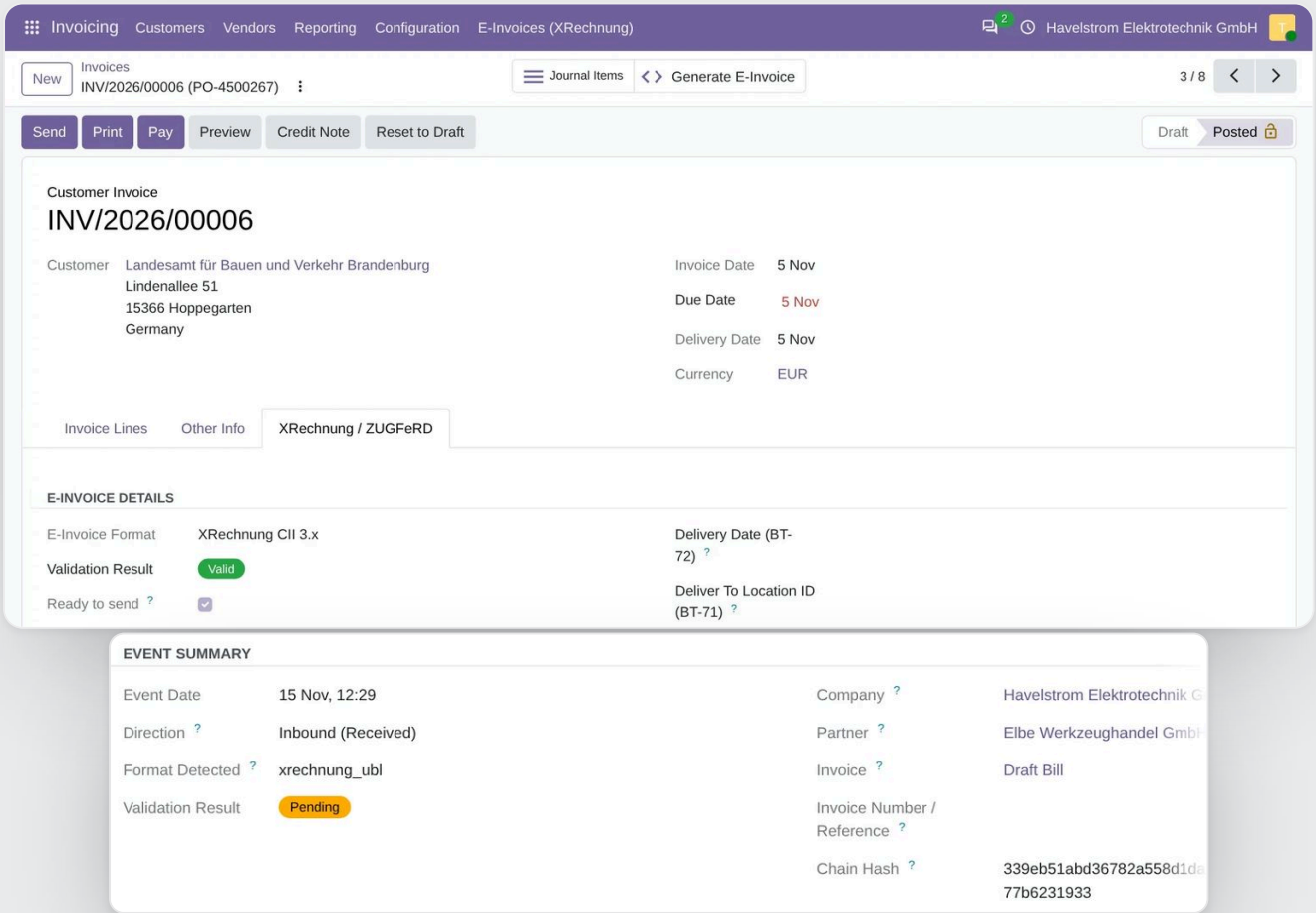
MODULE GUIDE · E-INVOICING & TAX

XRechnung & ZUGFeRD for Odoo

XRechnung and ZUGFeRD from the Odoo invoice, validated with the KoSIT rules in FlexigoTech Cloud. They stay attached and the invoice email carries them.

Odoo 17 · 18 · 19 · 20 | 14-day trial, no card | Edition of 19-11-2026



Real Odoo 20 screenshot. One validated invoice with its XRechnung / ZUGFeRD tab and the audit log with one line for each generation and each read.

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This guide describes version 20.0.1.3.13 of the module (Odoo branch 20.0, commit cefeb40d7). Everything in it comes from its published code, the platform's official documentation or real screenshots.

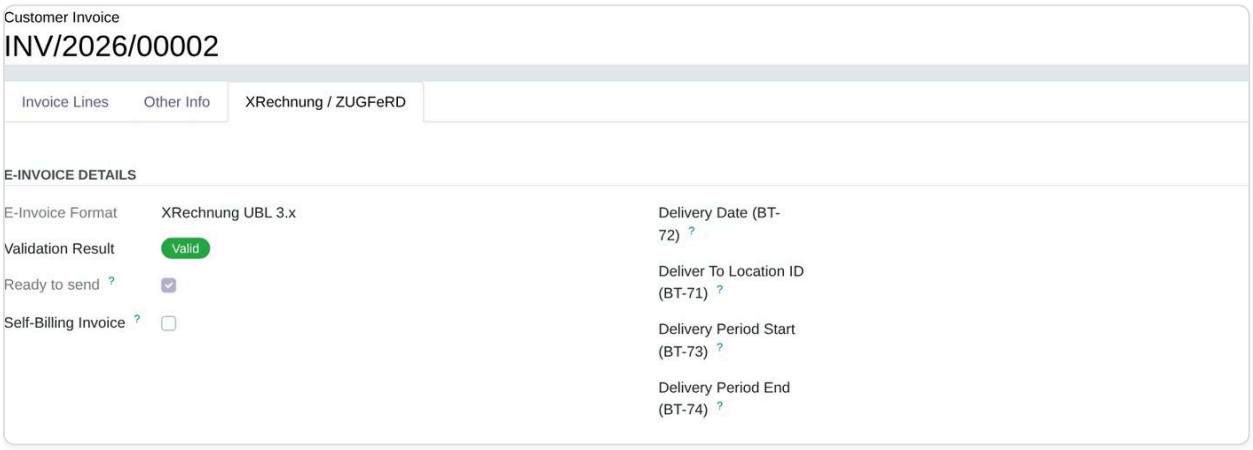
The screenshots come from a test Odoo 20 database, with a made-up company and data and no real connection to FlexigoTech Cloud. The module also has a version for Odoo 17, 18 and 19.

1 Who it is for and what it solves

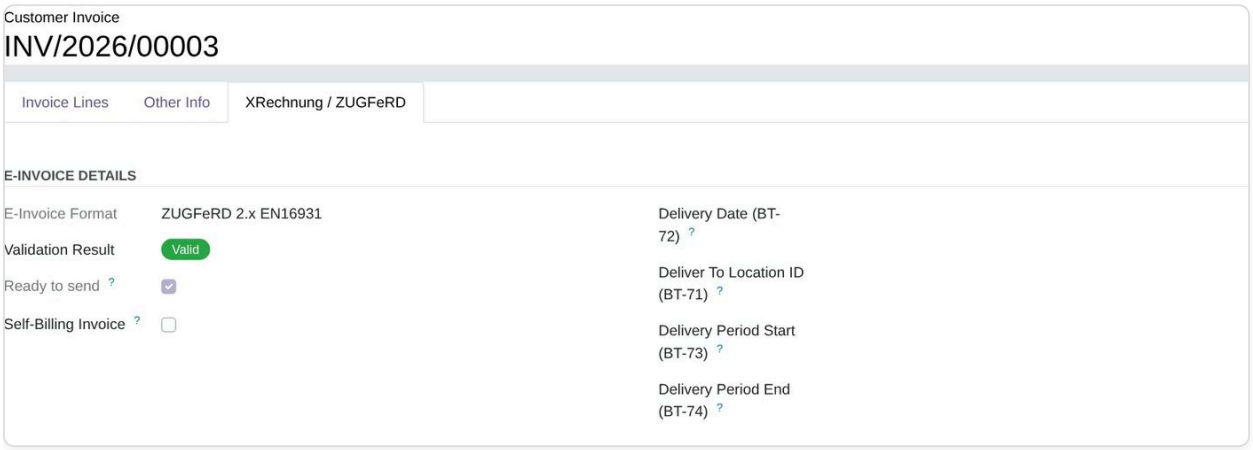
> The module requires a FlexigoTech Cloud subscription, with a 14-day trial and no card needed. It is the service that validates your e-invoices against the KoSIT rules.

Odoo 18, 19 and 20 already generate XRechnung in UBL and ZUGFeRD out of the box. This module generates them on its own, including XRechnung in CII, and adds a prior data check, the official KoSIT validation in FlexigoTech Cloud with a signed report, and an audit log that cannot be changed or deleted from Odoo.

With the module, the e-invoice is generated from the Odoo invoice itself. You click **Generate E-Invoice** on a posted customer invoice or credit note, or use the batch wizard. The module first checks the data that XRechnung requires, generates the file, attaches it to the invoice, where it cannot be deleted, sends it to FlexigoTech Cloud for validation, and records the result in the **XRechnung / ZUGFeRD** tab and in the audit log.



- **Real Odoo 20 screenshot.** Customer invoice with the **XRechnung / ZUGFeRD** tab in XRechnung UBL 3.x format, validated and **Ready to send**.



- **Real Odoo 20 screenshot.** Invoice in ZUGFeRD 2.x EN16931 format, validated and **Ready to send**.

It generates XRechnung in CII or UBL, which is an XML file, and ZUGFeRD with the EN16931 or EXTENDED profile, which is the Odoo invoice PDF with the CII XML embedded, converted to PDF/A-3. A credit note comes out as a credit note.

What changes day to day

- Before generating, the module checks the company's IBAN, phone and email, and the customer's VAT number and email. If anything is missing, it generates nothing and gives you the list.

- The file is attached to the invoice and cannot be deleted. If you generate again, a new file is created.
- The **XRechnung / ZUGFeRD** tab shows the format, the validation result and the errors, if any. Only an invoice with a valid report is **Ready to send**.
- The **Xrechnung Manager** group generates in batches from **Batch Generate E-Invoices**, inside **E-Invoices (XRechnung)**.
- The first time for each company, an **Xrechnung Manager** accepts a screen that explains what is sent, where, and how long it is kept.

What it does not do

- It does not send the e-invoice on its own: not to the customer, not to a public authority, and not via Peppol. It stays attached to the invoice; if you send the invoice with the send button, the email carries it.
- Supplier invoices in XRechnung or ZUGFeRD are only read with the **Re-parse XML Attachment** button. They do not fill in the Odoo invoice: a reading report is left in **Parse Report**.
- ZUGFeRD EXTENDED is not validated.
- Almost all of its screens appear in English, even when Odoo is in German. The messages and labels from the official validation come translated, in Spanish, along with 27 more texts in Odoo 19 and 20 (36 in Odoo 18), in Spanish and German: among them, the label for the delivery location (BT-71), the threshold notice, the Leitweg-ID messages and the new messages from the pre-check.
- ZUGFeRD needs the fonttools Python package on the Odoo server; without it, ZUGFeRD is not generated and Odoo warns you.
- It does not choose XRechnung on its own for a B2G customer: it uses the format the customer has or, if none, the company's format.

Electronic invoicing in Germany

From 1 January 2025, companies established in Germany must be able to receive electronic invoices. There are no exceptions, and a mailbox is enough to receive them. This is stated in questions 8 and 12 of the German Federal Ministry of Finance (BMF) FAQ on e-invoicing.

For issuing there is a transition period, under § 27 Abs. 38 of the German VAT Act (UStG). Until 31 December 2026, any company may still issue invoices on paper or in another electronic format, such as a PDF by email; the PDF only if the customer accepts it. In 2027 this only applies to those whose total turnover in the previous year was at most 800,000 euros, and an EDI invoice that does not meet the e-invoice requirements may be used until the end of 2027 if the customer accepts it. After that, between companies established in Germany, the invoice must be electronic, except for exceptions such as invoices up to 250 euros gross or those of small businesses under the VAT exemption scheme (Kleinunternehmer).

According to the BMF, the common formats in Germany, XRechnung and ZUGFeRD from version 2.0.1, except the MINIMUM and BASIC-WL profiles, meet the e-invoice requirements. XRechnung is an XML file. ZUGFeRD is a PDF/A-3 that carries the same data in XML inside; if the PDF and the XML do not match, the XML data prevails. Validating the invoice is not a requirement for it to be valid for tax purposes; according to the BMF, it helps avoid errors.

Invoicing the federal public administration electronically has been mandatory since 27 November 2020, under the E-Rechnungsverordnung (ERechV); each Land has its own rules. XRechnung is the e-invoicing standard for public administration published by KoSIT, and its version 3.0, the one the module generates, has been in force since 1 February 2024 and will remain so at least until 31 July 2027. The Leitweg-ID is only needed when invoicing a public administration; between companies, a placeholder such as "-" is enough in the BT-10 field.

2 The module in figures

17, 18, 19 and 20
Odoo versions with the module published

14
days of FlexigoTech Cloud trial

3
formats it generates: XRechnung CII, XRechnung UBL and ZUGFeRD

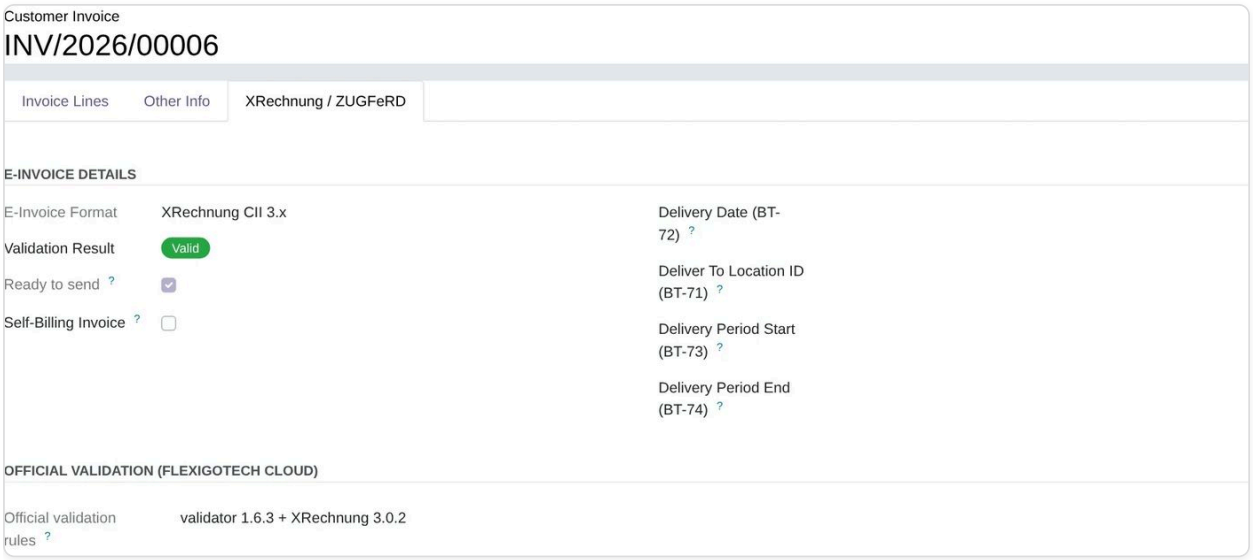
18
standard UNECE units

5683
lines of code in Odoo 20, according to Odoo Apps

134-137
automated tests, depending on the Odoo version

It works on Odoo Community and Odoo Enterprise, on Odoo.sh or on your own server. It does not work on Odoo Online. Its dependencies are Community ones (base, account, mail, uom, l10n_de and, on Odoo 19 and 20, account_edi_ubl_cii) plus the connection module for FlexigoTech Cloud.

3 Where you see it in your Odoo



- **Real Odoo 20 screenshot.** Customer invoice with the **XRechnung / ZUGFeRD** tab: **Validation Result** at **Valid** and **Ready to send** in the status itself.

E-Invoices (XRechnung)	Menu under Invoicing that groups the module's own screens. It is visible to those with the **Xrechnung User** group; two of its entries also require **Xrechnung Manager**.
Audit Log	Opens the **E-Invoice Audit Log** list: one line for each e-invoice generated and for each supplier invoice read. The lines cannot be changed or deleted from Odoo.
Supplier Compliance	Opens the **Supplier Compliance** list: by supplier and month, how many posted supplier invoices are structured and how many are not, with their percentage.

UNECE Unit Mappings	Opens the **UNECE Unit Mappings** list: the mapping between each Odoo unit of measure and its UNECE code. Only the **Xrechnung Manager** group can see and change it.
Batch Generate E-Invoices	Opens the **Generate E-Invoices** wizard to generate the e-invoice for several customer invoices at once. Only the **Xrechnung Manager** group can open it.

Outside that menu, the module adds the **Generate E-Invoice** button and the **XRechnung / ZUGFeRD** tab on the invoice, the **E-Invoicing** tab on the contact, the **E-Invoicing (XRechnung/ZUGFeRD)** tab on the company form, the XRechnung / ZUGFeRD page in Settings, and a daily scheduled task, **XRechnung: Refresh Supplier Compliance Statistics**. On installation, only the administrator is in both groups: other users must be given them in Settings › Users. The **Generate E-Invoice** button does not require a group.

