

INVOICE NAVIGATOR

# Founding Pilot Program

Technical Specification

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Everything you need to evaluate Invoice Navigator as your e-invoicing compliance engine. Validation, evidence, auto-fix, and API integration – all in one platform.

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# The Problem We Solve

The EU is rolling out mandatory e-invoicing country by country — Germany, France, Belgium, the Netherlands, Italy — each with different timelines, formats, and validation rules. A single invoice might need to satisfy EN 16931, XRechnung, and Peppol requirements simultaneously.

Getting it wrong means rejected invoices, delayed payments, and audit exposure. Most ERP systems can generate XML, but they cannot tell you whether that XML will be accepted — let alone fix it when it is not.

## The Compliance Engine

Invoice Navigator is not a validator. It is a compliance engine that validates, categorizes, routes, fixes, and re-validates e-invoices — with full evidence trails and safety guarantees. Every fix decision is backed by provable evidence before it touches your invoice.

### 7-Stage Pipeline

- |    |                             |   |
|----|-----------------------------|---|
| 01 | <b>FORMAT DETECTION</b>     | Identify Peppol, XRechnung, Factur-X, CII, or UBL from XML structure            |
| 02 | <b>DUAL VALIDATION</b>      | KoSIT official validator + JavaScript engine run in parallel                    |
| 03 | <b>ERROR CATEGORIZATION</b> | Map each error to fix instructions from the rule database                       |
| 04 | <b>EVIDENCE SCORING</b>     | Compute proof level for every proposed fix: PROOF, STRONG, WEAK, or BLOCKED     |
| 05 | <b>SAFETY POLICY</b>        | Denylist check, high-risk gate, and feature flag enforcement                    |
| 06 | <b>ORCHESTRATED FIXES</b>   | Apply fixes in 5 ordered passes with dependency resolution and cascade recovery |
| 07 | <b>RE-VALIDATION</b>        | KoSIT re-check after fixes; rollback if targeted errors were not resolved       |

### Intelligent Routing

After categorization, every error is routed to one of four paths based on evidence strength and safety policy:

<b>AUTO</b>	<b>CONFIRM</b>	<b>INPUT</b>	<b>BLOCKED</b>
PROOF evidence. Fixed automatically.	Suggested fix. Needs approval.	Ambiguous. User provides value.	Cannot fix. Manual intervention.

# Safety Architecture

When you auto-fix an invoice, you need guarantees. Invoice Navigator enforces four independent safety layers — every fix must pass all four before it touches your document.

## LAYER 1 — FIX DENYLIST

Payment fields (IBAN, BIC), financial totals (PayableAmount, TaxAmount), and routing identifiers are blocked by default. No fix can modify these fields without explicit user action — regardless of evidence strength.

## LAYER 2 — HIGH-RISK GATE

A 3-dimensional routing matrix evaluates every fix against the target field, the type of change, and the evidence level. High-risk fields like EndpointID require PROOF evidence even for derived values.

## LAYER 3 — EVIDENCE SYSTEM

Every proposed fix is scored across four proof types: pattern match, source authority, cross-field confirmation, and official mapping. Only fixes meeting multiple independent proofs qualify as PROOF — the minimum for automatic application.

## LAYER 4 — INVARIANT CHECKS

After all fixes are applied, fatal invariants verify that denylist fields are unchanged (SHA-256 comparison), endpoint schemes match their values, and cross-field consistency holds. Any violation rolls back the entire document to the original.

## Three Laws of the Engine

- Never Guess** Only PROOF evidence allows automatic fixes. If the engine is not certain, it asks.
- Explain Everything** Every decision is logged with full reasoning — field, evidence level, routing path, and outcome.
- Fail Safe** When in doubt, return the original. Invariant violations, cascade failures, and re-validation regressions all trigger full rollback.

# Formats & Countries

## Supported Formats

### Peppol BIS Billing 3.0

The pan-European standard for cross-border invoicing via the Peppol network.

### XRechnung (UBL & CII)

Germany's national standard, mandatory for B2G. Both UBL and CII profiles supported.

### Factur-X / ZUGFeRD 2.x

Franco-German hybrid format embedding structured XML inside a PDF/A-3.

### EN 16931 (UBL 2.1 + CII)

The European core standard underpinning all national implementations.

## Supported Countries

### DE Germany

XRechnung mandatory for B2G since 2020. B2B mandate from 2027.

### NL Netherlands

Peppol widely adopted for both B2G and B2B.

### BE Belgium

Peppol mandatory for B2G. B2B mandate from 2026.

### FR France

Factur-X standard. Transitioning to PPF (Portail Public de Facturation).

