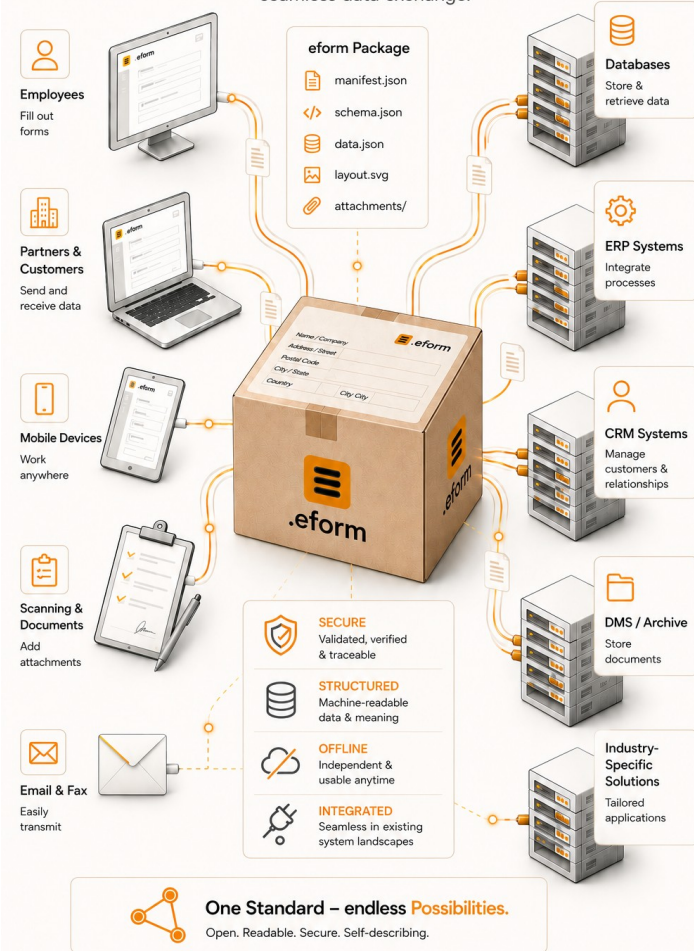


eForms: Structured Data Exchange for Automated Business Processes

eForms enable the structured exchange of data between organizations and software systems. Through mappings, forms are connected to databases — the foundation for automation and digital integration.

eform connects.

An intelligent standard for seamless data exchange.



Structure of an eForm Package

An eForm package contains both the actual business data and the information needed to understand and validate that data.

1. Form (Preview)

What the human sees

Employee Data

Personnel Data Sheet



Example Corp.

Personal Information

Last Name:	Mustermann
First Name:	Max
Date of Birth:	01.01.1990 (DD.MM.YYYY)
E-Mail:	max.mustermann@example.com
Phone:	0123 / 456789

Address

Street and House No.:	Example Street 1		
ZIP Code:	12345	City:	Example City
Country:	Germany		

Employment

Department:	IT
Position:	Software Developer
Start Date:	15.03.2022 (DD.MM.YYYY)
Employment Type:	Full-time