4 What you need before you start

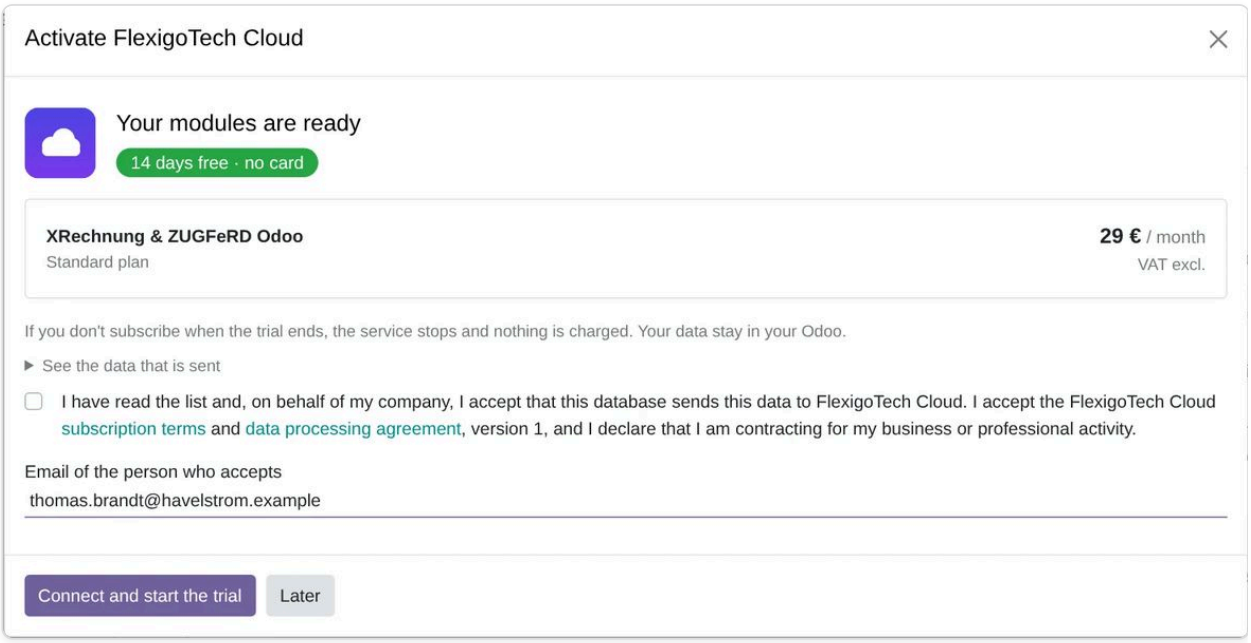
- Odoo 17, 18, 19 or 20, on Odoo.sh or on your own server. It cannot be installed on Odoo Online.
- The Invoicing app. The module also installs Odoo's German localisation, l10n_de.
- If you are going to generate ZUGFeRD, the fonttools Python package on the Odoo server: without it, ZUGFeRD is not generated and Odoo warns you.
- The data the pre-check asks for: your company's IBAN, telephone and email, and each customer's VAT number, email and country. For XRechnung, also the reference each customer gives you (BT-10). And a tax on each invoice line, except for a small business (§ 19 UStG).
- Who will get the **Xrechnung User** and **Xrechnung Manager** groups. On installation, only the administrator has them.
- The FlexigoTech Cloud subscription or its 14-day trial. It is the service that validates your e-invoices.

> The module does not send the e-invoice on its own: not to the customer, not to a public authority, and not via Peppol. It stays attached to the Odoo invoice and you send it; if you use the invoice's send button, the email carries it.

It is installed like any third-party Odoo module, on Odoo.sh or on your server. Odoo installs at the same time `flexigotech_cloud`, the FlexigoTech Cloud connection, and the apps it depends on: Invoicing.

5 The FlexigoTech Cloud trial

1. **Click Activate in the top bar**
   It appears as soon as you install the module. It opens the **Activate FlexigoTech Cloud** window, with the Standard plan and its 14 days free, no card needed.



- **Real Odoo 20 screenshot.** The activation window: read the list of data, tick the box and enter your email.

2 **Accept and enter your email**

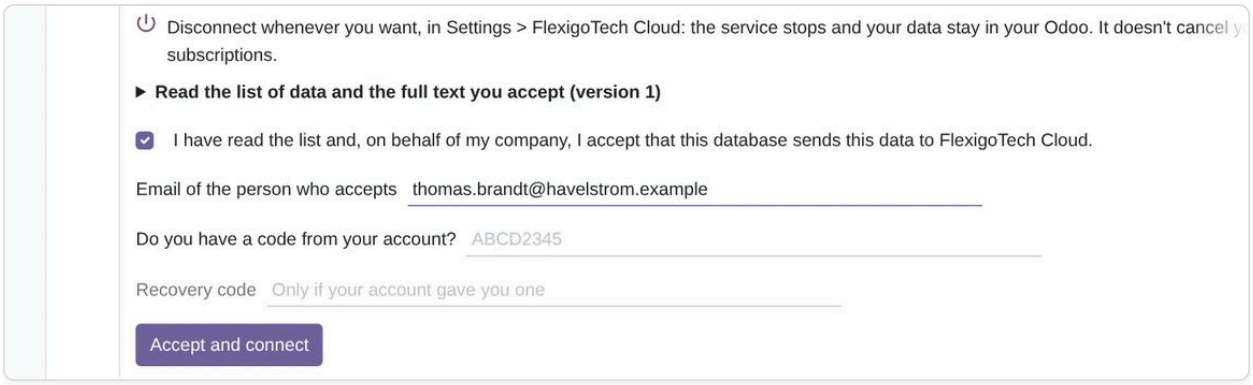
Tick "I have read the list and, on behalf of my company..." (it includes the subscription terms and the data processing agreement) and enter the **Email of the person who accepts**.

3 **Click Connect and start the trial**

Odoo registers the database with FlexigoTech Cloud and starts the module's trial. If you want to leave it for later, **Later** closes the window.

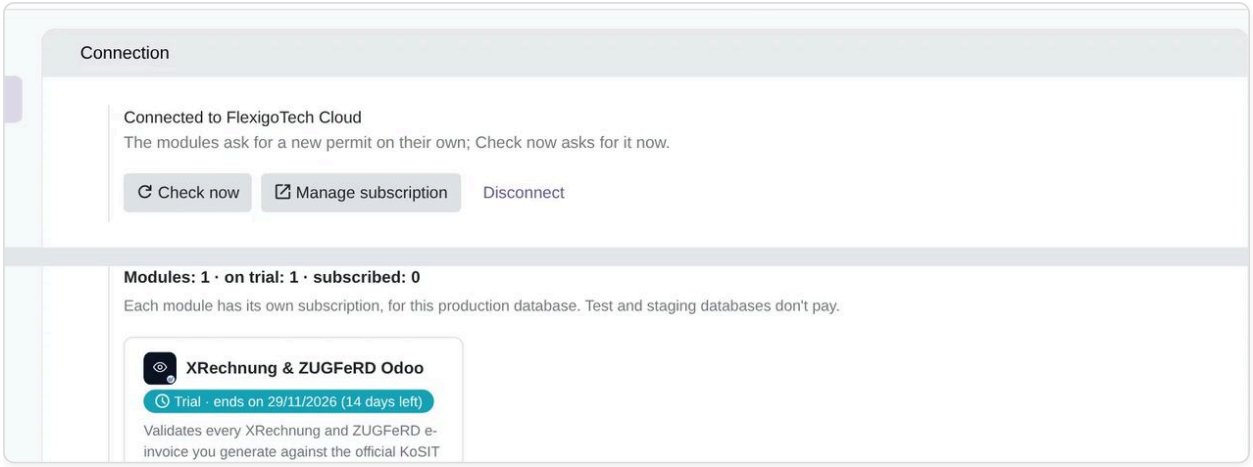
The same, from Settings

In **Settings › FlexigoTech Cloud** is the full list of what the database sends. Tick the box, enter the email and click **Accept and connect**. If you already have an account at app.flexigotech.com, the field **Do you have a code from your account?** links the database to it (the code is valid for 10 minutes).



- **Real Odoo 20 screenshot.** Settings › FlexigoTech Cloud before connecting: the ticked box, the email and **Accept and connect**.

With the database connected, the **Modules** block shows each module with its status: **On trial** and the date it ends, **Subscribed**, etc. From there you choose the plan (Standard or Pro, monthly or yearly) and click **Subscribe**: payment is made on the Stripe page, outside Odoo.



- **Real Odoo 20 screenshot.** Settings › FlexigoTech Cloud with the database connected and the module on trial.

Prices exclude VAT. If you do not subscribe when the trial ends, the service stops and nothing is charged; your data stays in your Odoo. **Check now** requests the permission immediately (otherwise the module renews it by itself every 6 hours).

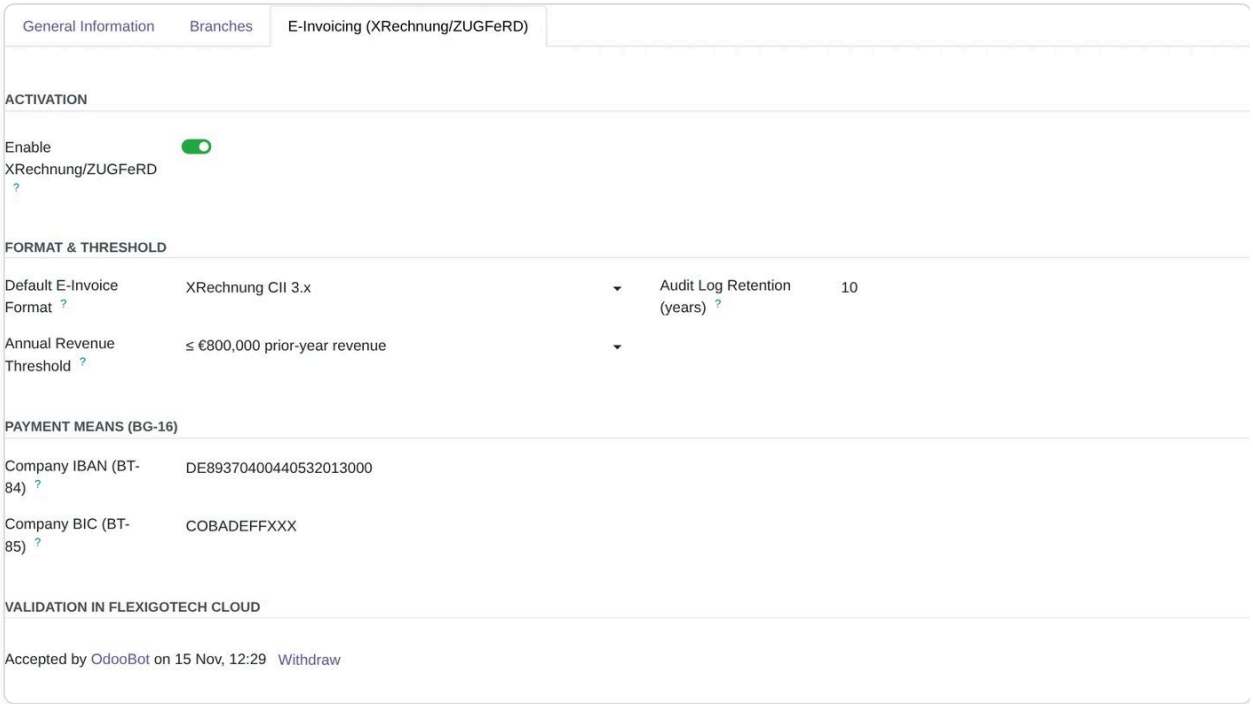
> You cannot start a trial on a neutralised copy (staging) or on a database with demo data: Settings says so with "This database is a neutralised copy or has demo data, so trials can't be started here."

MODULE GUIDE · XRECHNUNG & ZUGFERD

6 Connecting your company step by step

1 Open the module settings

Go to Settings › XRechnung / ZUGFeRD, or to the **E-Invoicing (XRechnung/ZUGFeRD)** tab of the company form, and tick **Enable XRechnung/ZUGFeRD**. Without this box, the prior check does not allow anything to be generated.



- **Real Odoo 20 screenshot.** The **E-Invoicing (XRechnung/ZUGFeRD)** tab of the company form, with **Activation** and **Payment Means (BG-16)**.

2 Choose the format and payment details

In **Default E-Invoice Format** you choose between **XRechnung CII 3.x**, **XRechnung UBL 3.x** and the two ZUGFeRD formats in the list. Each customer may have a different format. Enter **Company IBAN (BT-84)** and, if you use it, **Company BIC (BT-85)**. Payment is shown as a SEPA bank transfer with those details.

3 Check the company's phone and email

XRechnung requires a seller contact. If the company's phone or email is missing, the prior check does not generate anything.

4 Give the groups to those who need them

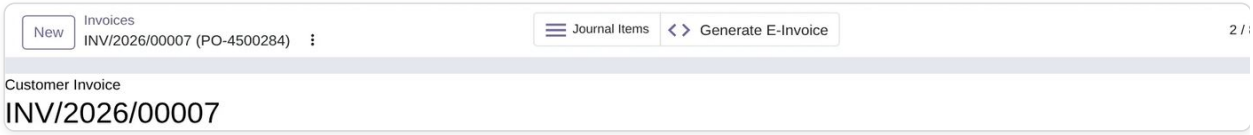
Go to Settings › Users. **Xrechnung User** gives the **E-Invoices (XRechnung)** menu; whoever is going to generate in batches, change the units or accept the consent also needs **Xrechnung Manager**. The **Generate E-Invoice** button on the invoice does not require any group.

5 Fill in each customer's tab

On the customer form, **E-Invoicing** tab, choose the format in **E-Invoice Format Preference** and enter in **Buyer Reference (BT-10)** the reference or order number they give you. XRechnung requires it; if the customer gives you none, "-" is enough.

6 Generate the first e-invoice

Open a posted invoice and click **Generate E-Invoice**. The consent screen "Validate e-invoices in FlexigoTech Cloud" appears. It says what is sent, where, for what purpose, how long it is kept and when. An **Xrechnung Manager** accepts it with **Accept and generate**, which records who and when on the company and generates the e-invoice.

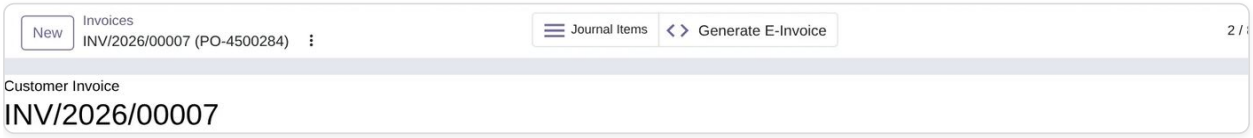


- **Real Odoo 20 screenshot.** Once an invoice is posted, use the **Generate E-Invoice** button.

> Only an **Xrechnung Manager** of the company can accept or withdraw the consent. It is withdrawn with **Withdraw** in the company's **E-Invoicing (XRechnung/ZUGFeRD)** tab. From then on nothing is sent until someone accepts again.

After that, each e-invoice you generate, except ZUGFeRD EXTENDED ones, is sent for validation, and only one with a valid report is **Ready to send**. A scheduled task, **XRechnung: Refresh Supplier Compliance Statistics**, runs every day and updates the supplier invoice statistics.

7 Generating the e-invoice from the Odoo invoice

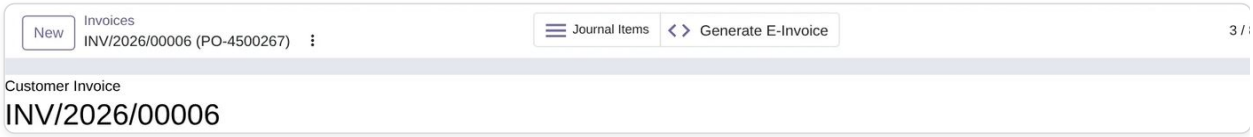


- **Real Odoo 20 screenshot.** Posted customer invoice with the **Generate E-Invoice** button at the top.

The button only appears on customer invoices and credit notes in posted status. When you click it, the module chooses the format, checks the data and generates the file. The first time for each company, the FlexigoTech Cloud consent screen opens first.

1. **Press Generate E-Invoice**

   The format comes from the customer's **E-Invoicing** tab; if it has none, the company's; if that has none either, XRechnung CII.

   - **Real Odoo 20 screenshot.** Posted invoice with the **Generate E-Invoice** button in the header.

2. **Fix what is missing**

   If any data is missing, nothing is generated and "E-invoice validation failed:" appears with the list.

3. **Accept the consent if asked**

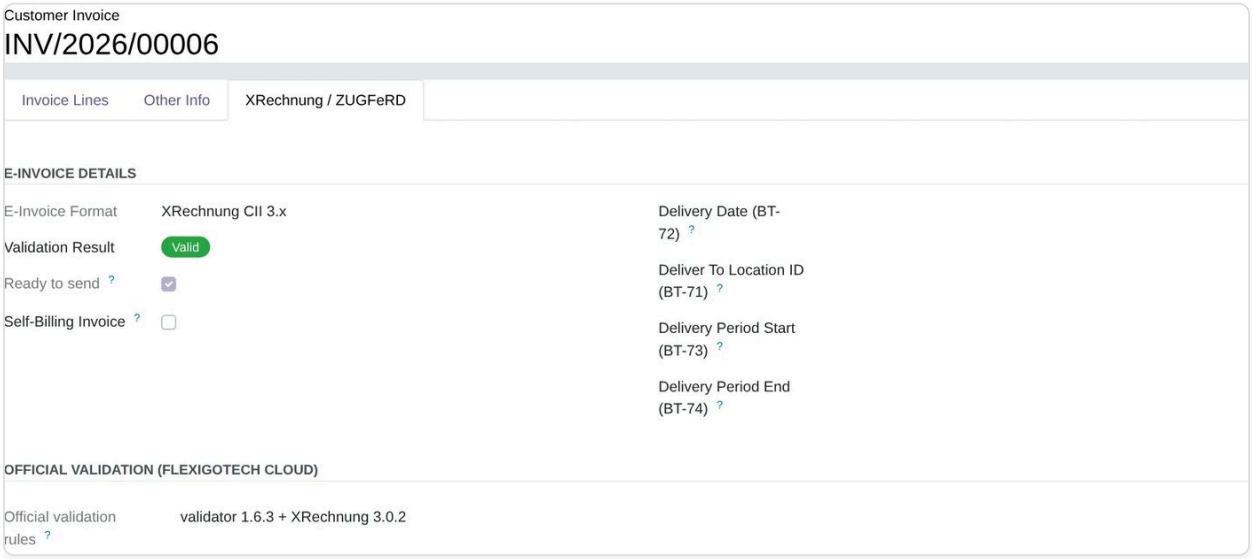
   Only the first time for each company, and it is accepted by an Xrechnung Manager.

