



valitool[®]

Validate. Comply. Visualise.

Nothing remains hidden: valitool[®] Visualization

From XML code to a clear visual document

What is visualisation?

The e-invoice is here and it speaks XML. Visualisation translates these machine-readable, structured data formats into a clear, human-readable visual document. It arranges complex datasets so that accounting, specialist departments, and auditing can immediately grasp, check, and approve the content. In short: The machine processes the XML data, the human reads the visualisation.

What is the difference? (Invoice, Visualisation, XML)

To process e-invoices efficiently, distinguishing between the formats is essential:

- ✓ **XML (The data basis)**
The structured, purely machine-readable original format of the e-invoice (e.g., XRechnung). Perfect for automated processing in the system, but an unclear block of code to the human eye.
- ✓ **The classic invoice (e.g., PDF/Paper):**
An unstructured format designed primarily for the human eye, but which often has to be typed out manually or read via OCR.
- ✓ **The Visualisation (The visual document):**
The intelligent bridge. It takes the legally valid XML data and renders a 1:1 clear, familiar document view from it. It is the working tool for humans, based on the machine's data.

Why use visualisation?

To process e-invoices efficiently, distinguishing between the formats is essential!

From a purely legal perspective, the structured XML file is the actual e-invoice. For purely automated processing ("dark booking"), this is sufficient.

However, as soon as a human is involved in the process – be it for factual approval in the specialist department, random checks in accounting, clarifying discrepancies, or during a tax audit by the tax authorities – a visual document is indispensable. Anyone who wants to check, approve, and archive e-invoices efficiently needs reliable visualisation.

Validation and visualisation together form the perfect complement.

Validation creates compliance. Visualisation creates the ability to work.

While validation ensures that the XML file meets legal and technical standards, visualisation ensures that your employees can also efficiently understand and process this correct invoice. Both together are the key to a smooth process.

Why professional visualisation pays off

What are the benefits in everyday work?

- ✓ **Faster orientation**
Clear presentation of totals, line items, surcharges/discounts and payment terms without tedious searching.
- ✓ **Error reduction**
Lower risk of overlooking important information. Reduces reading errors and queries between specialist departments and accounting.
- ✓ **Specialist department acceptance**
Even employees without technical XML know-how can immediately understand and approve invoices.

Which obligations do I fulfil with visualisation?

- ✓ **Fulfilment of regularity (ICS)**
Visualisation supports traceability within the framework of the Internal Control System (ICS) and facilitates tax audits
- ✓ **No legal obligation, but Best Practice**
Die Pflicht zur E-Rechnung erfüllen Sie mit dem XML-Format. Die Visualisierung ist jedoch essenziell, um die gesetzlich geforderte Prüfbarkeit durch menschliche Prüfer (z.B. Auditoren) praktikabel zu gewährleisten.

How profitable is the use of visualisation?

The profitability of valitool® visualisation is not apparent in the IT cost centre, but in the enormous time savings in the specialist departments and accounting.

Faster ROI

If an accountant or buyer saves just 2 minutes of checking effort and annoying queries per invoice thanks to the visual document, the visualisation pays for itself from the very first processed file.

Practical example: Fast error detection during auditing

A faulty e-invoice contains 50 line items, the calculated sum of which does not match the declared total amount.

In the raw XML dataset: The error is practically invisible. An auditor would have to manually search for and add up all 50 amounts in the code – an enormous expenditure of time.

On the valitool® visual document: The abstract data is immediately rendered as a commercial table. The calculated subtotal and the incorrect final amount are clearly displayed directly below each other. The discrepancy catches the eye at first glance and can be complained about within seconds.

The professional solution for B2B visual documents

Why use the valitool® Visualiser?

To process e-invoices efficiently and with legal certainty, free tools quickly reach their limits in the B2B environment. valitool® thinks about the process holistically and offers tangible benefits:

- ✔ **Seamless 1:1 mapping**
No hidden information. Even special fields, complex discount structures or specific comments from the XML file are guaranteed to be displayed completely.
- ✔ **Compact & printable format**
No wasted space due to unnecessary pages: Our visualisation remains compact and clear. This massively accelerates invoice checking.
- ✔ **Human-readable translation**
Cryptic, machine-readable standards (such as H87 or 9126) are automatically translated into clear text. No technical XML code knowledge is necessary.
- ✔ **Multilingual presentation**
Have the same invoice displayed seamlessly in DE, EN or FR. This provides optimal support for international teams and outsourced accounting departments.
- ✔ **Highest security & expertise**
Absolutely GDPR-compliant processing. Benefit from the security of over 10 years of market experience and more than 1 million invoices per month.

