



SOFTWARESILOS

E-Invoice Documentation

PDF Manual

MODULE

e-invoice

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ZUGFeRD

E-Invoice Documentation · /e-invoice/formats/zugferd

ZUGFeRD (Zentraler User Guide des Forums elektronische Rechnung Deutschland) is the German standard for electronic invoicing, widely used in B2B transactions.

Overview

Property	Value
Version	2.3.x
Type	Hybrid (PDF/A-3 with embedded XML)
Region	Germany, Austria, Switzerland
Use Case	B2B invoicing

How It Works

ZUGFeRD creates a **hybrid document**:

1. Human-readable PDF invoice (PDF/A-3 compliant)
2. Machine-readable XML embedded in the PDF
3. Both formats in a single file

Recipients can:

- View and print the PDF as normal
- Extract the XML for automated processing

Profiles

ZUGFeRD supports different conformance levels:

Profile	Description	Recommended For
MINIMUM	Basic header information only	Simple invoices
BASIC WL	Basic with line items	Standard B2B
COMFORT	Extended information (EN 16931)	Most B2B scenarios
EXTENDED	Full feature set	Maximum compatibility
XRECHNUNG	XRechnung 3.0 compatible	XRechnung-compatible output

Choosing a Profile

- **COMFORT** is recommended for most B2B scenarios
- Use **EXTENDED** for maximum ERP compatibility
- Use **XRECHNUNG** profile if you want XRechnung-compatible output in a hybrid document

Configuration

Enable ZUGFeRD

Stores > Configuration > MageB2B > E-Invoice:

1. Set **Default B2B Format:** ZUGFeRD
2. Set **ZUGFeRD Profile:** COMFORT (or as needed)
3. Set **Document Type Code:** 380 (Commercial Invoice)

Required Company Data

Ensure these fields are configured:

- VAT ID (required)
- Company Name (from Magento store info)
- Address (from Magento store info)
- Bank IBAN (recommended)
- Bank BIC (recommended)

Generated Files

When a ZUGFeRD invoice is generated:

File	Path Example
XML	pub/media/einvoice/invoice-1000000001-zugferd.xml
PDF/A-3	pub/media/einvoice/invoice-1000000001-zugferd.pdf

The PDF contains the embedded XML (hybrid), and the XML is also stored as a separate file for download/API use (depending on your storage strategy).

Validation

ZUGFeRD documents are validated against:

- Cross-Industry Invoice (CII) schemas
- Profile-specific requirements
- PDF/A-3 compliance (when generating PDF)

Compatibility

ZUGFeRD 2.3.x is compatible with:

- **Factur-X 1.07.x** (French equivalent)
- **EN16931** (EU semantic standard)
- Most German ERP systems (SAP, DATEV, etc.)

Best Practices

1. **Use COMFORT profile** unless you need specific extended features
2. **Include IBAN/BIC** for faster payment processing

3. **Test with recipients** before going live
4. **Verify file storage** and email attachment settings match your process

Troubleshooting

PDF Not Generated

- Check that Magento's standard PDF generation works
- Verify the horstoeko/zugferd library is installed
- Check `var/log/system.log` and `var/log/exception.log` for errors

Validation Errors

- Verify all required company data is configured
- Check VAT ID format (must include country code)
- Ensure order has valid billing address

Related

- [Factur-X Format](#)
- [Configuration Guide](#)