4. **Read the notice**

   It shows the file name and whether it is ready to send. The file is named after the invoice, ending in _zugferd.pdf for ZUGFeRD or _xrechnung.xml for XRechnung.

The file stays attached to the invoice and cannot be deleted. You can generate again, and each time a new file is created. The module does not send it on its own: you send it, and if you use the invoice's send button, the email carries it.

The XRechnung / ZUGFeRD tab



- **Real Odoo 20 screenshot.** **XRechnung / ZUGFeRD** tab of an invoice with result **Valid** and **Ready to send**.

E-Invoice Format	The format used to generate the last file.
Validation Result	**Valid**, **Invalid** or **Not Validated**.
Ready to send	Ticked only if the official KoSIT validation in FlexigoTech Cloud returned **Valid** with a signed report.
Validation Errors	The errors returned by the validation.
Official validation rules	The rules and version against which the validation was run.
Official validation report (signed)	The signed validation report.
Self-Billing Invoice	Marks the invoice as a self-billing invoice.
Delivery Date (BT-72), **Delivery Period Start (BT-73)** and **Delivery Period End (BT-74)**	The delivery and period dates that go on the e-invoice.

> If the official validation was not run, the file is attached, but it is not ready to send. This happens with ZUGFeRD EXTENDED, which is not validated, with **Generate without sending**, and when FlexigoTech Cloud does not respond.

What happens when you press the button

The button only appears on posted customer invoices and credit notes. With the chosen format, the module runs the pre-check. If everything is in order, the first time for each company it opens the consent screen. After that it generates the file, attaches it, sends it to FlexigoTech Cloud for validation, fills in the **XRechnung / ZUGFeRD** tab and records a line in the log.

What each format generates

- **XRechnung CII 3.x** and **XRechnung UBL 3.x**: an XML file.

- ZUGFeRD with the EN16931 or EXTENDED profile: the Odoo invoice PDF with the CII XML embedded, converted to PDF/A-3. ZUGFeRD requires the fonttools Python package on the server.
- A credit note is issued as a credit note. With **Self-Billing Invoice** ticked, it is issued as a self-billing invoice.
- Payment goes as a SEPA transfer using the company's IBAN and BIC.
- Units carry their UNECE code.

When it will not generate

If something is missing, nothing is generated and "E-invoice validation failed:" appears with the list of what is missing. These messages appear in English:

- «XRechnung/ZUGFeRD is not enabled for this company.»
- «Only posted invoices can be exported as XRechnung.»
- «Only customer invoices and credit notes can be exported.»
- «Company IBAN (BT-84) is required for XRechnung generation.»
- «Customer VAT number is required for B2B XRechnung.»
- «Company phone (BT-42) is required: XRechnung needs a seller contact (BG-6).»
- «Company email (BT-43, BT-34) is required: XRechnung needs the seller contact and electronic address.»
- «Customer email (BT-49) is required: XRechnung needs the buyer electronic address.»
- «B2G partner requires a Leitweg-ID (BT-10).»

The new pre-check messages come translated, in Spanish and in German. They ask for the buyer reference (BT-10) on the XRechnung of a customer that is not a public authority, the customer's country and a tax on each invoice line, except for a small business (§ 19 UStG).

If generation fails for another reason, «Failed to generate e-invoice:» appears with the cause; for example, when fonttools is missing for ZUGFeRD.

Validation statuses

Valid with **Ready to send** ticked	FlexigoTech Cloud validated the file against the official KoSIT rules and returned a signed report. The notice says it is ready to send.
Invalid	The official validation found errors, which appear in **Validation Errors**. The notice says it is not ready to send.
Not Validated	The validation was not run. The notice gives the reason and says it is not ready to send.

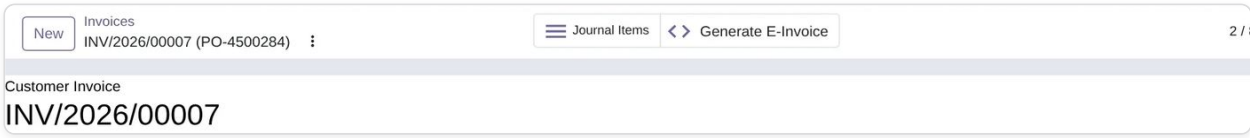
The reasons the validation is not run are shown in the notice:

- ZUGFeRD EXTENDED format, which has no official validation.
- FlexigoTech Cloud did not respond.
- The validation report could not be verified, so it was not applied.
- You chose **Generate without sending** on the consent screen.

An end-to-end example

1 **Open the posted invoice**

In **Invoicing › Customers › Invoices**, the posted invoice shows the **Generate E-Invoice** button at the top.



- **Real Odoo 20 screenshot.** Posted invoice ready to generate.

2 **Press the button**

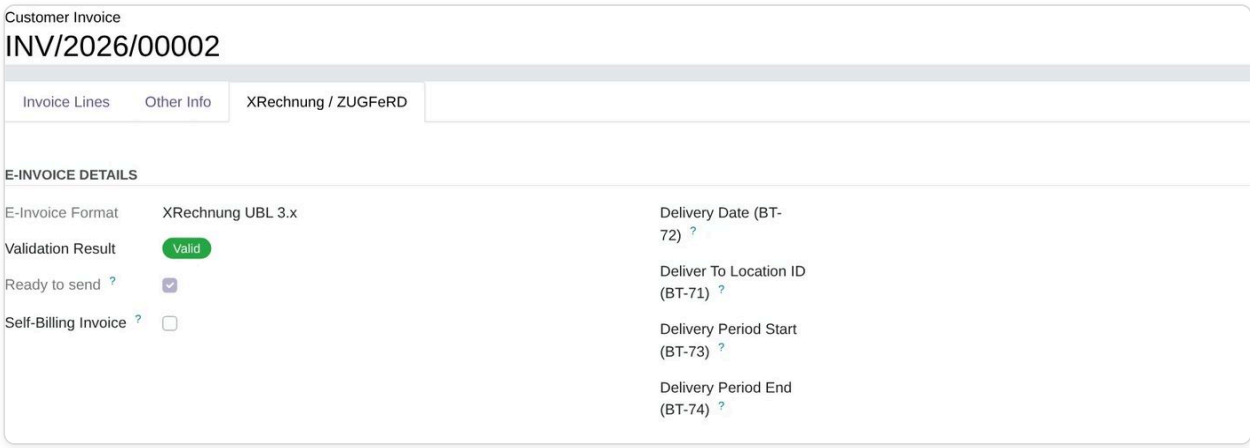
A field is missing and «E-invoice validation failed:» appears with the list. You correct the record and press the button again.

3 **Generate again**

The attached file is created and sent for validation. The notice shows the file name and whether it is ready to send.

4 **Check the XRechnung / ZUGFeRD tab**

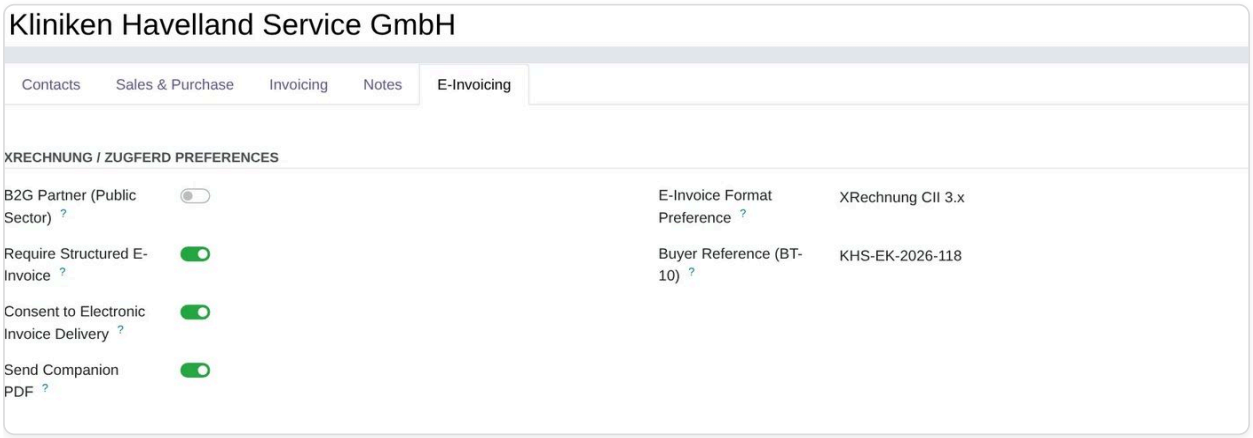
With **Valid** and **Ready to send** both showing, the file is ready and you send it yourself. With **Invalid**, you read **Validation Errors**, correct the invoice or the customer record, and generate again.



- **Real Odoo 20 screenshot.** **XRechnung / ZUGFeRD** tab with a **Valid** result.

> **Deliver To Location ID (BT-71)** is an identifier of the delivery location, such as its GLN, and it goes on the e-invoice. Do not enter a name or an address there.

8 XRechnung CII, XRechnung UBL or ZUGFeRD: which format for each customer



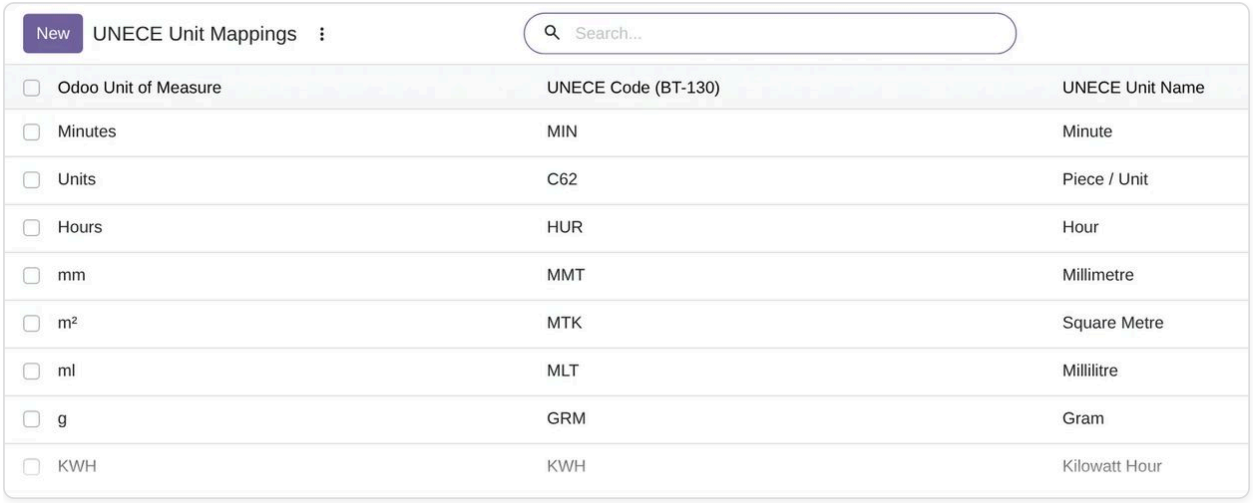
- **Real Odoo 20 screenshot.** Customer record with **E-Invoice Format Preference** set to **XRechnung CII 3.x** and its **Buyer Reference (BT-10)**.

If the customer has a format chosen in **E-Invoice Format Preference**, that one is used. If you leave it on **Use Company Default**, the company's **Default E-Invoice Format** is used, which is set to **XRechnung CII 3.x**. The four formats are **XRechnung CII 3.x**, **XRechnung UBL 3.x**, **ZUGFeRD 2.x EN16931** and **ZUGFeRD 2.x EXTENDED**. The company's default is changed in **Settings › Users & Companies › Companies**, tab **E-Invoicing (XRechnung/ZUGFeRD)**, group **Format & Threshold**.

E-Invoice Format Preference	That customer's own format. If empty, the company's format applies.
Default E-Invoice Format	The company's format for customers who have no format of their own.
Buyer Reference (BT-10)	The reference or purchase order number the buyer gives you. It goes in BT-10, which XRechnung requires.
Company IBAN (BT-84) and Company BIC (BT-85)	The company's account for payment. The module uses them in the payment means group (BG-16).

UNECE units

Each invoice line carries the UNECE code of its unit of measure (BT-130). The mapping is in the **UNECE Unit Mappings** list, inside the **Invoicing › E-Invoices (XRechnung)** menu. A unit with no mapping is shown as C62 (unit). If there is both a company mapping and a global one for the same unit, the company one applies.



- **Real Odoo 20 screenshot.** **UNECE Unit Mappings** list with the Odoo unit, its **UNECE Code (BT-130)** and its **UNECE Unit Name**.

> The units list can only be viewed and changed by an Xrechnung Manager.

Which format is used and why

First, **E-Invoice Format Preference** on the customer's contact is checked. If it is set to **Use Company Default**, the company's **Default E-Invoice Format** is used, which is set to **XRechnung CII 3.x**. The contact offers five options: the four formats plus **Use Company Default**. The company offers only the four formats.

What changes on the contact depending on the customer

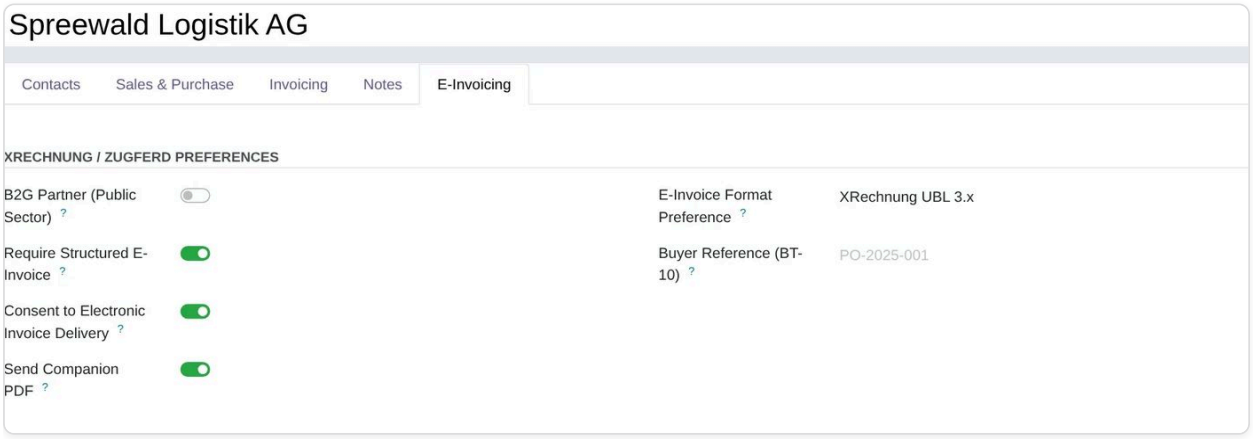
B2G Partner (Public Sector)	Marks the customer as a German public administration. It shows the **Leitweg-ID (BT-10)** field and a blue notice, and the pre-check will not allow generating the invoice for this customer if it has no Leitweg-ID.
Leitweg-ID (BT-10)	Only shown with the checkbox above ticked, and goes in BT-10. On saving, the module checks its format and its check digit against the KoSIT specification; if they do not match, it does not save it.
Buyer Reference (BT-10)	For a customer that is not an administration and gives you a reference or purchase order number. It also goes in BT-10.
Consent to Electronic Invoice Delivery	Ticked by default. If you untick it, the contact's **E-Invoicing** tab shows a yellow notice. In addition, when you use the send button on the invoice, a warning line is recorded in the **Audit Log**. Sending shows no warning and goes ahead.

Company rules

- **Enable XRechnung/ZUGFeRD** is unticked by default. Without it, the pre-check will not allow generation, and the daily supplier task does not count anything for that company.
- **Audit Log Retention (years)** is set to 10 and does not accept less than 10. Changing it does not delete or modify anything in the log.
- **Annual Revenue Threshold** sets from when a domestic B2B invoice over 250 EUR must be electronic: from 1 January 2027 for companies with more than 800,000 EUR of revenue in the previous year, and from 1 January 2028 for all. If it applies and you have not generated the e-invoice, the invoice shows a yellow notice. It does not change what is generated.

Example

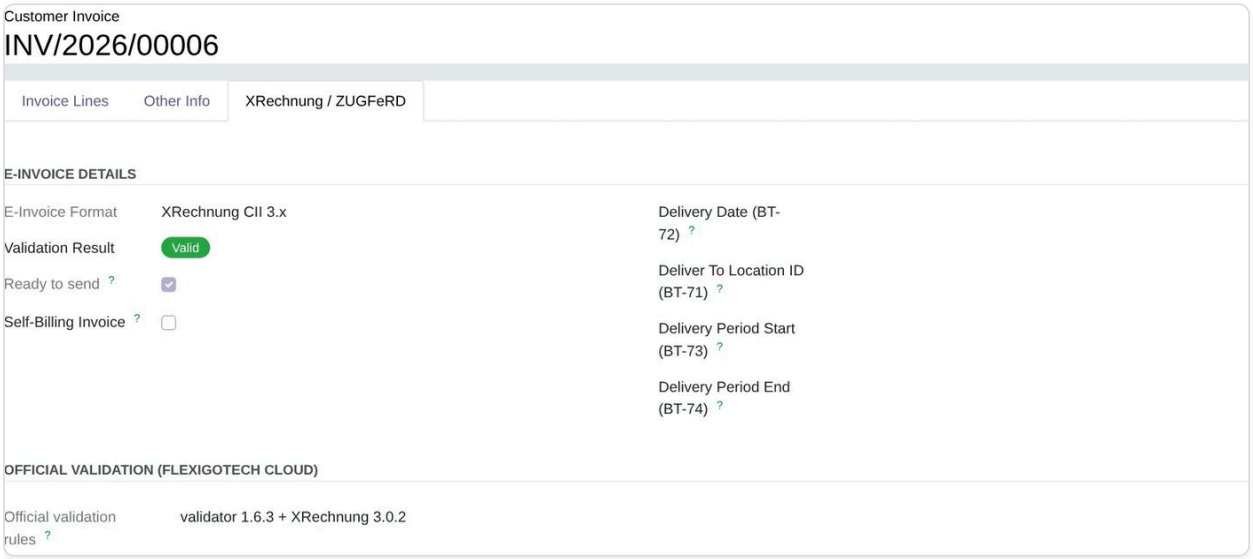
Havelstrom Elektrotechnik GmbH's **Default E-Invoice Format** is **XRechnung CII 3.x**. Its customer Kliniken Havelland Service GmbH has **E-Invoice Format Preference** set to **XRechnung CII 3.x** and fills in **Buyer Reference (BT-10)**, so its invoice goes out in that format with that reference. Spreewald Logistik AG has **XRechnung UBL 3.x** selected and has no **Buyer Reference (BT-10)**: the pre-check will not let you generate its invoice in UBL until you enter a reference.