### IT Italy

SDI (Sistema di Interscambio) integration. FatturaPA format.

# API Integration

One endpoint. Send your invoice XML, get back compliant XML, a cryptographically signed evidence pack, and a detailed fix report. Integrate into your ERP, accounting platform, or CI/CD pipeline in under two hours.

**<80ms**

Median latency

**99.9%**

Uptime SLA

**31**

API endpoints

**EU-only**

Infrastructure

## The Unified Endpoint

```
curl -X POST https://api.invoicenavigator.eu/v2/validate-and-fix \  
-H "Authorization: Bearer YOUR_API_KEY" \  
-H "Content-Type: application/json" \  
-d '{"xml": "<Invoice>...</Invoice>",  
"remediation_policy": "safe",  
"generate_evidence_pack": true}'
```

Returns: compliant XML, signed evidence pack, fix summary, remaining issues, and extracted invoice metadata — all in a single response.

## Integration Architecture

**Your ERP**

generates XML

**Invoice Navigator**

validate + fix + sign

**Compliant XML**

+ evidence pack

## Developer Tools

**Postman Collection**

Import and test every endpoint

**CLI Tool**

Validate from your terminal

**GitHub Action**

CI/CD pipeline validation

**OpenAPI Spec**

Generate typed clients

Sandbox environment included. Test keys bypass quota. First compliant invoice in 60 seconds: [invoicenavigator.eu/developers/quickstart](https://invoicenavigator.eu/developers/quickstart)

# Pilot Program Terms

The Founding Pilot Program gives your team full access to Invoice Navigator for 90 days — no cost, no procurement, no strings. In exchange, we ask for one thing: honest feedback.

## Why this matters to your bottom line

Industry data shows 8–15% of e-invoices are rejected on first submission. Each rejection costs €15–45 in manual rework, re-submission, and delayed payment cycles. Invoice Navigator automatically remediates common errors before they reach the recipient — reducing rejection rates and eliminating manual compliance work from your team.

## WHAT YOU GET

Scale-tier access: 500,000 invoices/month, 365-day data retention, cryptographically signed evidence packs, all formats, all countries. Full API and dashboard access.

## DURATION

90-day pilot. At the end, choose to continue on a paid plan or walk away — no questions asked. Founding pilots get preferred pricing locked for 24 months.

## TIME TO VALUE

Integrate in under 2 hours. First compliant invoice in 60 seconds. No procurement process, no vendor onboarding forms, no legal review required to start.

## SUPPORT

Direct email line to the founder. Not a support queue — a real conversation with the person building the product. Response within 4 business hours.

## FEEDBACK CADENCE

Check-in at 2 weeks, then monthly. A short, structured conversation — not a sales call. Your input directly shapes the roadmap.

## DATA HANDLING

EU-only hosting (Frankfurt). Encrypted at rest and in transit. GDPR compliant. Your invoices are auto-deleted within 24 hours and never used for training, analytics, or shared with third parties.

# Pricing & Contact

## Pilot Pricing

### Scale Tier — 90-Day Founding Pilot

Free

- 500,000 invoices/month
- Cryptographically signed evidence packs
- All formats and all 5 EU countries
- Full dashboard + API access (31 endpoints)
- 365-day data retention
- Direct founder support (4-hour response)

## Standard Tiers (Post-Pilot)

FREE	STARTER	GROWTH	SCALE
€0	€249/mo	€499/mo	€999/mo
50/mo invoices	5,000/mo invoices	25,000/mo invoices	500,000/mo invoices
30 days retention	30 days retention	90 days retention	365 days retention

All tiers include every feature. No feature gating — only volume and retention differ. Annual billing saves 17%. Overage: €50 per 1,000 additional invoices.

## Why Invoice Navigator

- **Not a validator — a compliance engine**  
Validate, auto-fix, and generate signed evidence in a single API call. No manual rework.
- **Safety by design**  
4-layer safety architecture. Payment fields are immutable. Every fix is backed by provable evidence. Full rollback on any failure.
- **Built for integration**  
31 endpoints, sub-80ms median latency, 99.9% uptime SLA. Postman, CLI, GitHub Action, and OpenAPI spec included.

## Get In Touch

Email	<a href="mailto:hello@invoicenavigator.eu">hello@invoicenavigator.eu</a>
Web	<a href="https://invoicenavigator.eu">invoicenavigator.eu</a>
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Quickstart	<a href="https://invoicenavigator.eu/developers/quickstart">invoicenavigator.eu/developers/quickstart</a>
Trust	<a href="https://invoicenavigator.eu/trust">invoicenavigator.eu/trust</a>

