

Manual: **examples**

Version	1.0.1.0
Date	October 2026
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1. Introduction

Here you will find descriptions of example invoices created with elInvoiceShuttle. All of them were created from a GnuCash file.

Each example simulates customers from different countries in order to demonstrate the relevant tax options.

You will quickly notice the preference for Heavy Metal (🐼) and Ireland (🍀) in the content of the examples (Hipster friends will quickly realize that in most cases the amount corresponds to the release date of a song).

When examining the example invoices, you should also listen to the music. Here are two Spotify playlists:

- [Heavy Metal](#)
- [Irish](#)

2. General Information

2.1 Tax-Relevant Settings

For electronic invoices (XRechnung/ZUGFeRD/Factur-X), a reason must be specified if no VAT is charged.

The supported values, including translations, can be found in `config/taxdata.json`.

The corresponding value must be entered in the buyer or invoice notes, for example: `TAXCategory:=AE`

Without warranty:

- `AE`: "Other services" under the reverse-charge procedure for intangible goods such as licenses delivered by email. The recipient's VAT ID must be configured, e.g. `vat:="FI123456789"`.
- `K`: "Intra-Community supplies" (supplies of goods). Here too, the recipient's VAT ID is required.
- `G`: "Tax-exempt exports" for supplies outside the EU.
- `O`: "Non-taxable service" if the German VAT Act does not apply, e.g. in the case of small businesses.

The code `E` is also included in the file. There is no example for it. You may have to look up its meaning on the Internet. You can extend the table if necessary, provided that the underlying [ZUGFeRD library](#) understands the values under `taxCategory` and `vatexCode`.

If you look at the notes of the company "Beast Industries Oy", you will find the following (case is ignored on the left-hand side):

```
TAXCategory:=AE
vat:= FI123456789
BuyerReference:=04011000-900X999-08
```

Since invoices can be created in different languages, the English translation of the tax code is always also output (unless the language is already English).

The invoice from "Beast Industries Oy", for example, is in Finnish.

On the invoice you will find: AE: Reverse charge / Käännetty verovelvollisuus.

2.2 Logos, Background and Other Layout Settings

In the templates, you can access settings from the configuration files and assignments in customer and invoice notes.

Although it is unlikely that you will use a separate logo, background image and font sizes for every customer as in the examples, the option is available.

Based on my experience with [PrintMulti](#), users come up with the most unusual ideas.

In `appsettings.json`, you will find the following values in the `Assignments` section:

```
_tex_font, _tex_table_size, _logo, _background, _background_opacity, _table_transparent
```

You can add further values here if required. The values defined in the configuration file are default values unless they are overridden elsewhere.

The overrides are applied in the following order. The last setting found is used:

1. Translation files (example: Finland logo from `_OtherTranslations.json`)
2. Customer note (example: Sweden logo)
3. Invoice note (example: Scotland logo)

In the TeX template file `invoice.tex`, you will find, for example, the following line before the invoice items table:

```
% can be set in the appsettings.json file. If not set, the default \footnotesize is used.
\{{_tex_table_size}}
```

The Fluid syntax is explained in more detail in the [User Manual](#). It also explains the naming of the variables used (lowercase letters and `'_'` in configuration and translation files are only used to distinguish them from values set by the program).

The *normal* curly braces `{}` are used by Fluid. The *special* `⌈⌋` are converted into normal curly braces after Fluid has been applied, so that TeX can understand them. In the standard case, the result is then: `\footnotesize`

For logos and background images, file names are expected. In the template, for example, logos use:

```
{{_logo | find_file | to_slash}}
```

- `find_file` is a custom filter that automatically searches for the file in relevant directories and the `config` and `images` subdirectories and replaces it with the full file name.
- `to_slash` is also a filter that converts `\` to `/` because TeX expects paths in this form. A list of the filters can be found in the [User Manual](#).

Examples with many columns in the invoice items (details, images, VAT, discounts, ...) are wider than others. In this case, you can change the font size for the table. The possible values can be found in `appsettings.json`. Scotland is an example of this.

3. The Examples

If you click the links in the respective title, the final invoice in ZUGFeRD format stored on our server for demonstration purposes will open. You can try [PortInvoice](#) or [PDF24](#). In both tools, you can import the locally stored invoice and also view it.