- **Real Odoo 20 screenshot.** Customer with **XRechnung UBL 3.x** and no **Buyer Reference (BT-10)**: the pre-check will not let you generate its XRechnung.

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9 Official KoSIT validation and «Ready to send»



- **Real Odoo 20 screenshot.** The **XRechnung / ZUGFeRD** tab of an invoice with **Validation Result** set to **Valid** and **Ready to send** ticked.

On generation, FlexigoTech Cloud returns a signed report and the module checks it. Only if the result is **Valid** does the invoice become **Ready to send**. The data on the **XRechnung / ZUGFeRD** tab is filled in when you press the **Generate E-Invoice** button.

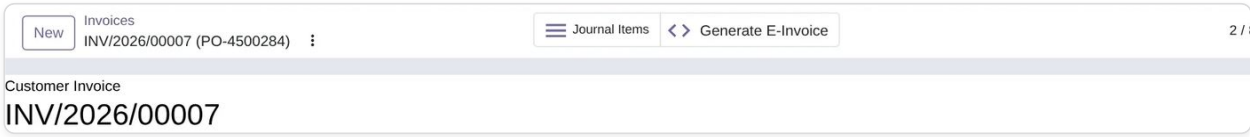
Validation Result	**Valid**, **Invalid** or **Not Validated**.
Ready to send	Tick box, ticked only if the last generated e-invoice passed the official validation.

Validation Errors	The rule errors, one line each.
Official validation rules	The rule set and its version against which the last generated document was validated.
Official validation report (signed)	The KoSIT signed report on the generated XML.

First time for each company

1. **Press Generate E-Invoice**

   On the company's first e-invoice with the service active, the consent screen appears.



   - **Real Odoo 20 screenshot.** Once an invoice is posted, use the **Generate E-Invoice** button.

2. **Read what leaves, where it goes and how long it is kept**

   The screen explains what is sent, to which servers, for what purpose and how long it is retained.

3. **Choose an option**

   Accept and generate records who accepts and when, and generates the e-invoice. **Generate without sending** generates it this time without sending it for validation. **Cancel** closes the screen.

Only an XRechnung Manager of the company can accept. The **Accept and generate** button is not shown if the person opening the screen cannot accept. Consent is withdrawn with **Withdraw** on the company's **E-Invoicing (XRechnung/ZUGFeRD)** tab.

If it is not validated

If validation does not take place, the invoice is **Not Validated** and **Ready to send** is not ticked. The notice says why: a format without validation, **Generate without sending**, FlexigoTech Cloud not responding, or its report failing verification. If the result is **Invalid**, the reasons appear in **Validation Errors**.

> ZUGFeRD EXTENDED is not validated: it is always **Not Validated**. The module does not send it on its own: it stays attached to the invoice and you send it yourself.

What is validated and what is not

The XML of every generated XRechnung or ZUGFeRD EN16931 (for ZUGFeRD, the one embedded in the PDF) is sent signed to FlexigoTech Cloud, which validates it against the KoSIT rules. XRechnung CII, XRechnung UBL and ZUGFeRD EN16931 are validated. ZUGFeRD EXTENDED is not validated. The module ships no local rules: without a signed report there is no validation.

The three results

Valid	The signed report states that the document complies with the rules. This is the only case in which the invoice is **Ready to send**.

Invalid	KoSIT found errors. They appear in **Validation Errors** as [level] rule (location), one line each, and the invoice is not ready to send.
Not Validated	Validation did not take place, or its report could not be applied. This is the starting state of every document and the state of a supplier invoice read without problems.

When and why it is not validated

SITUATION	WHAT YOU SEE
ZUGFeRD EXTENDED format	"This format has no official validation in FlexigoTech Cloud: the e-invoice was not validated."
The cloud does not respond	"FlexigoTech Cloud did not answer: the e-invoice was not validated."
The report does not verify	"The validation report from FlexigoTech Cloud does not verify, so it was not applied: the e-invoice was not validated."
You chose Generate without sending	"It was generated without sending it to FlexigoTech Cloud, as chosen on the consent screen: the e-invoice was not validated."
No consent	"Nothing is sent to FlexigoTech Cloud until an XRechnung Manager of the company accepts its consent screen (generate the e-invoice to see it): the e-invoice was not validated."

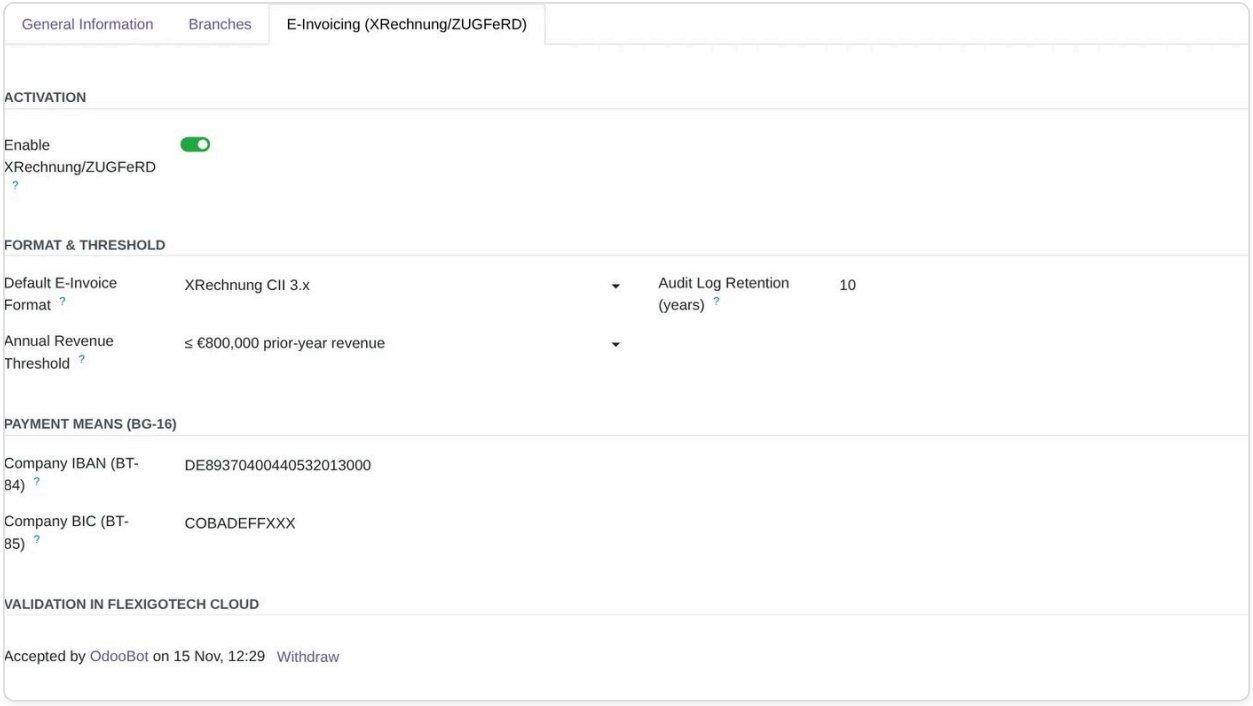
To accept a report, the module checks that it comes from this module, for the same format and with the same SHA-256 fingerprint of the document. If any of the three fails, it is not applied.

The consent screen

It appears when the first e-invoice of a company is generated with the service active. It explains what is sent: the XML with seller and buyer (names, addresses, tax ID, routing identifiers, emails and phone numbers), lines, amounts, taxes, payment details such as the bank account, and the invoice note. It goes to FlexigoTech Cloud, on servers rented from Netcup in Germany, and not to the buyer or to any authority, only to check it against the official XRechnung and EN 16931 rules from KoSIT and return a signed report.

The file is not stored: it is checked in memory. For each validation, an entry is kept for 12 months without the content: date, base, module, size, result, number of errors and SHA-256 fingerprint. Validation is repeated each time the e-invoice is generated.

Only an XRechnung Manager of the company can accept. **Accept and generate** records who and when, and it is shown on the company's **E-Invoicing (XRechnung/ZUGFeRD)** tab next to **Withdraw**. **Generate without sending** generates it this time without sending it for validation: it is **Not Validated** and not ready to send.



- **Real Odoo 20 screenshot.** The company's **E-Invoicing (XRechnung/ZUGFeRD)** tab, with **Validation in FlexigoTech Cloud** and **Withdraw**.

The invoice fields and tab

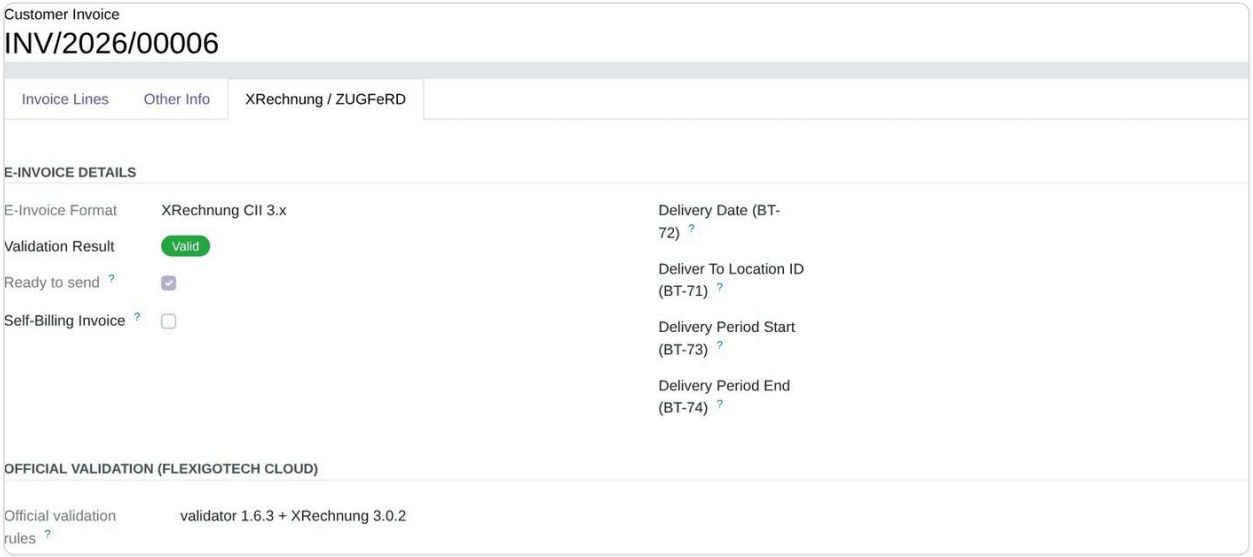
The result is on the **XRechnung / ZUGFeRD** tab of the invoice, which has the groups **E-Invoice Details**, **Validation Errors** and **Official Validation (FlexigoTech Cloud)**. The first holds **E-Invoice Format**, **Validation Result** and **Ready to send**. The group **Official Validation (FlexigoTech Cloud)** contains **Official validation rules** and **Official validation report (signed)**.

Before generating

If any data is missing, nothing is generated and "E-invoice validation failed:" appears with the list. The warnings include "Company IBAN (BT-84) is required for XRechnung generation.", "Customer email (BT-49) is required: XRechnung needs the buyer electronic address." and "B2G partner requires a Leitweg-ID (BT-10).". Only after passing this check does the official validation take place.

An end-to-end example

A customer invoice is posted. You press **Generate E-Invoice** and it is produced in the customer's format, for example **XRechnung CII 3.x**. The **XRechnung / ZUGFeRD** tab shows **Validation Result** as **Valid** and **Ready to send** ticked. With **Official validation rules** and the signed report filled in, the invoice is validated, and the file stays attached: you send it.



- **Real Odoo 20 screenshot.** An invoice with **Validation Result** as **Valid** and **Ready to send** ticked.

Another invoice, the one for Spreewald Logistik AG, is not generated: the customer has no **Buyer Reference (BT-10)** and the pre-check stops with "Customer Buyer Reference (BT-10) is required for an XRechnung (BR-DE-15): the reference the customer gave you for its invoices, in the customer form." Enter the reference in the customer form, even if it is just "-", and click **Generate E-Invoice** again.

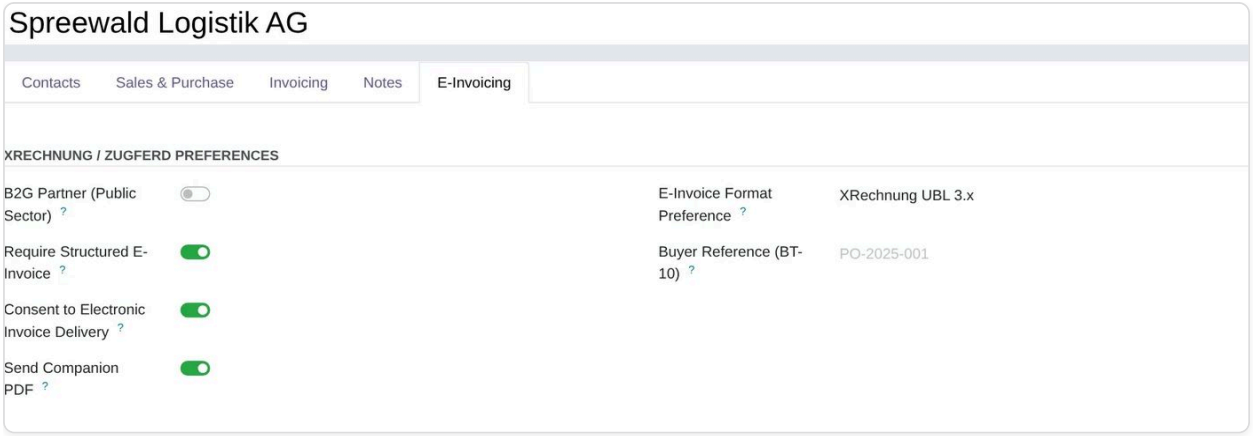
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10 The buyer reference (BT-10) and B2G customers

> The module does not send the invoice of a B2G customer to any public-sector portal: it stays attached to the invoice and you deliver it through the channel the body indicates.

The data is on the contact, in **Invoicing › Customers › Customers**, **E-Invoicing** tab, group **XRechnung / ZUGFeRD Preferences**. You enter it manually.

B2G Partner (Public Sector)	Checkbox, unticked by default, for a customer that is a German public authority. When ticked, **Leitweg-ID (BT-10)** and a blue notice appear, and the pre-check requires the Leitweg-ID.
Leitweg-ID (BT-10)	Text. It is the routing identifier of the body receiving the invoice, and the module places it in BT-10. On saving it checks its format and its check digits: an incorrectly written one is not saved.
Buyer Reference (BT-10)	Text. For customers who are not public authorities: the reference you are given or their order number. It goes in BT-10, which XRechnung requires; if the customer gives you none, "-" is enough.
E-Invoice Format Preference	List. With **Use Company Default** the company's format is used. The other four options fix the format for this customer: **XRechnung CII 3.x**, **XRechnung UBL 3.x**, **ZUGFeRD 2.x EN16931** and **ZUGFeRD 2.x EXTENDED**.



- **Real Odoo 20 screenshot.** A B2B customer with an empty **Buyer Reference (BT-10)**: the pre-check will not let you generate its invoice in XRechnung.

1. **Open the customer contact**
   Go to **Invoicing › Customers › Customers** and open their record.

2. **Go to the E-Invoicing tab**
   The module's fields are in the group **XRechnung / ZUGFeRD Preferences**.

3. **Enter the reference and save**
   In **Buyer Reference (BT-10)**, the reference or order number the customer gives you; if they give none, "-".

4. **If it is a public authority, tick B2G Partner (Public Sector)**
   Leitweg-ID (BT-10) appears. Enter the one the body gave you and save: if its format or check digits do not match, Odoo will not let you save it and says what is wrong.

> If a B2G customer has no Leitweg-ID, the pre-check does not allow generating its e-invoice and "B2G partner requires a Leitweg-ID (BT-10)." appears. It also does not allow it if the one it has, saved with an earlier version of the module, does not pass the check digits.

How the Leitweg-ID is checked on saving

On saving the contact, the module strips leading and trailing spaces from the Leitweg-ID, converts it to uppercase, and checks that it follows the KoSIT Leitweg-ID 2.0.2 specification: first 2, 3, 5, 8, 9 or 12 digits; then, optionally, a hyphen and up to 30 letters or digits; and at the end a hyphen and the 2 check digits, calculated with ISO/IEC 7064 MOD 97-10, the same method as for IBAN. If something does not match, Odoo does not allow saving and the message says what is wrong: the format or the check digits, and in that case which one it expected. The specification's example, 04011000-1234512345-06, is saved; if you change the last digit, it is not.

Where each piece of data goes in the e-invoice

- The **Buyer Reference (BT-10)** goes in field BT-10, the buyer reference. XRechnung requires it: without it, the pre-check will not let you generate the XRechnung of a customer that is not a public authority.
- If the customer does not give you a reference, "-" is enough: according to the BMF, a marker like this is sufficient between businesses.
- For a B2G customer, BT-10 carries its **Leitweg-ID (BT-10)** as saved.
- The format in **E-Invoice Format Preference** only affects that customer's invoices.

What happens when generating the invoice of a B2G customer

Before generating, the pre-check looks at the Leitweg-ID of customers marked **B2G Partner (Public Sector)**. If they do not have one, nothing is generated and "B2G partner requires a Leitweg-ID (BT-10)." appears. If they have one saved with an earlier version of the module that does not pass the check digits, it is not accepted either: the message says which digit it expected. In both cases, correct the contact and press **Generate E-Invoice** again.