TEST Visualisation de la facture électronique, pas une facture fiscale

Musterhandel GmbH

Musterstraße 1
DE-12345 Musterstadt
Frau Schäft
Adresse électronique : [EM] rechnung@musterhandel.
example

Acheteur
DemoServices GmbH
Platzhalter Straße 17e
DE-22113 Hamburg
N° TVA: DE123456788

Facture
N° RE-2026-0001
08.04.2026
Réf. Paiement: RE-2026-0001
N° TVA: DE123456788

Réf. Acheteur:	Ref-4	Date de livraison:	31.03.2026
Période de facturation:	01.03.2026 - 31.03.2026	Devis:	EUR
Profil:	ZUGFeRD 2.4.x / Factur-X 1.08.x EXTENDED	Processus:	urn:fdc:peppol.eu:2017:poacc:billing:01:1.0

Pos.	Désignation	Qté	Prix unitaire	Total	TC	
1	Innovations-Produkt GTIN (N° d'article mondial): 4000001000005[0160] Ref Art (Vendeur): 10001 N° de commande: B2025-12001, Pos.: 5 du: 25.02.2026	10 pièces Gratuite: 1 pièce	100,00 EUR	- 150,00 EUR	850,00 EUR	A
	Remise Lagerware (64), 15 % basé sur 1 000,00 EUR			100,00 EUR	B	
2	Schadensersatz Réf Art (Vendeur): EI-002/V2A Ref Art (Acheteur): Ent 0002	1 pièce	100,00 EUR			
				100,00 EUR		

Total lignes: 950,00 EUR
Montant net: 950,00 EUR
(A) TVA 10 % auf 850,00 EUR : 85,00 EUR
(B) TVA 0 % auf 100,00 EUR : 0,00 EUR
Montant total: 1 035,00 EUR
À payer: 1 035,00 EUR

Paiement
Échéance: 16.04.2026
Mode de paiement: Virement SEPA [58]
Virement SEPA: IBAN DE02120300000000202051
Musterhandel GmbH

Schreibeleig: valitool®

Sample visual document

The leading solution for precise validation and visualisation of electronic invoices



The valitool® Visualisation: High-performance, precise, complete

Architecture & Rendering Precision



Lossless Parsing (1:1 Mapping)

Deeply nested XML nodes, special fields and deviating tax situations are completely extracted and rendered into the PDF without any loss of information.



Secure Handling of complex Profiles

Robust and automatic processing of over 70 profiles and standards (including current and historical XRechnung and ZUGFeRD versions) thanks to intelligent format routing.



Resource-efficient Performance

Millisecond-fast rendering with minimal RAM requirements. Generates extremely compact PDF files – optimal for mass processing and long-term archiving.

The perfect Interaction: Validation & Visualisation



Highly fault-tolerant Rendering

Both engines operate completely non-destructively on the untouched original file. While the validator uncovers standard violations, the robust rendering engine reliably visualises even structurally deviating XML data for error analysis.



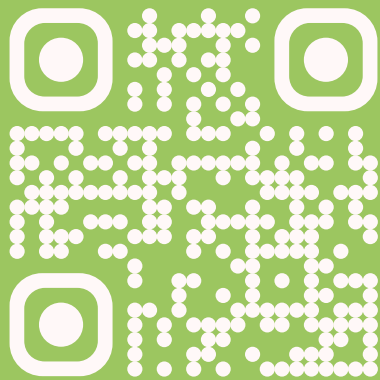
One Interface (API) for Machine and Human

Via a single, seamless connection, systems receive the machine-readable validation protocol for dark booking as well as the seamlessly prepared PDF for the human approval and checking workflow

The screenshot displays the Valitool web interface. On the left, a 'Rapport' (Report) section shows validation details for an XML file. The 'Mode de vérification' is 'XML_ONLY' and the 'Type de document' is 'INVOICE'. The 'Version' is 'ZUGFeRD 2.4.x / Factur-X 1.08.x EXTENDED'. The 'Résultat global' is 'Recommandé accepter (Exécution réussie / Aucun défaut)'. Below this, an 'Aperçu des résultat' (Preview of results) table shows 'Validation du fichier XML' with columns for 'Résultat global XML', 'Y a-t-il des mises en garde?', and 'Il n'y a pas d'alerte'. The 'Résultat global XML' is 'Approuvé', 'Y a-t-il des mises en garde?' is 'Approuvé', and 'Il n'y a pas d'alerte' is 'Approuvé'. The 'Erreur de format' is 'Approuvé', 'Erreur de contenu, TVA' is 'Approuvé', and 'Erreurs de contenu, Autres' is 'Approuvé'. The 'Structure XML (schéma)' is 'Approuvé', 'Encodage (UTF-8 sans BOM)' is 'Approuvé', and 'Listes de codes' is 'Approuvé'. The 'Espaces de noms corrects' is 'Approuvé'. On the right, a 'Document original (XML)' section shows a rendered PDF of an invoice. The invoice is from 'Musterhandel GmbH' (Acheteur) to 'DemoServices GmbH' (Fournisseur). The invoice number is 'N° RE-2026-0001' and the date is '08.04.2026'. The invoice details include a table of items with columns for 'Pos.', 'Désignation', 'Qté', 'Prix unitaire', and 'Total'. The total amount is '1 035,00 EUR'. The interface also shows a 'Rapport PDF' and 'Rapport XML' tab, and a 'Document original (XML)' and 'Aperçu facture PDF' tab. The footer of the interface indicates '© 2015-2026 valitool® Validate. Comply. Visualise. Version 1.136' and 'Audit.Valitool'.

Screenshot vom
Visualisierer im
Audit.Valitool®

IT'S TIME TO CHECK



valitool® is available from select partners.