3.1 Invoice: 000001 / Finland

Beast Industries Oy (Finland), [finish/english](#)

- **Language:** *Finnish/Finland* automatically from customer address (`fi-FI`)
- **Logo:** From translation file *OtherTranslations.json*
- **Background:** Not overridden → default from *appsettings.json*
- **TaxCategory:** 'AE' from customer notes ('Vat' also necessarily configured)
- **Action:** 'Unit': Default setting from *appsettings.json*; units are configured without an assignment.
- **References**
 - *BuyerReference*: From customer notes (BT-10)
 - *Contract*: From invoice notes (BT-12)
 - *SalesOrder*: From invoice notes (BT-14)
- **Order**
 - *PurchaseOrder*: This invoice is based on order 'A00001'. The order number is used (BT-13), not the order name or billing ID. *PurchaseOrder* can optionally be overridden in the invoice notes - even with no value - to suppress its appearance on the invoice.
- **Special Features**
 - Net discounts (only these are supported) are used as percentages and amounts.
 - The assignment operator is escaped in the customer notes (`:=:=`)
 - A delivery address is specified
 - The invoice has been paid

3.2 Invoice: 000002 / Germany

Metal Heart GmbH (Germany), [german/english](#)

- **Language:** *German/Germany* automatically from customer address (`de-DE`)
- **Logo:** Not overridden → default from *appsettings.json*
- **Background:** Not overridden → default from *appsettings.json*
- **TaxCategory:** 'E' from customer notes; there is a single position without vat
- **Action:** Not used
- **References**
 - *Project*: From customer notes (BT-11)
 - *ProjectName*: From invoice notes
 - *PurchaseOrder*: From invoice notes (BT-14)
- **Special Features**
 - Net discounts as percentages.
 - Multiple VAT rates
 - Invoice spanning multiple pages; TeX automatically splits the invoice items table
 - Translation in invoice notes (`_invoice_notes_example`). The feature must be enabled in *appsettings.json* (`"TranslateNotes": true,`).
 - Translation in invoice items (`'_tomatoes', '_roller_coaster'`, file *OtherTranslations.json*). This must also be enabled (`"TranslateItems": true,`)
 - TaxCategory is printed and the Code column is added to the invoice because there is an item `Tomatoes` without VAT (demo only - this does not make sense in practice)

3.3 Credit Note: 000003 / Germany

Metal Heart GmbH (Germany), [english](#)

- **Language:** *English/Neutral* from customer notes (en)
- **Logo:** From invoice notes
- **Background:** Not overridden → default from *appsettings.json*
- **TaxCategory:** 'O' from customer notes
- **Action:** A text is assigned using `text:=xxx`.
- **References**
 - *Project:* From customer notes (BT-11)
 - *ProjectName:* From invoice notes
 - *PurchaseOrder:* From invoice notes (BT-14)
- **Special Features**
 - Translation in invoice items ('_roller_coaster'), file *OtherTranslations.json*
 - **Limitation:** Paid amounts for credit notes are not recognized and are set to 0.

3.4 Invoice: 000004 / USA

Bad Company (USA), [english](#)

- **Language:** *English/USA* automatically from customer address (en-US)
- **Logo:** From customer notes
- **Background:** From the invoice items
- **TaxCategory:** 'G' from customer notes; tax-exempt, outside the EU
- **Action:** None
- **Special Features**
 - If you choose a background image (simply specify the file name; the search is performed via a filter in the template), you should also set `_table_transparent:=1` so that the invoice items table becomes transparent.
 - A different currency \$ is used.
We cannot guarantee in any way that the GnuCash postings are correct in this respect.
 - The font size for the invoice items has been increased (`_tex_table_size:=large`)

3.5 Invoice: 000005 / Austria

Atlantis GmbH (Austria), [german\(AT\)/english](#)

- **Language:** *German/Austrian* automatically from customer address (de-AT)
- **Logo:** From customer notes
- **Background:** Not overridden → default from *appsettings.json*
- **TaxCategory:** 'K' from customer notes; the code also requires a VAT to be specified.
- **Action:** None
- **References**
 - *Project:* From customer notes (BT-11)
 - *ProjectName:* From invoice notes
 - *PurchaseOrder:* From invoice notes (BT-14)
- **Special Features**
 - The most notable feature is the translation of invoice items. Here, instead of *Tomatoes*, you will find the text *Paradeiser*. Defined in *OtherTranslations.json*

3.6 Invoice: 000006 / Scotland

MacSteel Heavy Metal Ltd (Scotland), [english](#)

After our last holiday with the background image from the Glencoe valley, Scotland simply had to be included...