The other checkboxes on the tab

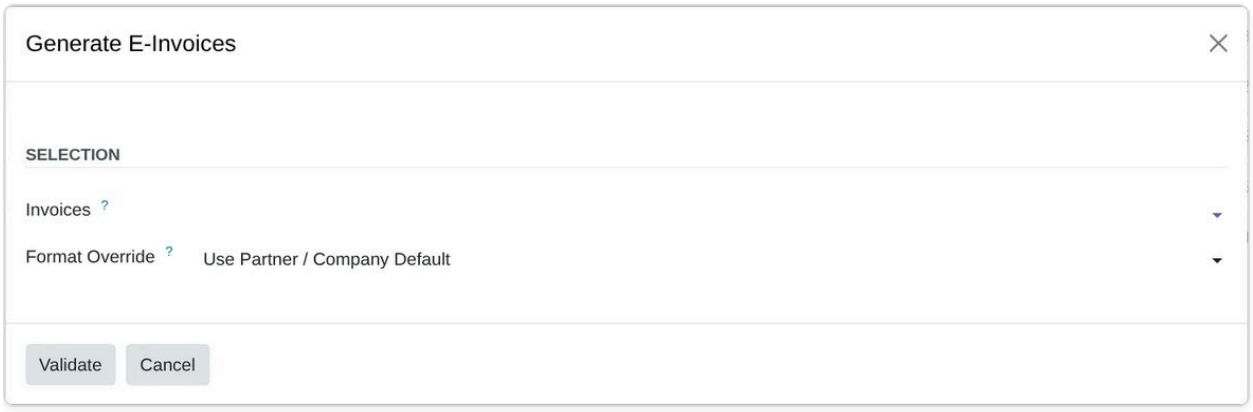
Consent to Electronic Invoice Delivery	Ticked by default. If you untick it, the contact's **E-Invoicing** tab shows a yellow warning and, when you use the invoice's send button, the module records a warning line in the **Audit Log**. No warning appears when sending and sending proceeds.
Require Structured E-Invoice	Unticked by default. It is for suppliers: when ticked, an invoice from that supplier cannot be confirmed until its XRechnung or ZUGFeRD has been read with **Re-parse XML Attachment**. The supplier statistics do not use it.
Send Companion PDF	Ticked by default. If you have generated the XRechnung, the email you send with the invoice's send button includes it and, with the box ticked, also the invoice PDF; unticked, the XRechnung goes alone. A ZUGFeRD always goes instead of the PDF, because it already is the invoice PDF with the XML inside.

End-to-end example

Kliniken Havelland Service GmbH gives you an order reference: it is in its **Buyer Reference (BT-10)** and its invoice comes out with it in BT-10. Spreewald Logistik AG has not given you one and the field is empty, so the pre-check will not let you generate its XRechnung e-invoice until you enter a reference, even if it is "-". On the invoice of a public authority marked as **B2G Partner (Public Sector)**, BT-10 carries its Leitweg-ID instead of the reference.

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11 Many invoices at once: the batch wizard



- **Real Odoo 20 screenshot.** The **Generate E-Invoices** wizard with the **Selection** group, the **Invoices** list and **Format Override**.

Where the invoices come from

You choose the invoices in the batch yourself: open the wizard from the menu **Invoicing › E-Invoices (XRechnung) › Batch Generate E-Invoices** and add them under **Invoices**. Only posted customer invoices and

credit notes are valid. The menu is only visible to users in the XRechnung Manager group.

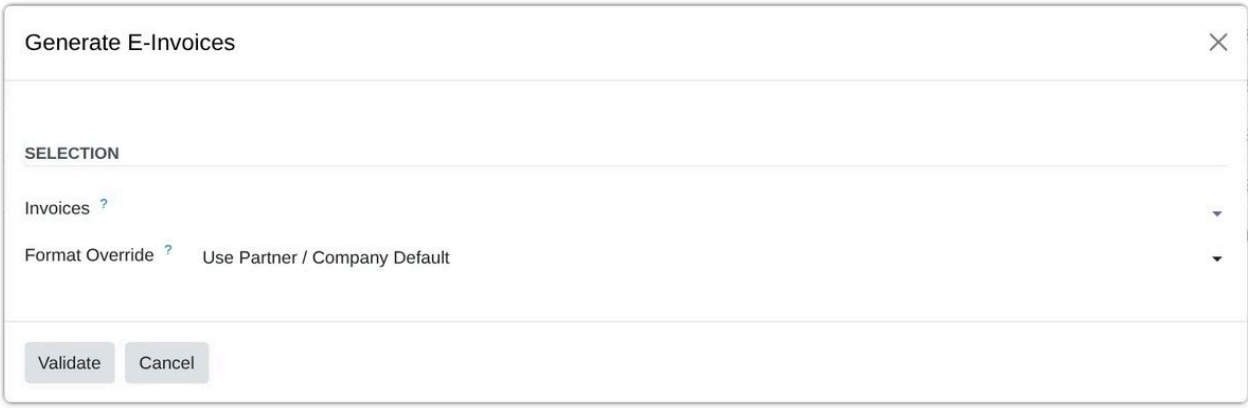
The wizard fields

Invoices	The posted customer invoices and credit notes for which you want to generate the e-invoice.
Format Override	Forces one format for all selected invoices. With **Use Partner / Company Default** each invoice uses its customer's format or, if it has none, the company's. The other options are **XRechnung CII 3.x**, **XRechnung UBL 3.x**, **ZUGFeRD 2.x EN16931** and **ZUGFeRD 2.x EXTENDED**.
Validation Results	The detail of the pre-check for each invoice. Read-only.
Passed	How many invoices have passed the pre-check.
Failed	How many have not passed it.
Validate	Runs the pre-check on all selected invoices.
Generate E-Invoices	Generates the e-invoice for those that pass the check and sends them for validation.
Cancel	Closes the wizard without doing anything.

How to use it

1 **Open the wizard**

Go to **Invoicing › E-Invoices (XRechnung) › Batch Generate E-Invoices**.



- **Real Odoo 20 screenshot.** The wizard as it opens, with the **Selection** group.

2 **Choose the invoices**

Add the invoices and credit notes under **Invoices**. If needed, choose a format under **Format Override**.

3 **Click Validate**

The wizard checks each invoice and shows **Passed**, **Failed** and the detail under **Validation Results**. Until you have validated, **Generate E-Invoices** is not visible.

4 **Click Generate E-Invoices**

The e-invoices for those that passed are generated and sent for validation. A notice shows how many were generated and how many are ready to send.

Statuses

Before validating, only **Validate** is visible. Afterwards, **Generate E-Invoices** is visible and **Validate** is hidden.

> If you click **Validate** without choosing any invoice, «Please select at least one invoice.» appears. Invoices that fail the pre-check are skipped when generating. The consent screen appears only once for the whole batch.

The two steps of the wizard

The wizard works in two steps. The first checks and the second generates. After **Validate**, the wizard reopens with the results, and then **Generate E-Invoices** appears and **Validate** disappears.

What the pre-check shows

Validation Results	A read-only summary per invoice of the check result.
Passed	Number of invoices that pass.
Failed	Number of invoices that do not pass.

What is generated and what is skipped

Generate E-Invoices generates only the invoices that passed the pre-check. Those that failed are skipped, without stopping the rest of the batch. Those generated are sent for validation to FlexigoTech Cloud. When finished, Odoo shows «N e-invoice(s) generated successfully, M ready to send (validated by FlexigoTech Cloud).». N are those generated and M are those that are now **Ready to send**.

> Only an e-invoice with a valid report is **Ready to send**. One that is generated but does not pass official validation, or is not validated, is attached without that mark. That is why M can be less than N.

Consent in a batch

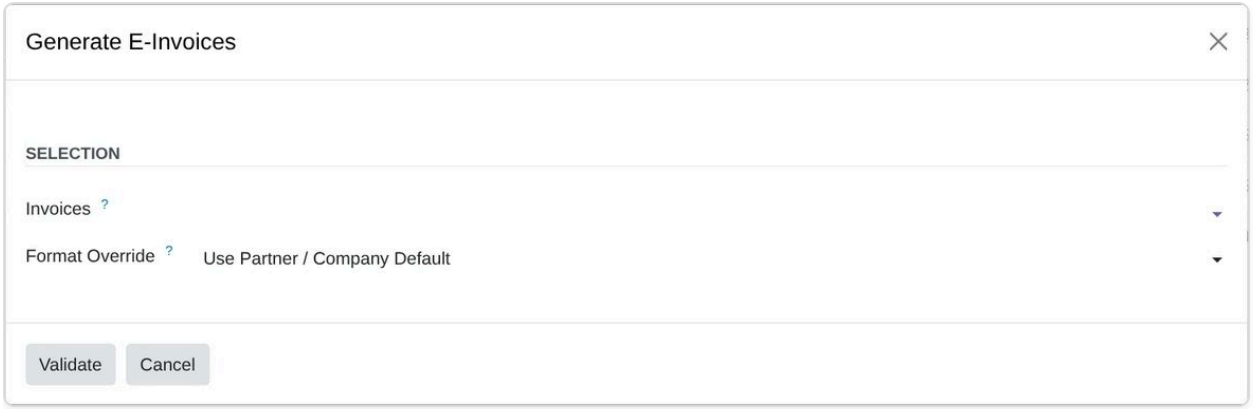
If the company has not yet accepted the consent screen, it appears only once for the whole batch, not once per invoice.

When it does not let you do something

- With no invoices chosen, **Validate** gives the error «Please select at least one invoice.».
- **Generate E-Invoices** is not visible until you have clicked **Validate**.
- The wizard menu is only visible to those in the Xrechnung Manager group.
- The wizard only picks up posted customer invoices and credit notes.

End-to-end example

You have several posted customer invoices, such as those for Kliniken Havelland Service GmbH, Bürogebäude Babelsberg Verwaltungs GmbH and Spreewald Logistik AG. You open **Batch Generate E-Invoices** from the **E-Invoices (XRechnung)** menu and add them under **Invoices**.



- **Real Odoo 20 screenshot.** The wizard with **Format Override** set to **Use Partner / Company Default**.

1. **Leave the format as it is**

   With **Use Partner / Company Default**, each invoice uses its customer's format. If you want another for the whole batch, change it under **Format Override**.

2. **Click** Validate

   The wizard shows how many pass under **Passed** and how many fail under **Failed**. The detail for each is under **Validation Results**.

3. **Fix what is needed**

   If an invoice fails, correct it on its record and repeat the check. If you do not correct it, it is skipped when generating.

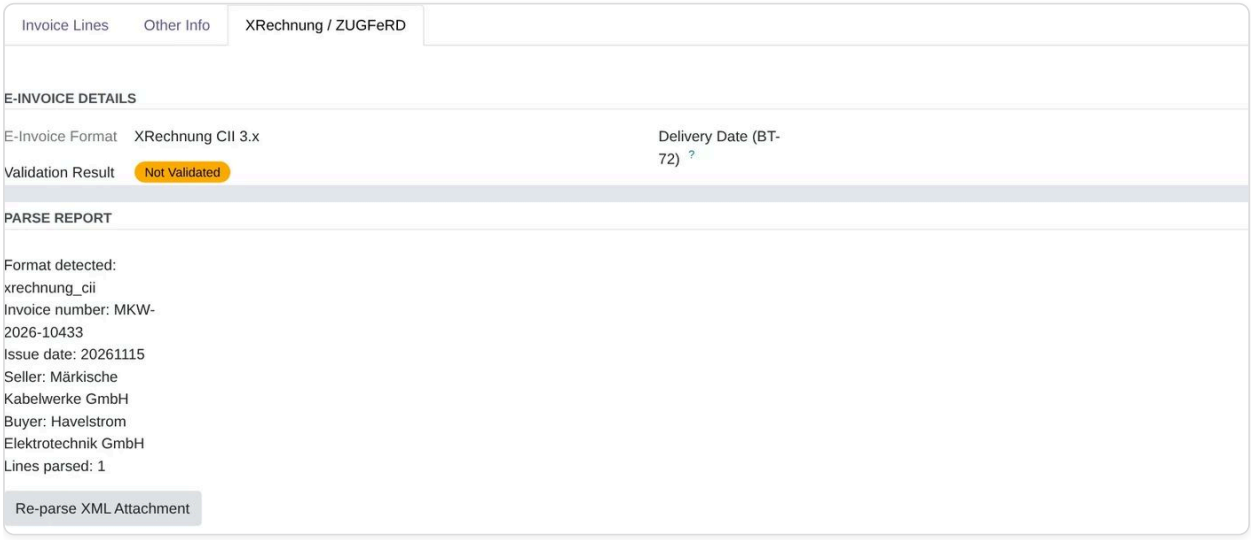
4. **Click** Generate E-Invoices

   Those that passed are generated and sent for validation. Odoo reports how many were generated and how many are ready to send.

5. **Check each invoice**

   E-invoices are attached to their invoice. You send them yourself: the module does not send them on its own.

12 Vendor bills in XRechnung or ZUGFeRD



- **Real Odoo 20 screenshot.** The **XRechnung / ZUGFeRD** tab of a vendor bill, with **Parse Report** and the **Re-parse XML Attachment** button.

Reading is not automatic. It does not happen when the file is attached or when an email arrives: only when you click the button. The scheduled task **XRechnung: Refresh Supplier Compliance Statistics** runs every day, but it only refreshes the statistics for vendor bills and does not read attachments.

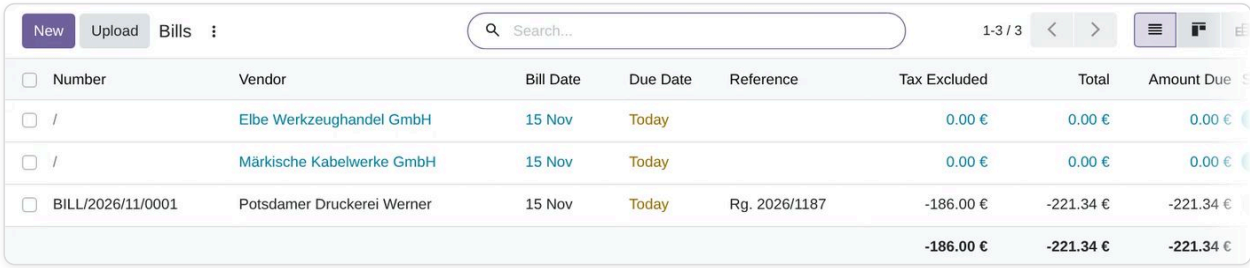
Re-parse XML Attachment	Reads the latest XML attachment of the bill. If there is none, it reads the latest PDF. It writes the result to **Parse Report**.
Parse Report	Summary of the last read: format, invoice number, date, seller, buyer and how many lines it contains.
Validation Result	After a successful read, it is set to **Not Validated**. If it does not recognise the format or cannot read the file, it is set to **Invalid** and the reason appears under **Validation Errors**.

Result statuses

Validation Result can be **Valid**, **Invalid** or **Not Validated**. A vendor bill that is read correctly is set to **Not Validated**, because nothing checks incoming documents against rules; if the file cannot be read, it is set to **Invalid**. The notice says «E-invoice re-parsed successfully.» in both cases: check **Validation Result**.

1 Open the vendor bill

Go to **Invoicing › Vendors › Invoices** and open the bill with the attached XML or PDF.



- **Real Odoo 20 screenshot.** List of vendor bills under **Invoicing › Vendors › Invoices**.

2 Go to the XRechnung / ZUGFeRD tab

It is right after the **Other Information** tab, with the button at the end.

3. **Click Re-parse XML Attachment**
   The module detects the format and writes the read report. If there is no attachment, «No XML or PDF attachment found on this vendor bill to re-parse.» appears.

> The read does not fill in the vendor, lines or amounts of the Odoo bill, and does not validate what was received. You still enter that data yourself.

What it reads and what it leaves

When you click **Re-parse XML Attachment**, the module takes the latest XML attachment of the vendor bill. If there is none, it takes the latest PDF. It detects whether it is XRechnung CII, XRechnung UBL or ZUGFeRD. It also recognises XRechnung 2.x and notes it in the report.

It then writes the format, number, date, seller, buyer and how many lines it contains to **Parse Report**. It sets **Validation Result** to **Not Validated** and records an entry line in the log. If it does not recognise the format or cannot read the file, it sets it to **Invalid** and leaves the reason under **Validation Errors**. If the document is a credit note (code 381), the vendor bill becomes a corrective invoice.

Validation Result statuses

STATUS	MEANING
Valid	The customer invoice passed FlexigoTech Cloud validation with a signed report. A vendor bill read does not produce this.
Invalid	On a customer invoice, official validation found errors. On a vendor bill, the file could not be read or its format was not recognised.
Not Validated	Not validated. This is the status a vendor bill is left in after a clean read.

Rules and conditions

- Without an XML or PDF attachment, the button warns «No XML or PDF attachment found on this vendor bill to re-parse.».
- If the file cannot be read, **Validation Errors** says «Failed to parse e-invoice attachment» with the attachment name and the reason. The notice above still says «E-invoice re-parsed successfully.»: always check **Validation Result**.
- The read does not fill in the vendor, lines or amounts of the Odoo bill.
- Nothing checks incoming bills against rules: a correct read stays at **Not Validated**.
- If the vendor has **Require Structured E-Invoice** ticked, its bill cannot be confirmed until you read its XRechnung or ZUGFeRD with **Re-parse XML Attachment**; the Odoo message explains this.