Date: 30.05.2025

Page 1 of 1



2. SVG File (with Embedded ZIP)

What is technically embedded in the file

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <svg xmlns="http://www.w3.org/2000/svg"
3     xmlns:xlink="http://www.w3.org/1999/xlink"
4     width="210mm" height="297mm"
5     viewBox="0 0 210 297"
6     version="1.1"
7     id="Page1">
8   <title>Employee Data</title>
9   ..
10  <!-- eForm ZIP Container (HEX) -->
11  <!-- eForm-Version: 1.0 -->
12  <!-- Begin eForm ZIP (HEX) -->
13  504B030414000600080000002100F35A5E00000000
14  D100000010000006D616E6966666F73742E6A736F6E
15  8B4E2D2E490D2D2AC6C6C2B4B2D2E5128502C;2D2A
16  4D2D2D4F07374F2DCC8CC2B4A2D2E4E4MQ1B25200AC
17  05 ...
18  <!-- End eForm ZIP (HEX) -->
19  -->
20 </svg>
```



3. Minimal Required Files in the ZIP

What must be contained in the ZIP container



(Root of the ZIP)



manifest.json

(Container-Manifest)



schema.json

(Field Definitions, Rules, Metadata)



pages/

(Form Presentation)



page1.svg

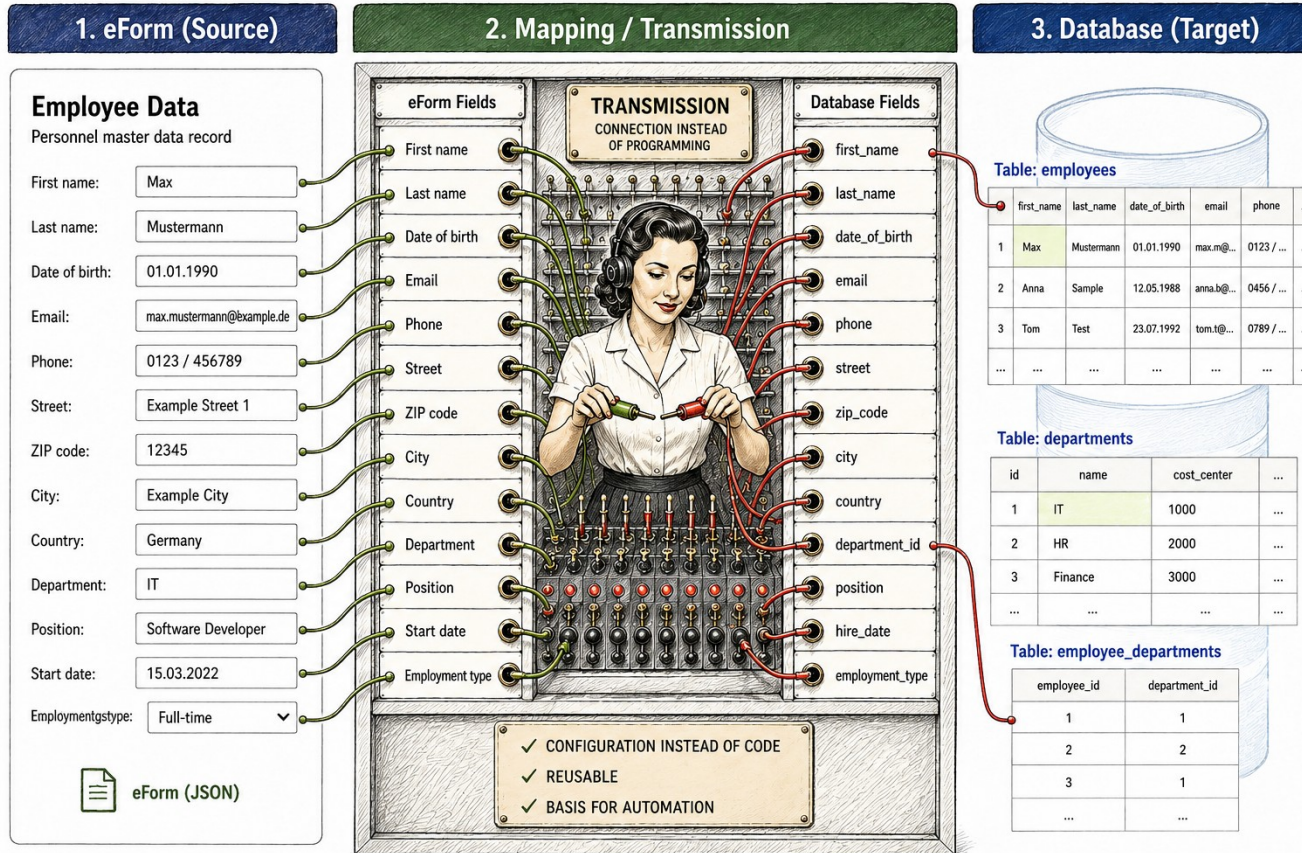
(At least one page)



This is the minimal Structure.

Additional folders and files (e.g. data/, formulas/, standards/, resources/) are optional and only required if needed.