- **Language:** *English/United Kingdom/Scotland* cannot be detected automatically, so it is configured in the customer notes (en-GB-SCT)
- **Logo:** From invoice notes
- **Background:** Comes from the translation table here, specifically for Scotland
- **TaxCategory:** 'G' from customer notes; tax-exempt, outside the EU

- **Action:** None
- **Special Features**
 - The SCT in the Culture is actually official and is supported by the API functions. This means you can further distinguish language/region in this way. Here, the background comes from a translation table.

3.7 Invoice: 000007 / Sweden

Sweden Rock Trading AB (Sweden), [swedish/english](#)

- **Language:** *Swedish/Sweden* automatically from the address (`sv-SE`)
 - **Logo:** From customer notes
 - **Background:** From customer notes (transparent)
 - **TaxCategory:** 'AE' from customer notes ('Vat' also necessarily configured)
 - **Action:** A text is assigned using `text:=xxx`; here, the album.
 - **References**
 - *PurchaseOrder*: From invoice notes (BT-14)
 - **Special Features**
 - The `Text` action is demonstrated here. If present, the content is simply output as *Details* for each item.
- Attention:** This data is not included in electronic invoices, so it should not contain any important information.

3.8 Invoice: 000008 / Ireland

Celtic Music Ltd. (Ireland), [english](#)

- **Language:** *English/Ireland* automatically from customer address (`en-IE`)
- **Logo:** From customer notes
- **Background:** From customer notes (transparent)
- **TaxCategory:** 'AE' from customer notes ('Vat' also necessarily configured)
- **Action:** A link is assigned using `link:=xxx`; here, links to songs on YouTube.
- **References**
 - *Project*: From customer notes (BT-11)
 - *ProjectName*: From invoice notes
 - *Contract*: From invoice notes (BT-12)
 - *SalesOrder*: From invoice notes (BT-14)
- **Special Features**
 - The `Link` action adds a link from the text in *Action* to the description

3.9 Invoice: 000009 / England

Sheffield Steel Ltd. (England), [english](#)

- **Language:** *English/United Kingdom* automatically from customer address (`en-GB`)
- **Logo:** From customer notes
- **Background:** From customer notes (also set to transparent and opaque)
- **TaxCategory:** 'G' from customer notes; tax-exempt, outside the EU
- **Action:** A link is assigned using `link:=xxx`; here, links to the bands' homepages.
- **Special Features**
 - The standard logo is overridden with an empty string
 - The `Link` action adds a link from the text in *Action* to the description

3.10 Invoice: 000010 / Worldwide

Global Player Company (worldwide), [english](#)

- **Language:** *English/Australia* automatically detected from the address (`en-AU`)
- **Logo:** Not overridden → default from *appsettings.json*
- **Background:** Not overridden → default from *appsettings.json*
- **TaxCategory:** 'G' from customer notes; tax-exempt, outside the EU
- **Action:** An image is assigned using `image:=xxx`.
- **Special Features**
 - The special feature here is the image in the invoice items. Its width is automatically adjusted to the column width defined in the template. The search works in the same way as for the logo and background via the *find_file* filter
 - The table font size is slightly increased

3.11 Invoice: 000011 / Germany

- **Sprache** : *Deutsch/Deutschland* automatisch aus Kundenadresse (de-DE)
- **Logo** : Aus Kundenbemerkungen
- **Background**: Aus Kundenbemerkungen (auch hier transparent und Opaque gesetzt)
- **TaxCategory**: Keine
- **Aktion** : Link (link:=xxx), Text (text:=xxx'), Image (image:=xxx')
- **Besonderheiten**
 - Mehrere Mehrwertsteuersätze
 - Alle möglichen Aktion bis auf unit (dafür reicht der Platz nicht aus)
- **Language**: *German/Germany* automatically from customer address (de-DE)
- **Logo**: From customer notes
- **Background**: From customer notes (also set to transparent and opaque)
- **TaxCategory**: Not used
- **Action**: Link (link:=xxx), Text (text:=xxx'), Image (image:=xxx')
- **Special Features**
 - Multiple VAT rates
 - All available actions except *unit* (page is too small)