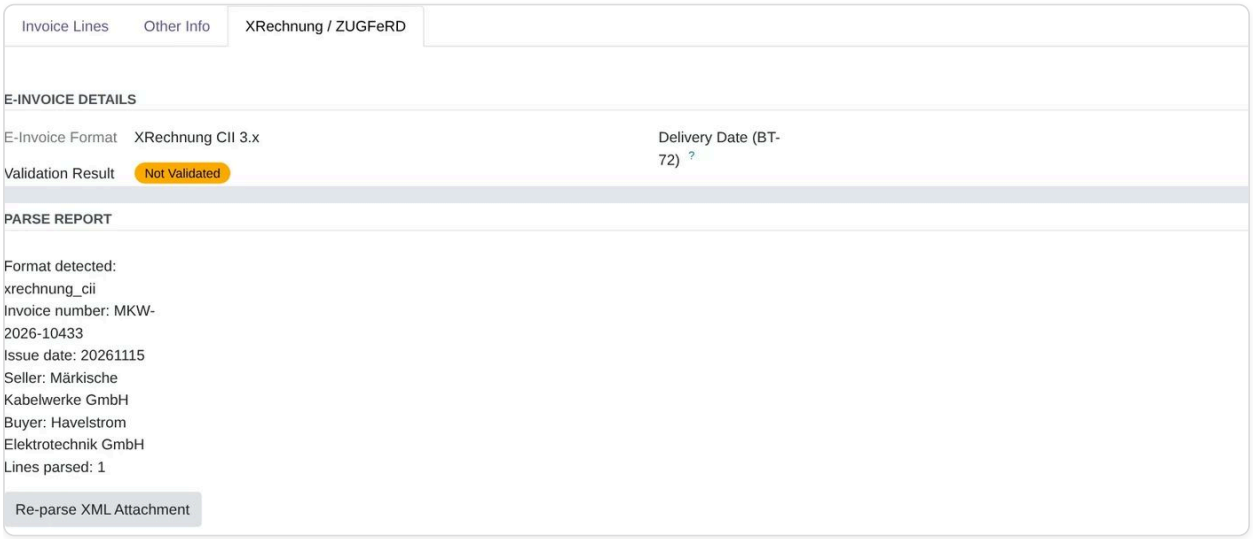
Record fields and tab

E-Invoice Format	The format of the e-invoice. On a vendor bill that has been read, the format is written in **Parse Report**.
Parse Report	Summary of the last read of an incoming invoice.

Validation Result	**Valid**, **Invalid** or **Not Validated**. After reading a vendor bill, **Not Validated**.
Validation Errors	The errors from official validation on a customer invoice, or the reason a vendor bill could not be read.

End-to-end example

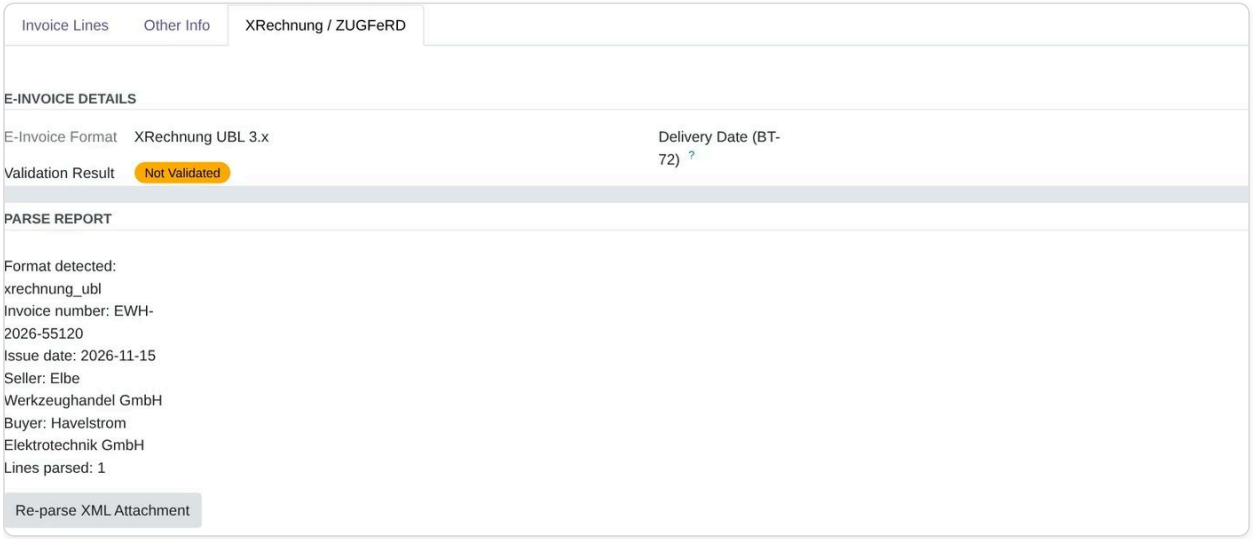
An invoice arrives from Märkische Kabelwerke GmbH with an XRechnung CII XML attached. You open the vendor bill, go to the **XRechnung / ZUGFeRD** tab and click **Re-parse XML Attachment**. In **E-Invoice Details**, **E-Invoice Format** changes to **XRechnung CII 3.x** and **Validation Result** is left at **Not Validated**.



- **Real Odoo 20 screenshot.** Vendor bill from Märkische Kabelwerke GmbH, with **E-Invoice Format** at **XRechnung CII 3.x** and **Not Validated**.

In **Parse Report** you have the format, invoice number, date, seller, buyer and how many lines it contains. The Odoo bill keeps the data it already had, because the read does not fill it in.

The case of Elbe Werkzeughandel GmbH is the same with a UBL XML: the read detects it as XRechnung UBL and the result is also left at **Not Validated**.



- **Real Odoo 20 screenshot.** Vendor bill from Elbe Werkzeughandel GmbH, with **XRechnung UBL 3.x** and the **Re-parse XML Attachment** button.

13 The hash-chained audit log

Direction	Partner	Invoice	Invoice Number / Referen…	Format Detect…	Validation Result
Inbound (Receiv…	Elbe Werkzeughandel GmbH	Draft Bill		xrechnung_ubl	Pending
Inbound (Receiv…	Märkische Kabelwerke GmbH	Draft Bill		xrechnung_cii	Pending
Outbound (Sent)	Amt Beetzsee	INV/2026/00008	INV/2026/00008	N/A	Fail
Outbound (Sent)	Landesamt für Bauen und Verkehr Brandenburg	INV/2026/00006 (PO-4500267)	INV/2026/00006	xrechnung_cii	Pass
Outbound (Sent)	Spreewald Logistik AG	INV/2026/00005 (PO-4500250)	INV/2026/00005	xrechnung_ubl	Fail
Outbound (Sent)	Kliniken Havelland Service GmbH	INV/2026/00004 (PO-4500233)	INV/2026/00004	xrechnung_cii	Pass
Outbound (Sent)	Bürogebäude Babelsberg Verwaltungs GmbH	INV/2026/00003 (PO-4500216)	INV/2026/00003	zugferd_en16…	Pass
Outbound (Sent)	Stadtverwaltung Werder (Havel)	INV/2026/00002 (PO-4500199)	INV/2026/00002	xrechnung_ubl	Pass
Outbound (Sent)	Landesamt für Bauen und Verkehr Brandenburg	INV/2026/00001 (PO-4500182)	INV/2026/00001	xrechnung_cii	Pass

- **Real Odoo 20 screenshot.** The **E-Invoice Audit Log** list with the direction, contact, format and result of each line.

You open it under **Invoicing › E-Invoices (XRechnung)** with the **Audit Log** menu. Each user sees the lines for their companies.

Where each line comes from

You do not have to create anything by hand. Odoo adds a line when you generate an e-invoice, when you read a vendor bill, and when you send an invoice to a customer from Odoo with **Consent to Electronic Invoice Delivery** unticked. For a generation, the line records the file, the format and the result. If FlexigoTech Cloud validated it, it also records the rules applied and the SHA-256 fingerprint of the document.

What the screen offers

Inbound and **Outbound**	Filters to see only what was received or only what was issued.
Valid and **Invalid**	Filters by validation result.
By Direction, **By Partner** and **By Format**	Group the lines by direction, by contact or by format.
Verify the hash chain	Action in the Action menu, with one or more lines selected. It checks the entire chain for its company and says whether it is intact or where it breaks.

Statuses

The **Validation Result** field of each line is **Pass**, **Fail** or **Pending**. **Pending** means there was no official validation: it is what remains after reading a vendor bill correctly or when the e-invoice was not validated.

To check the chain

1. **Open the record**
   Go to **Invoicing › E-Invoices (XRechnung)** and open **Audit Log**.
2. **Mark a line**
   One from the company is enough: the check always covers the whole chain for its company.

3 **Run the action**

In the Action menu choose **Verify the hash chain**. The notice says whether the chain is intact or where it breaks.

> No line in the record can be changed or deleted from Odoo, not even by an administrator. If you try, an English message appears that stops it.

Odoo writes the record on its own, line by line, and each line is chained to the previous one for its company.

What the Chain Hash is

Each line carries a read-only **Chain Hash** field. It is the SHA-256 fingerprint of that line and of the previous one for its company. If someone changes or removes a line directly in the database, the chain breaks from that point onwards.

The fingerprint is calculated when the line is created. While it is being saved, Odoo locks writes for that company, so only one line is written at a time and the chain order is the creation order. Lines that do not yet have a fingerprint are chained in order, starting from the last chained line of each company. If you upgrade a database from before the chain existed, all lines are chained.

What Verify the hash chain tells you

The action is in the Action menu, with one or more lines marked. It checks the whole chain of the company of those lines, not only the marked ones. If the chain is intact, it says so. If not, it points to the first line whose fingerprint does not match the stored one. That line, or the one before it, was changed or removed in the database.

Rules and conditions

- No line can be changed from Odoo. The attempt ends with an English message.
- No line can be deleted from Odoo, not even by an administrator. An English message also appears.
- The lines are created by the module itself when you generate an electronic invoice, when you read a supplier invoice, or when you send a customer invoice with **Consent to Electronic Invoice Delivery** unticked. There is no button to add them by hand.
- Each user sees the lines of their companies.

The states of Validation Result

Pass	The electronic invoice passed official validation.
Fail	It did not pass, or the supplier invoice could not be read. The messages are kept in **Validation Errors**.
Pending	No official validation took place: a supplier invoice that was read correctly, or an electronic invoice that was not validated.

The data of a line

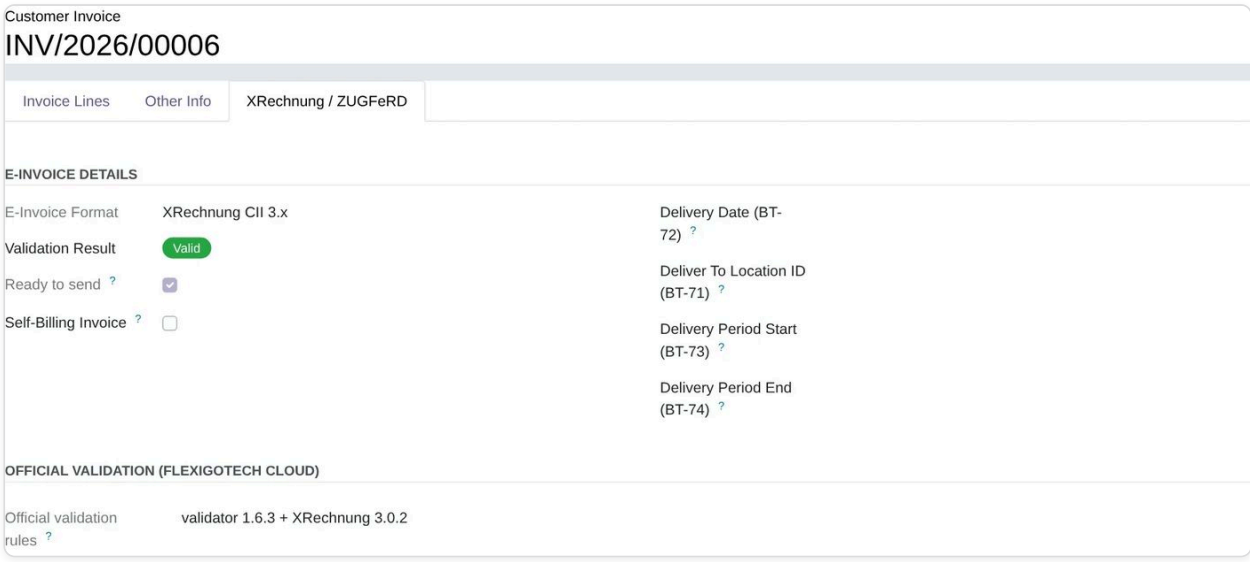
The form of a line is organised into three groups: **Event Summary**, **Validation Details** and **Notes**.

Company	The company the event belongs to. Required.
Direction	**Outbound (Sent)** for a customer invoice or **Inbound (Received)** for a supplier invoice. Required.
Partner	The contact involved in the event.
Invoice	The related invoice or supplier invoice.
Invoice Number / Reference	The invoice number in Odoo.
Format Detected	The format used or detected, for example xrechnung_cii, xrechnung_ubl or zugferd_en16931.
Validation Errors	The validation error messages.
Event Notes	Additional context for the event.
Chain Hash	The chain fingerprint, read-only.

An end-to-end example

1 **An invoice is generated**

You generate the electronic invoice of an invoice with **Generate E-Invoice**. Odoo adds an **Outbound (Sent)** line with the contact, the format and the result.



- **Real Odoo 20 screenshot.** The invoice shows **Validation Result** as **Valid** and **Ready to send** as yes.

2 **Another failure**

An invoice that the official validation returns with **Validation Result** set to **Invalid** is also logged, as one more line.

3 **The record is reviewed**

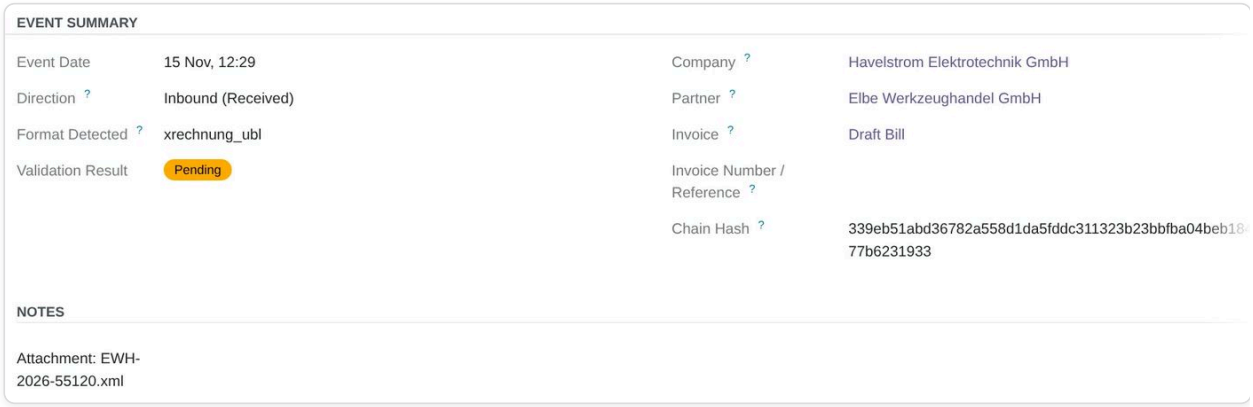
In **Invoicing › E-Invoices (XRechnung)**, in the **Audit Log** menu, you see both lines sorted by **Date**. With the **Invalid** filter, only the one that failed appears.

Direction	Partner	Invoice	Invoice Number / Referen…	Format Detect…	Validation Result
Inbound (Receiv…	Elbe Werkzeughandel GmbH	Draft Bill		xrechnung_ubl	Pending
Inbound (Receiv…	Märkische Kabelwerke GmbH	Draft Bill		xrechnung_cii	Pending
Outbound (Sent)	Amt Beetzsee	INV/2026/00008	INV/2026/00008	N/A	Fail
Outbound (Sent)	Landesamt für Bauen und Verkehr Brandenburg	INV/2026/00006 (PO-4500267)	INV/2026/00006	xrechnung_cii	Pass
Outbound (Sent)	Spreewald Logistik AG	INV/2026/00005 (PO-4500250)	INV/2026/00005	xrechnung_ubl	Fail
Outbound (Sent)	Kliniken Havelland Service GmbH	INV/2026/00004 (PO-4500233)	INV/2026/00004	xrechnung_cii	Pass
Outbound (Sent)	Bürogebäude Babelsberg Verwaltungs GmbH	INV/2026/00003 (PO-4500216)	INV/2026/00003	zugferd_en16…	Pass
Outbound (Sent)	Stadtverwaltung Werder (Havel)	INV/2026/00002 (PO-4500199)	INV/2026/00002	xrechnung_ubl	Pass
Outbound (Sent)	Landesamt für Bauen und Verkehr Brandenburg	INV/2026/00001 (PO-4500182)	INV/2026/00001	xrechnung_cii	Pass

- **Real Odoo 20 screenshot.** The **Audit Log** with the columns **Direction**, **Partner**, **Format Detected** and **Validation Result**.

4 The chain is verified

You mark a line and, in the Action menu, choose **Verify the hash chain**. If the chain is intact, it says so. If not, it points to the line where it breaks.



- **Real Odoo 20 screenshot.** The detail of a line with **Event Summary**, **Chain Hash** and **Notes**.

MODULE GUIDE · XRECHNUNG & ZUGFERD

14 Which suppliers already send you structured invoices



- **Real Odoo 20 screenshot.** The **Supplier Compliance** list with one row per supplier and month.

Where the data comes from

It is filled in by the scheduled task **XRechnung: Refresh Supplier Compliance Statistics**, which runs every day and is active by default. In each company with **Enable XRechnung/ZUGFeRD**, it counts the posted supplier invoices of the current month, per supplier. It counts as structured those that have a format read with **Re-parse XML Attachment**. The rest count as non-structured. It only creates monthly rows.

What each row shows

Supplier	The supplier the row refers to.
Period Type	The period type. The rows the task creates are **Month**.
Period Start Date	The first day of the period.
Total Vendor Invoices	The posted supplier invoices of the period.
Structured E-Invoices	The supplier invoices read with **Re-parse XML Attachment** and recognised as XRechnung or ZUGFeRD.
Non-Structured (Paper/PDF)	The others: paper or PDF invoices, and also those that were not read with the button.
Compliance %	The percentage of invoices received as structured electronic invoices.
Export CSV	Button on the form of a row: downloads that row as a CSV.

How to get the CSV

1. **Open the list**
   Go to **Invoicing › E-Invoices (XRechnung)** and open **Supplier Compliance**.
2. **Open the row you want**
   To find it, group the list by **By Supplier** or **By Period**.
3. **Press Export CSV**
   A CSV with that row is downloaded.

> The statistic only counts what the module has read with **Re-parse XML Attachment**: an invoice not read with that button counts as non-structured. The module does not create quarterly or annual rows.