From Field Definitions to Integratable Data



Common Understanding Instead of Exposing Internal Data Structures

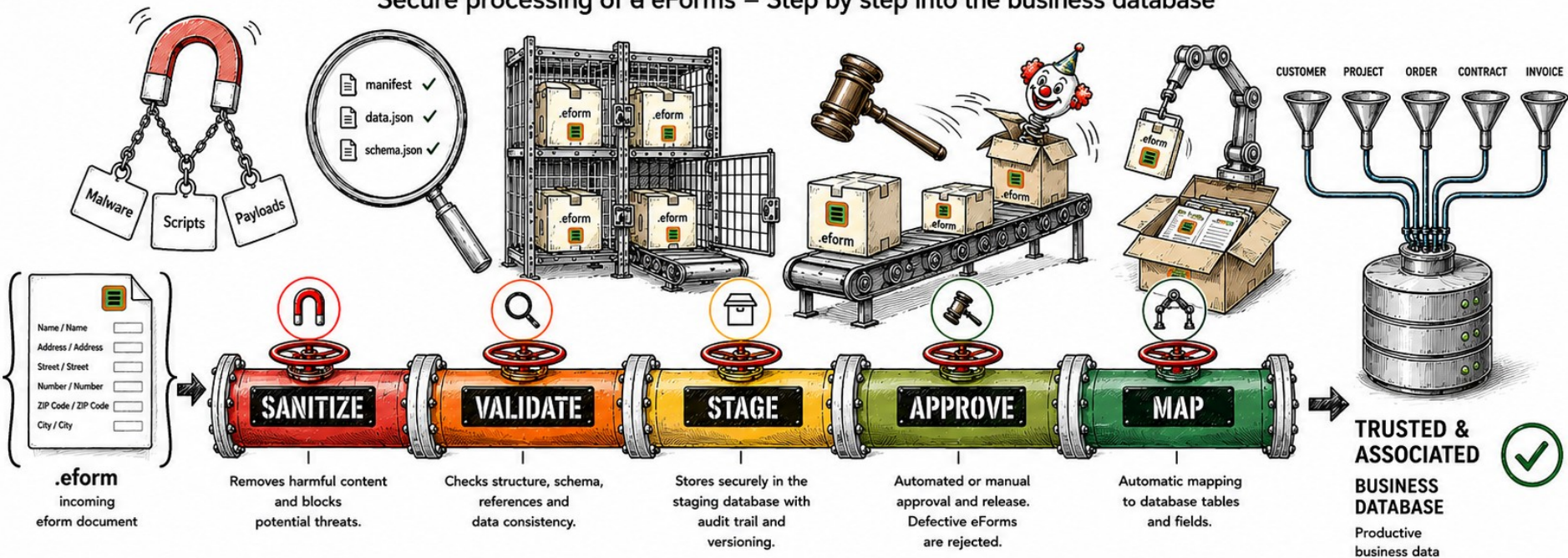
Schema fields describe the business meaning of information.

This allows recipients to map data to their own tables, fields, and business objects without requiring insight into the sender's internal database structure.

This semantic layer enables seamless data integration while allowing organizations to keep their internal data models private.

ZERO-TRUST IMPORT PIPELINE

Secure processing of eForms – Step by step into the business database



SECURITY FIRST
Every step reduces risks and protects your systems.



QUALITY ASSURANCE
Multi-level checks ensure reliable and consistent data.



TRACEABILITY
Complete audit trail and versioning at every stage.



GOVERNANCE
Manual release ensures compliance and accountability.



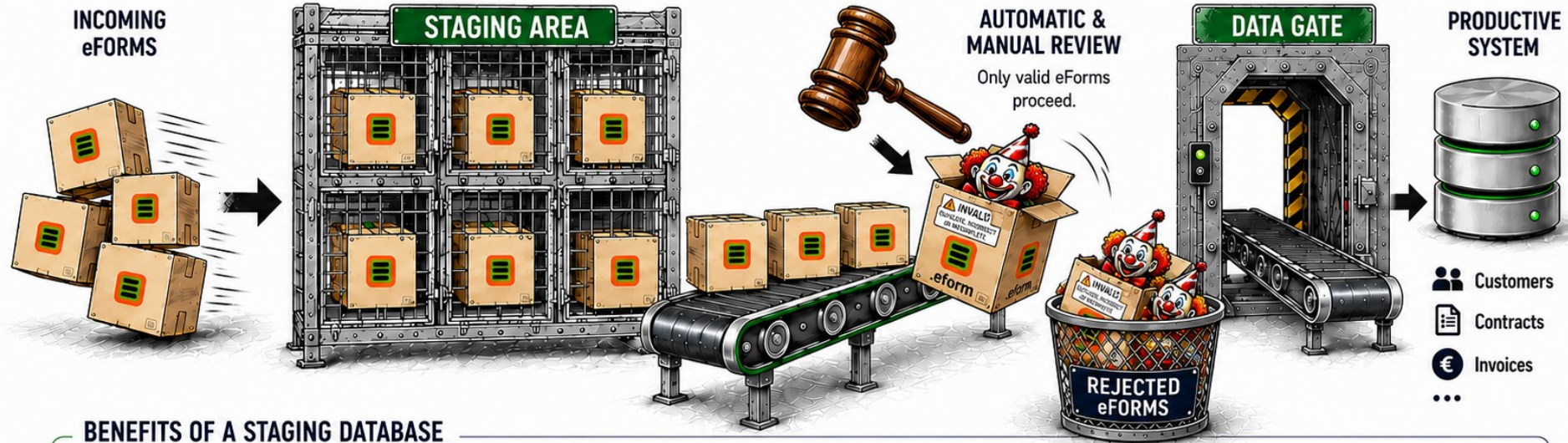
SEAMLESS INTEGRATION
Automated mapping integrates data efficiently into your systems.



ZERO TRUST PRINCIPLE
Trust is earned step by step – not granted by default.

WHY A STAGING DATABASE?

A secure buffer zone between incoming eForms and productive systems –