What counts and what does not

The statistic only looks at posted supplier invoices. Each month, for each supplier, it splits those invoices into two groups. Structured are those with a format read with **Re-parse XML Attachment**. Non-structured are all the others, including those that arrived as XRechnung and nobody read with the button. The percentage is the share of structured invoices out of the total for the period.

When it is updated

The task **XRechnung: Refresh Supplier Compliance Statistics** runs every day and is active by default. It only acts on companies that have the **Enable XRechnung/ZUGFeRD** option switched on. Each time it reviews the current month. Previous months stay as they were.

The records and their fields

Company	The company the row belongs to. It is filled in with the active company.
Supplier	The supplier counted.
Period Type	It can be **Month**, **Quarter** or **Year**. The rows the task creates are monthly.

Period Start Date	The first day of the period.
Total Vendor Invoices, **Structured E-Invoices**, **Non-Structured (Paper/PDF)**	The three counts for the period. They start at zero.
Compliance %	It is calculated from the counts.

What each button and filter does

Export CSV	On the form of a row, downloads that row as a CSV.
Monthly, **Quarterly**, **Annual**	Filters by period type. As the task only creates monthly rows, only **Monthly** shows anything.
By Supplier, **By Period**	They group the list by supplier or by period.

An end-to-end example

The list screen shows Märkische Kabelwerke GmbH and Elbe Werkzeughandel GmbH, each with its monthly row. Märkische Kabelwerke GmbH sends its invoices in XRechnung CII and Elbe Werkzeughandel GmbH in XRechnung UBL. You open a supplier invoice, go to the **XRechnung / ZUGFeRD** tab and press **Re-parse XML Attachment**. The **Parse Report** is kept with the detected format. If the invoice is from the current month, the next daily run of the task counts it as structured in the supplier's row and recalculates **Compliance %**. The supplier's invoices that have not been read with the button count as unstructured.

> The statistic does not fill in the supplier invoice or validate what was received: it only counts. Nor does it create quarterly or annual rows on its own.

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15 The data that goes out and comes back

DATA	DIRECTION	WHEN
The XML of the generated e-invoice, or the one embedded in the ZUGFeRD PDF. It is signed and contains what the invoice contains: seller and buyer (names, addresses, tax ID, delivery identifiers, emails and phone numbers), lines, amounts, taxes, payment details such as the bank account, and the invoice note.	From your Odoo to FlexigoTech Cloud	Each time you generate an e-invoice with the **Generate E-Invoice** button or with the batch wizard, once the consent screen has been accepted. It is not sent with ZUGFeRD EXTENDED nor when you choose **Generate without sending**.
Health report (Odoo 18, 19 and 20): the new lines of the log counted by address and result, and the failures by type. Without the content of your records.	From your Odoo to FlexigoTech Cloud	Once a day, with the task **XRechnung: Refresh Supplier Compliance Statistics**, if the database is connected to FlexigoTech Cloud.
Signed validation report, which is stored in Official validation report (signed)	From FlexigoTech Cloud to the invoice	After each validation. The module checks that it belongs to this module, to the same format and to the same SHA-256 fingerprint of the document. If it is not verified, it is not applied.

DATA	DIRECTION	WHEN
Validation result, in Validation Result (Valid, Invalid or Not Validated)	From FlexigoTech Cloud to the invoice	After each validation.
Ready to send flag	Filled in on the invoice	Only if the signed report is valid.
Errors, in Validation Errors, one line per error	From FlexigoTech Cloud to the invoice	When the result is **Invalid**.
Rules and their version, in Official validation rules	From FlexigoTech Cloud to the invoice	After each validation.

Validation is done in FlexigoTech Cloud, on servers rented from Netcup in Germany, with the official XRechnung and EN 16931 rules from KoSIT. The file is not stored there: it is checked in memory. For each validation, a record without the content is kept for 12 months: date, base, module, size, result, number of errors and SHA-256 fingerprint. The XML is not sent to the buyer or to any government body.

Only the generated files stay in your Odoo, attached to the invoice and not deletable, and the audit log, which cannot be changed or deleted from Odoo. The supplier invoices and their reading are also there: what **Re-parse XML Attachment** leaves in **Parse Report** does not leave your database.

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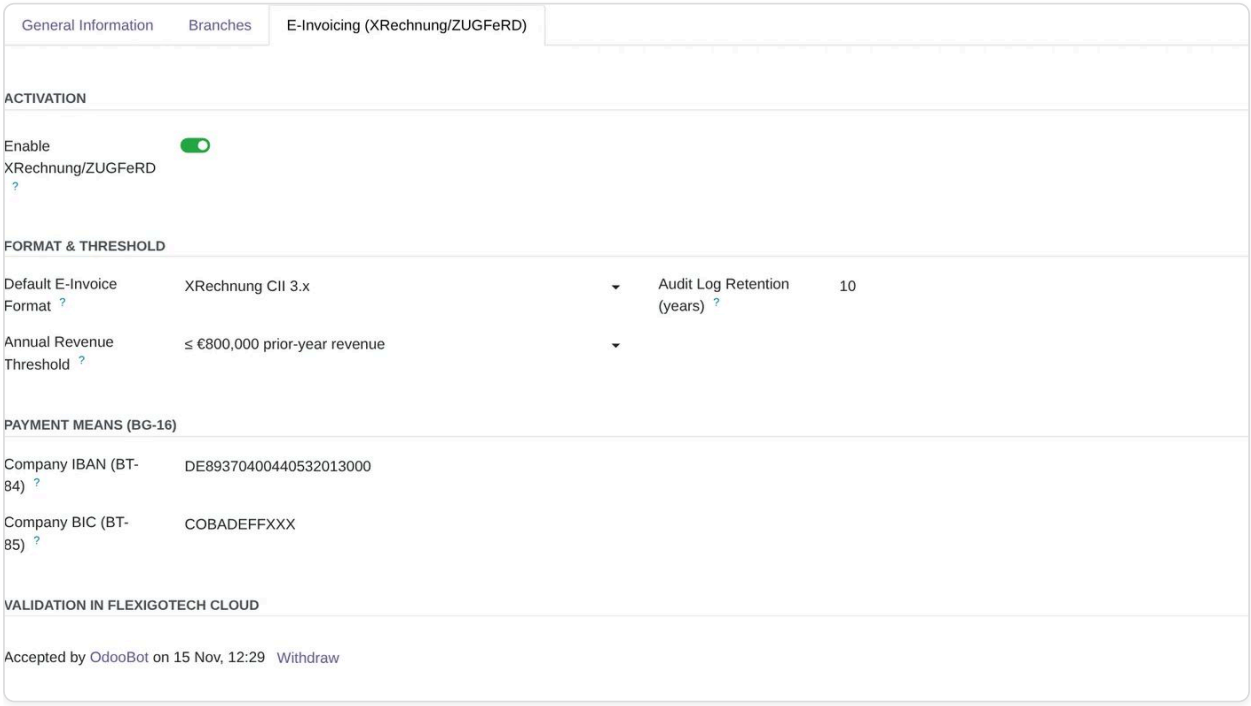
16 What happens automatically

TASK	FREQUENCY	WHAT IT DOES
XRechnung: Refresh Supplier Compliance Statistics	Daily. Enabled by default.	Counts, in each company with **Enable XRechnung/ZUGFeRD** switched on, the posted supplier invoices of the current month per supplier: structured (those with a format read with **Re-parse XML Attachment**) and unstructured (the rest), with their percentage. It only creates monthly rows. Once a day, with the database connected to FlexigoTech Cloud, it also sends a health report with the new lines of the log counted by address and result and the failures by type, without the content of your records (Odoo 18, 19 and 20).

The task does not generate e-invoices, read supplier attachments or validate anything: you do all of that with the **Generate E-Invoice**, **Generate E-Invoices** and **Re-parse XML Attachment** buttons.

The frequency is changed in **Settings › Technical › Automation › Scheduled Actions**, with developer mode activated.

17 The company options and their defaults



- **Real Odoo 20 screenshot.** The **E-Invoicing (XRechnung/ZUGFeRD)** tab of the company form, with its four groups.

The company is configured in **Settings › Users & Companies › Companies**, in the **E-Invoicing (XRechnung/ZUGFeRD)** tab. Some of these options also appear in Settings › XRechnung / ZUGFeRD.

OPTION	DEFAULT	WHAT IT DOES
Enable XRechnung/ZUGFeRD	Unchecked	Enables German e-invoicing for the company. Without it, the pre-check does not allow generation and the daily supplier task does not count it.
Default E-Invoice Format	**XRechnung CII 3.x**	Format used for generation when the customer has none of its own. The other options are **XRechnung UBL 3.x**, **ZUGFeRD 2.x EN16931** and **ZUGFeRD 2.x EXTENDED**.
Company IBAN (BT-84)	Empty	IBAN included in the payment details of the e-invoice. Without it, the pre-check does not allow generation.
Company BIC (BT-85)	Empty	BIC or SWIFT that goes together with the IBAN in the payment details.
Audit Log Retention (years)	10	Does not accept less than 10. It deletes nothing: the audit log cannot be changed or deleted from Odoo, whatever value is entered.
Annual Revenue Threshold	Up to EUR 800,000 prior-year revenue	Decides from when a domestic B2B invoice over EUR 250 must be electronic (2027 or 2028); if it is due and you have not generated it, the invoice shows a warning. The other option is **> €800,000 prior-year revenue**.
Small Business (§ 19 UStG)	Unchecked	Tick it if your company does not charge VAT (§ 19 UStG): lines without tax come out exempt, with the reason "Kleinunternehmer gemäß § 19 UStG". If not ticked, a line without tax fails the pre-check, except in a company with no VAT number and no tax on the invoice.

OPTION	DEFAULT	WHAT IT DOES
E-Invoice Format Preference	**Use Company Default**	On the customer form, the format used with them. If you leave it on **Use Company Default**, the company's format applies.
B2G Partner (Public Sector)	Unchecked	Marks the customer as a public authority; for such a customer the pre-check requires the Leitweg-ID.
Leitweg-ID (BT-10)	Empty	Field of the B2G customer, which goes in BT-10.
Buyer Reference (BT-10)	Empty	Buyer reference, which goes in BT-10. XRechnung requires it: without it, the pre-check will not let you generate the XRechnung of a customer that is not a public authority.
Consent to Electronic Invoice Delivery	Checked	Customer checkbox. Unchecked, the customer's **E-Invoicing** tab shows a warning and, when an invoice for that customer is sent from Odoo, a warning line is left in the log. It does not prevent sending.
Require Structured E-Invoice	Unchecked	Contact checkbox. Checked on a supplier, its invoice cannot be confirmed without first having read its XRechnung or ZUGFeRD.
Send Companion PDF	Checked	Customer checkbox. When the invoice is sent from Odoo, the invoice PDF goes with the XRechnung; unchecked, the XRechnung goes alone.
Self-Billing Invoice	Unchecked	On the invoice. Checked, the e-invoice carries the self-billing code (389).
Delivery Date (BT-72)	Empty	Delivery date. If left empty, the Odoo delivery date is used.
Deliver To Location ID (BT-71)	Empty	On the invoice. Identifier of the delivery location, such as its GLN; it goes in the e-invoice.
Delivery Period Start (BT-73) and **Delivery Period End (BT-74)**	Empty	Start and end of the delivery period, on the invoice.

Consent is only accepted or withdrawn through its screen, not by hand on the form. The unit mapping is changed in **Invoicing › E-Invoices (XRechnung) › UNECE Unit Mappings**, which only an **Xrechnung Manager** can see; a unit without a mapping goes out as C62.

What is done by hand

The module generates nothing on its own. You press each step yourself, on these screens.

SCREEN	BUTTONS
Customer invoice	**Generate E-Invoice**, which does not ask for a group. Generates the e-invoice for that invoice.
Supplier invoice	**Re-parse XML Attachment**, which reads the attachment and leaves the **Parse Report**. It does not fill in the Odoo invoice.
Batch wizard (Invoicing › E-Invoices (XRechnung) › Batch Generate E-Invoices)	**Validate**, then **Generate E-Invoices**, and **Cancel**. With **Format Override** you choose a format for the batch; with **Use Partner / Company Default** the customer's or the company's format applies. Only an **Xrechnung Manager** can open it.

SCREEN	BUTTONS
Consent screen	**Accept and generate**, **Generate without sending** and **Cancel**. Only an **Xrechnung Manager** of the company can accept. With **Generate without sending** the invoice is left **Not Validated** and not ready to send.
Company	**Withdraw**, in the **E-Invoicing (XRechnung/ZUGFeRD)** tab, withdraws consent. From then on nothing is sent until someone accepts again.
Audit Log	Read-only, plus the action **Verify the hash chain**: the log cannot be changed or deleted from Odoo.
Supplier Compliance	**Export CSV**, on the form of a row, downloads it as a CSV.

Order in which the format is chosen

- First, the customer's format (**E-Invoice Format Preference**).
- If it has none, the company's (**Default E-Invoice Format**).
- If the company has not changed it, **XRechnung CII 3.x**.
- In the batch wizard, **Format Override** takes precedence over the above for that batch.

18 Security and personal data

- The **Xrechnung User** group sees the **E-Invoices (XRechnung)** menu with the log and the supplier statistics.
- Users who also have **Xrechnung Manager** see and change the units, open the batch wizard, and accept or withdraw consent for FlexigoTech Cloud.
- When the module is installed, only the administrator is in both groups. Other users must be given them in Settings › Users.
- The **Generate E-Invoice** button on the invoice requires no group.
- Consent can only be accepted or withdrawn by an Xrechnung Manager of the company. If another user tries, Odoo shows "Only an XRechnung Manager of the company can accept or withdraw the consent to validate its e-invoices in FlexigoTech Cloud."
- Nobody can set consent by hand: it is only saved from its screen. Any other attempt gives "The consent to validate e-invoices in FlexigoTech Cloud is only recorded through its screen."
- While the company has not accepted, nothing goes out to FlexigoTech Cloud. The screen appears when the company's first e-invoice is generated with the service active, and it records who accepts, the date and the version of the text accepted.
- With the service active and the screen accepted, each e-invoice (except ZUGFeRD EXTENDED) sends its XML to FlexigoTech Cloud, with what the invoice contains: names, addresses, tax IDs, routing identifiers, the seller's and buyer's emails and phone numbers, lines, amounts, taxes, payment details such as the bank account, and the invoice note. Nothing goes to the buyer or to any authority.
- The validation report comes back signed. Before saving it, the module checks that it belongs to this module, to the same format, and to the same SHA-256 hash of the document. If it cannot be verified, it is not applied and the invoice is left unvalidated.
- The e-invoice files the module generates cannot be deleted: Odoo prevents it.

The audit log

Audit Log has one line for each e-invoice generated and each read of a supplier invoice. The lines cannot be changed or deleted from Odoo. Each line carries a **Chain Hash**, the SHA-256 hash of that line and of the previous line for its company. The action **Verify the hash chain**, in the Action menu, says whether the chain is intact or where it breaks.

Direction	Partner	Invoice	Invoice Number / Referen…	Format Detect…	Validation Result
Inbound (Receiv…	Elbe Werkzeughandel GmbH	Draft Bill		xrechnung_ubl	Pending
Inbound (Receiv…	Märkische Kabelwerke GmbH	Draft Bill		xrechnung_cii	Pending
Outbound (Sent)	Amt Beetzsee	INV/2026/00008	INV/2026/00008	N/A	Fail
Outbound (Sent)	Landesamt für Bauen und Verkehr Brandenburg	INV/2026/00006 (PO-4500267)	INV/2026/00006	xrechnung_cii	Pass
Outbound (Sent)	Spreewald Logistik AG	INV/2026/00005 (PO-4500250)	INV/2026/00005	xrechnung_ubl	Fail
Outbound (Sent)	Kliniken Havelland Service GmbH	INV/2026/00004 (PO-4500233)	INV/2026/00004	xrechnung_cii	Pass
Outbound (Sent)	Bürogebäude Babelsberg Verwaltungs GmbH	INV/2026/00003 (PO-4500216)	INV/2026/00003	zugferd_en16…	Pass
Outbound (Sent)	Stadtverwaltung Werder (Havel)	INV/2026/00002 (PO-4500199)	INV/2026/00002	xrechnung_ubl	Pass
Outbound (Sent)	Landesamt für Bauen und Verkehr Brandenburg	INV/2026/00001 (PO-4500182)	INV/2026/00001	xrechnung_cii	Pass

- **Real Odoo 20 screenshot.** The audit log with the direction, format and result of each line.

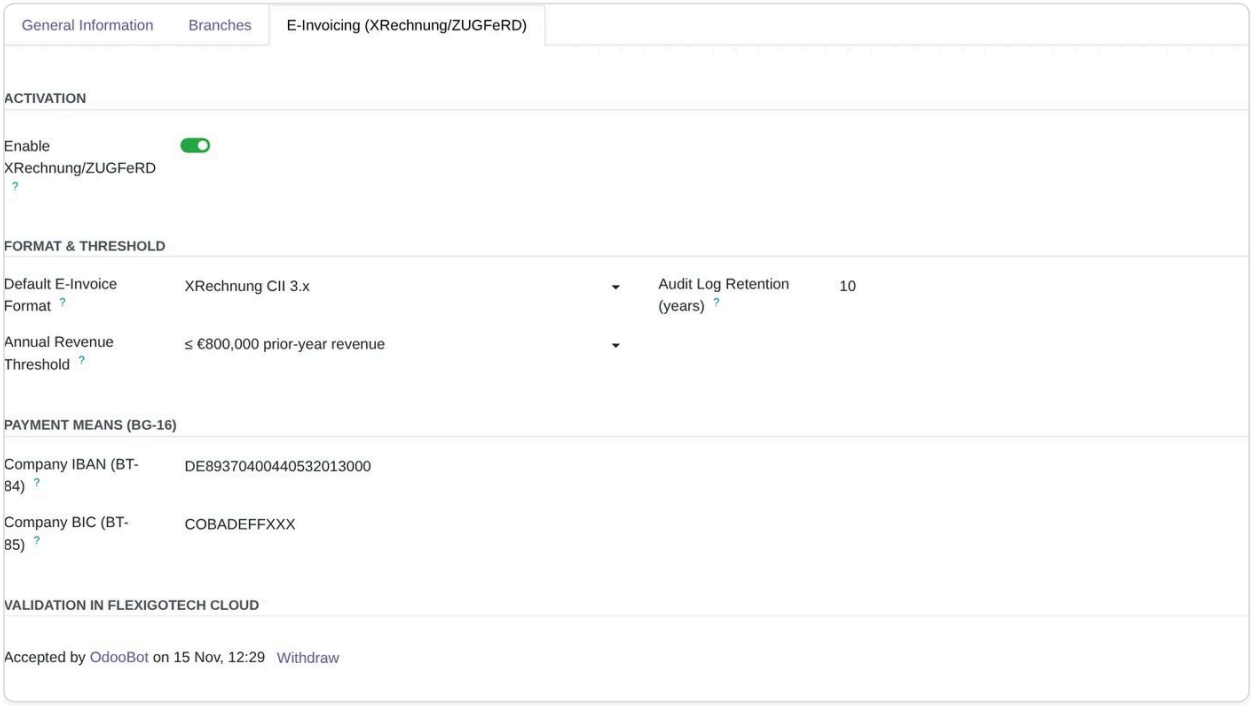
19 Multiple companies and multiple entities

Each company has its own configuration in the **E-Invoicing (XRechnung/ZUGFeRD)** tab of its form: it is enabled with **Enable XRechnung/ZUGFeRD**, and has its default format, its IBAN and its consent to validate in FlexigoTech Cloud. The log's hash chain is also per company. The daily supplier-statistics task calculates each company's data separately.

UNECE units can be global or specific to one company. When looking up a unit's code, the module checks the company's mapping first and then the global one. If it finds none, it uses code C62. The **Company-specific** filter separates a company's own ones.

Each user sees only the log lines of the companies they have access to.

The FlexigoTech Cloud service has two plans. The Standard plan costs €29 a month or €290 a year, and Pro costs €58 a month or €580 a year, excluding VAT. Both validate every XRechnung and every ZUGFeRD EN16931 you generate and give you a signed report.



- **Real Odoo 20 screenshot.** The E-Invoicing (XRechnung/ZUGFeRD) tab of a company, with consent accepted and the Withdraw button.

20 If something fails

Generation stops with "E-invoice validation failed:" and a list	Nothing is generated. Read each message in the list (the company's IBAN, telephone or email is missing; the customer's VAT number, email, country or buyer reference; or a tax on a line) and correct that data on the company, the customer or the invoice. Then press **Generate E-Invoice** again.
Validation Result shows Invalid	KoSIT has found errors in the XML. They are in **Validation Errors**, one line per error. Correct the invoice or customer data and generate again.
The trial or subscription has ended	The module needs FlexigoTech Cloud: subscribe from **Settings › FlexigoTech Cloud** and generate again.

The database is not connected	Connect it in **Settings › FlexigoTech Cloud** and generate again.
The cloud does not respond or the report does not verify	The invoice is left **Not Validated** and not ready to send; a report that does not verify is not applied. Generate the e-invoice again a little later.
Consent has not been accepted	Until an Xrechnung Manager of the company accepts the consent screen, nothing is sent for validation. Generate the e-invoice to see it, and accept it with **Accept and generate**.
ZUGFeRD EXTENDED	This format is not validated, so the e-invoice is left **Not Validated**.
Re-parse XML Attachment finds no attachment	It shows "No XML or PDF attachment found on this vendor bill to re-parse." Attach the XML or PDF to the supplier invoice and press the button again.
Odoo will not save a customer's Leitweg-ID	Odoo says what fails: the form (how many digits, letters and hyphens it allows) or the check digit, and in that case which one it expected. Copy the Leitweg-ID exactly as the authority gave it; if it still fails, ask them for it again.

When the official validation has not been carried out, the notification shows one of these sentences: "This format has no official validation in FlexigoTech Cloud: the e-invoice was not validated.", "FlexigoTech Cloud did not answer: the e-invoice was not validated." or "The validation report from FlexigoTech Cloud does not verify, so it was not applied: the e-invoice was not validated.".

Other messages you may see

"Please select at least one invoice."	You opened the batch wizard without invoices. Choose at least one under **Invoices** and press **Validate**.
"Failed to generate e-invoice: ..."	Generation failed and the message gives the reason. Correct what it indicates and generate again.
"Could not determine e-invoice format." under Validation Errors	**Re-parse XML Attachment** did not recognise the attachment as XRechnung CII, XRechnung UBL or ZUGFeRD. Check which file you attached to the supplier invoice.
"Failed to parse e-invoice attachment "...": ..."	It appears under **Validation Errors**: **Re-parse XML Attachment** could not read the attachment. Check that the file is a valid e-invoice.
"Only an XRechnung Manager of the company can accept or withdraw the consent to validate its e-invoices in FlexigoTech Cloud."	Ask an Xrechnung Manager of that company to accept or withdraw the consent.
"The consent to validate e-invoices in FlexigoTech Cloud is only recorded through its screen."	Consent is only saved from its screen. Generate an e-invoice to open it.
"E-invoice validation failed:" with "Company IBAN (BT-84) is required for XRechnung generation."	Fill in the **Company IBAN (BT-84)** in the company's **E-Invoicing (XRechnung/ZUGFeRD)** tab.

"E-invoice validation failed:" with "Customer email (BT-49) is required: XRechnung needs the buyer electronic address."	Add the customer's email on their form.

21 Other ways of doing it

OPTION	WHAT IT INVOLVES
By hand	You produce the XML with another tool, check it against the rules one by one, and attach it to the invoice yourself.
Odoo alone	Odoo 18, 19 and 20 Community ship as standard, in their UBL and CII e-invoicing module, two e-invoice formats for the contact: one XRechnung (UBL with the XRechnung 3.0 identifier) and one ZUGFeRD (PDF/A-3). They also include the Leitweg-ID as scheme 0204 and the import of UBL and CII XML into supplier invoices.
This module	It generates XRechnung 3.0 in CII or UBL and ZUGFeRD EN16931 or EXTENDED from posted customer invoices and credit notes. Before generating it runs a preliminary data check. It attaches the file to the invoice, where it cannot be deleted. In FlexigoTech Cloud, each e-invoice (except ZUGFeRD EXTENDED) is validated against the KoSIT rules and a signed report comes back. For supplier invoices it only produces a read-only report, without filling them in. It keeps a hash-chained audit log, statistics on structured supplier invoices, and the mapping of units to UNECE codes.

If you already produce your e-invoices with another tool, you can carry on with it: the module does not touch invoices you already have. With this module, the file comes from the posted invoice itself, with the **Generate E-Invoice** button or the batch wizard. Before switching, review each customer's format in the **E-Invoicing** tab of their form: that is the format that gets generated.

22 Plans and pricing

€9

License per Odoo version.

+ FlexigoTech Cloud

STANDARD

€29/month

or €290 a year

First response within 1 working day

PRO

€58/month

or €580 a year

First response within 4 working hours

Video call if needed

14-day trial, no card

Prices exclude VAT

The module license is per Odoo version. FlexigoTech Cloud is paid monthly or yearly, and the 14-day trial does not ask for a card. Every purchase includes 2 months of support: we help you install it, set it up and get it working, by email and video call. While you're subscribed, support for the service stays included. Still integrating or testing? Extend your free trial.

23 Frequently asked questions

Since when has e-invoicing been mandatory in Germany?

Receiving it has been mandatory since 1 January 2025 for all businesses established in Germany. Issuing it phases in: until the end of 2026 everyone may still use paper or another format (this one, if the customer accepts it); in 2027, only those whose total turnover was at most €800,000 the previous year; after that, between businesses established in Germany, with some exceptions.

XRechnung or ZUGFeRD: which one is valid?

According to the BMF, XRechnung and ZUGFeRD from version 2.0.1, except the MINIMUM and BASIC-WL profiles, meet the e-invoicing requirements.

Is it mandatory to validate the e-invoice?

No. According to the BMF, validation is not a requirement for the invoice to be valid for tax purposes, but it helps avoid errors. The module, for its part, only marks an invoice **Ready to send** when it passes official KoSIT validation.

Does it work without FlexigoTech Cloud?

No.

How long is the FlexigoTech Cloud trial?

14 days, no card needed. If you don't subscribe at the end, the service stops.

Does it work on Odoo Online?

No. Odoo Online does not allow installing third-party modules.

Does it need Odoo Enterprise?

No. Its dependencies are Community ones (base, account, mail, uom, l10n_de and, on Odoo 19 and 20, account_edi_ubl_cii) plus the connection module for FlexigoTech Cloud. It works on Community and Enterprise, on Odoo.sh or on your own server.

Which Odoo versions is it for?

Odoo 17, 18, 19 and 20.

Which formats does it generate?

XRechnung 3.0 in CII or UBL, which is an XML file, and ZUGFeRD with the EN16931 or EXTENDED profile, which is the Odoo invoice PDF with the CII XML embedded, as PDF/A-3. A credit note comes out as a credit note.

From which invoices can it generate?

From posted customer invoices and credit notes. It is generated with the **Generate E-Invoice** button or the batch wizard.

What does Ready to send mean?

It means FlexigoTech Cloud validated the file against the official KoSIT rules and returned a signed report that the module verified. Only an e-invoice with a valid report is marked this way.

Is ZUGFeRD EXTENDED validated?

No. It is always **Not Validated** and is never ready to send.

Does the module send the e-invoice to the customer or to the authority?

Not on its own. It stays attached to the invoice and you send it; if you use the invoice's send button, the email carries the e-invoice you have generated. It does not send via Peppol or to any portal.

What leaves my Odoo?

The e-invoice XML, with seller and buyer, lines, amounts, taxes, payment details and the invoice note. It goes to FlexigoTech Cloud for validation, not to the buyer or any authority. In addition, once a day, a health report is sent with counts, without the content of your records (Odoo 18, 19 and 20).

Who accepts that this data leaves?

An **Xrechnung Manager** of the company, on the consent screen that appears before sending the first invoice. It is withdrawn with **Withdraw** on the company form.

What does FlexigoTech Cloud store?

The file is not stored: it is checked in memory. For each validation, a record is kept for 12 months without the content, with the date, module, size, result, number of errors and SHA-256 fingerprint.

What does Generate without sending do?

It generates the invoice this time without sending it for validation. The invoice stays **Not Validated** and is not ready to send.

Does it read supplier invoices?

Only when you press **Re-parse XML Attachment** on the supplier invoice. It leaves a report in **Parse Report** and, if the reading succeeds, the result stays at **Not Validated**.

Does it fill in the supplier invoice when reading it?

No. It does not fill in the supplier, lines or amounts of the Odoo invoice, and it does not validate what was received.

Can a generated file be deleted?

No. It stays attached to the invoice and cannot be deleted. If you generate again, a new file is created.

Can the audit log be changed or deleted?

No. No line can be changed or deleted from Odoo, not even by an administrator.

How do I know the log has not been tampered with?

Each line carries a **Chain Hash**, the SHA-256 fingerprint of that line and the previous one for its company. The action **Verify the hash chain** tells you whether the chain is intact or where it breaks.

What happens with an Invalid result?

KoSIT found errors in the XML. They appear in **Validation Errors**, one line per error, and the invoice is not ready to send.

Can I generate an invoice again?

Yes. Correct what the errors indicate and press **Generate E-Invoice**: a new file is created and validated again.

What does the company need?

Tick **Enable XRechnung/ZUGFeRD**, the **Company IBAN (BT-84)**, a telephone number and an email address. Without these, the pre-check will not let you generate.

What does the customer need?

Their tax ID and email address. For XRechnung, also their reference in **Buyer Reference (BT-10)**, or "-" if they do not give you one.

Can it be used to invoice public administration (B2G)?

Yes. It stores each body's Leitweg-ID after checking its check digit against the KoSIT specification, puts it in BT-10, and does not allow generating the invoice for a B2G customer without it. It does not send it: you deliver it through the channel the body specifies.

What happens with a B2B customer without a buyer reference?

The pre-check will not let you generate its invoice in XRechnung: XRechnung requires BT-10, and the module puts the **Buyer Reference (BT-10)** there. If the customer does not give you a reference, enter "-". ZUGFeRD does not need it.

Which format is used for each customer?

The one in the customer's **E-Invoice Format Preference**. If they have none, the company's **Default E-Invoice Format**, which comes set to **XRechnung CII 3.x**.

Can invoices be generated in batches?

Yes, with the **Batch Generate E-Invoices** wizard, which only opens for an **Xrechnung Manager**. Invoices that fail the pre-check are skipped.

Who can use it?

The **Generate E-Invoice** button requires no group. The **E-Invoices (XRechnung)** menu is visible to the **Xrechnung User** group; the units and the batch wizard additionally require **Xrechnung Manager**. On installation, only the administrator is in both.

Does it work with several companies?

Yes. Each company has its own configuration, its own consent and its own chain of log fingerprints. Each user sees the log lines of their companies.

What language are the screens in?

Almost all in English, in every language. The messages and labels from the official validation come translated, in Spanish, along with 27 more texts in Odoo 19 and 20 (36 in Odoo 18), in Spanish and German, such as the label for the delivery location (BT-71), the threshold notice, the Leitweg-ID messages and the new messages from the pre-check.

What do I need for ZUGFeRD on my server?

The Python package fonttools. Without it, ZUGFeRD is not generated and Odoo warns you.

Which unit code does each line carry?

Its UNECE code, according to **UNECE Unit Mappings**. A unit without a mapping is output as C62.

How much does the FlexigoTech Cloud service cost?

The Standard plan costs €29 per month or €290 per year, and the Pro plan €58 per month or €580 per year, excluding VAT. On top of that, the module license costs €9 per Odoo version.

MODULE GUIDE · XRECHNUNG & ZUGFERD

24 Glossary

XRechnung	German electronic invoice format. The module generates version 3.0, in CII or UBL, as an XML file.
ZUGFeRD	German electronic invoice format: the PDF of the Odoo invoice with the CII XML inside. The module generates the EN16931 and EXTENDED profiles.
CII	One of the two XML syntaxes of XRechnung. It is the one the module uses by default.
UBL	The other XML syntax of XRechnung. It is chosen per customer or per company.
PDF/A-3	A type of PDF that supports embedded files. In ZUGFeRD, the invoice PDF carries the XML this way.
EN 16931	The European standard for electronic invoicing. The formats the module validates follow that standard.
ZUGFeRD EXTENDED	The extended ZUGFeRD profile. The module generates it but does not validate it: it stays **Not Validated**.
KoSIT	The official rules with which FlexigoTech Cloud checks the module's electronic invoices, except ZUGFeRD EXTENDED.
Official validation	Checking the XML against the KoSIT rules, performed by FlexigoTech Cloud. It requires the trial or the subscription.
Signed report	The result of official validation. The module checks that it comes from this module, for the same format and the same document fingerprint.
SHA-256 fingerprint	A unique digest of a document or a line. It is used to verify that the report matches that file and to chain the log.
Ready to send	Invoice checkbox. It is only ticked if official validation gave **Valid** with a signed report.
Pre-check	Review of the data XRechnung requires, before generating. If something is missing, nothing is generated and you receive the list.
Leitweg-ID	The routing identifier of a German public administration body. It is a field on the B2G contact; the module checks its check digit when saving.
BT-10	The electronic invoice field for the buyer reference, which XRechnung requires. For a B2B customer it holds their **Buyer Reference (BT-10)**.
B2G	A customer that is a public administration. The pre-check requires the Leitweg-ID for it.
B2B	A customer that is a company. It may have a buyer reference in BT-10.

Credit note	Customer corrective invoice. The module generates it as a credit note.
Self-billing invoice	An invoice issued by the buyer on behalf of the supplier. It is marked with **Self-Billing Invoice**.
UNECE code	The unit of measure code for each line (BT-130). A unit without a mapping is output as C62.
Audit log	The list of lines the module writes on each generation and on each reading of a supplier invoice. It cannot be changed or deleted from Odoo.
Chain Hash	SHA-256 fingerprint of each log line and of the previous one for its company. If the chain breaks, **Verify the hash chain** detects it.
Structured supplier invoice	A supplier invoice that arrived as XRechnung or ZUGFeRD and has been read with **Re-parse XML Attachment**. Supplier statistics count these separately.

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25 Checklist and contact

- [ ] You have Odoo 17, 18, 19 or 20 on Odoo.sh or on your own server, with the Invoicing app. It cannot be installed on Odoo Online.
- [ ] You have installed the module and, if you are going to generate ZUGFeRD, the Python package fonttools on the server.
- [ ] You have started the 14-day FlexigoTech Cloud trial, without a card, from Settings.
- [ ] On the company form, tab **E-Invoicing (XRechnung/ZUGFeRD)**, you have ticked **Enable XRechnung/ZUGFeRD**, chosen the **Default E-Invoice Format** and entered the **Company IBAN (BT-84)**.
- [ ] The company has a telephone number and an email address, which the pre-check requires.
- [ ] You have given the **Xrechnung User** and **Xrechnung Manager** groups to the right people. On installation, only the administrator has them.
- [ ] Each customer has a tax ID and email address on their record and, on its **E-Invoicing** tab, the format and the **Buyer Reference (BT-10)** (or "-").
- [ ] You have generated the first electronic invoice with **Generate E-Invoice** and an **Xrechnung Manager** has accepted the consent screen.
- [ ] On the **XRechnung / ZUGFeRD** tab of that invoice, **Validation Result** is **Valid** and **Ready to send** is ticked.
- [ ] You have sent the electronic invoice to the customer, by email from the invoice or through your own channel. The module does not send it on its own.
- [ ] In **Invoicing › E-Invoices (XRechnung) › Audit Log** you have run **Verify the hash chain** and the chain is intact.

If you would like us to set this up with you, write to us. On the Pro plan, if needed, we can look at it by video call.

Email

To install it, set it up or for any question.
comercial@flexigotech.com

On the web

The module page, with the guide and the prices.
flexigotech.com/en/xrechnung.html

On Odoo Apps

The module page on the Odoo store.
apps.odoo.com

XRechnung & ZUGFeRD is a FlexigoTech module for Odoo. FlexigoTech is a brand of Flexibles y Accesorios Gobe, S.L. (Barcelona, Spain).