with quality control and audit trail.



BENEFITS OF A STAGING DATABASE



DATA QUALITY



Quality assurance – Checking data before import



Error correction – Fixing issues before they reach the productive system



Multiple submissions – Newer eForms replace older versions



CONTROL



Manual review – Human approval when needed

Pre-selection – Only relevant data sets proceed to the productive system (e.g. hired candidates, approved registrations or qualified offers)



Separation – Staging and production clearly separated



SECURITY & TRACEABILITY



Audit trail – Complete traceability of all actions



Additional security – Buffer between external data sources and mission-critical systems

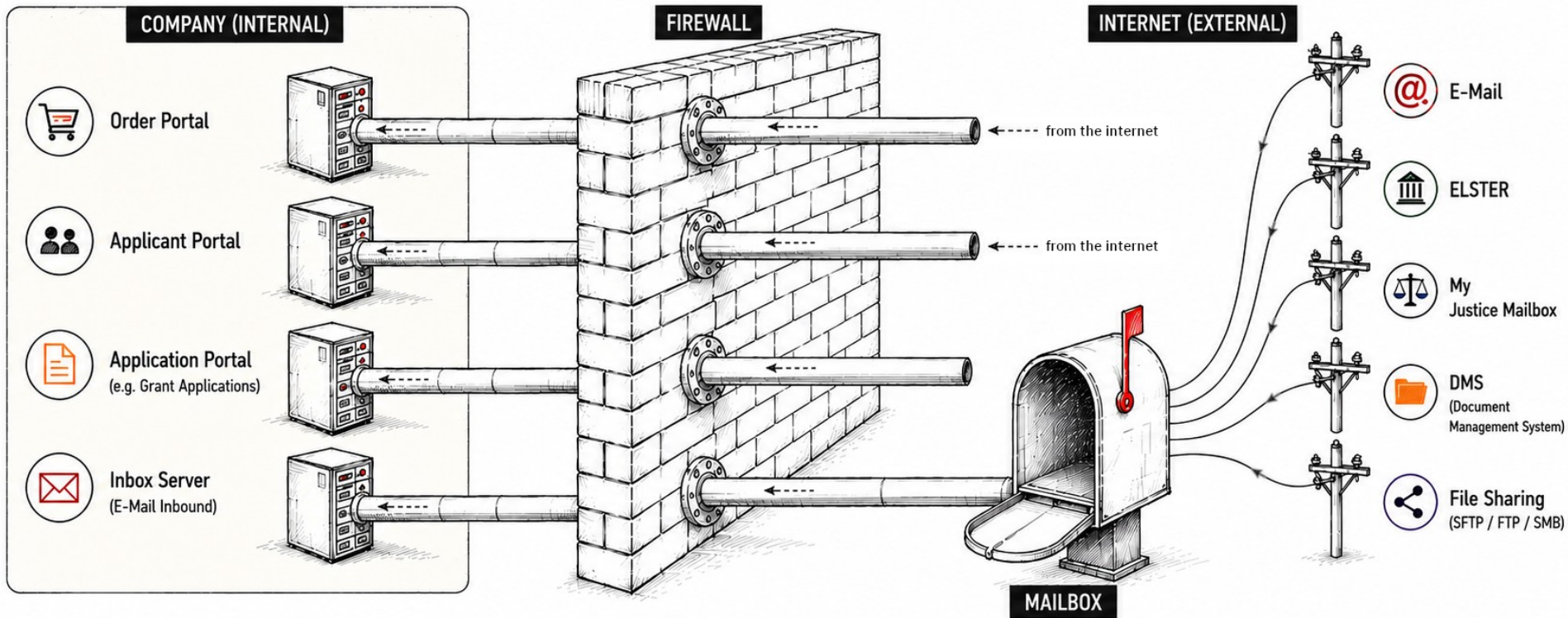


STAGING ENSURES THAT ONLY CLEAN, VALID AND APPROVED DATA REACHES YOUR CRITICAL BUSINESS SYSTEMS.

BEFORE

Traditional Approach: Multiple Public Entry Points

Multiple Public Services – Multiple Open Ports – Multiple Entry Points



Characteristics of the Traditional Approach



Every application is directly accessible from the Internet.



For each service, a separate port is opened in the firewall.



More entry points increase the attack surface and risk.

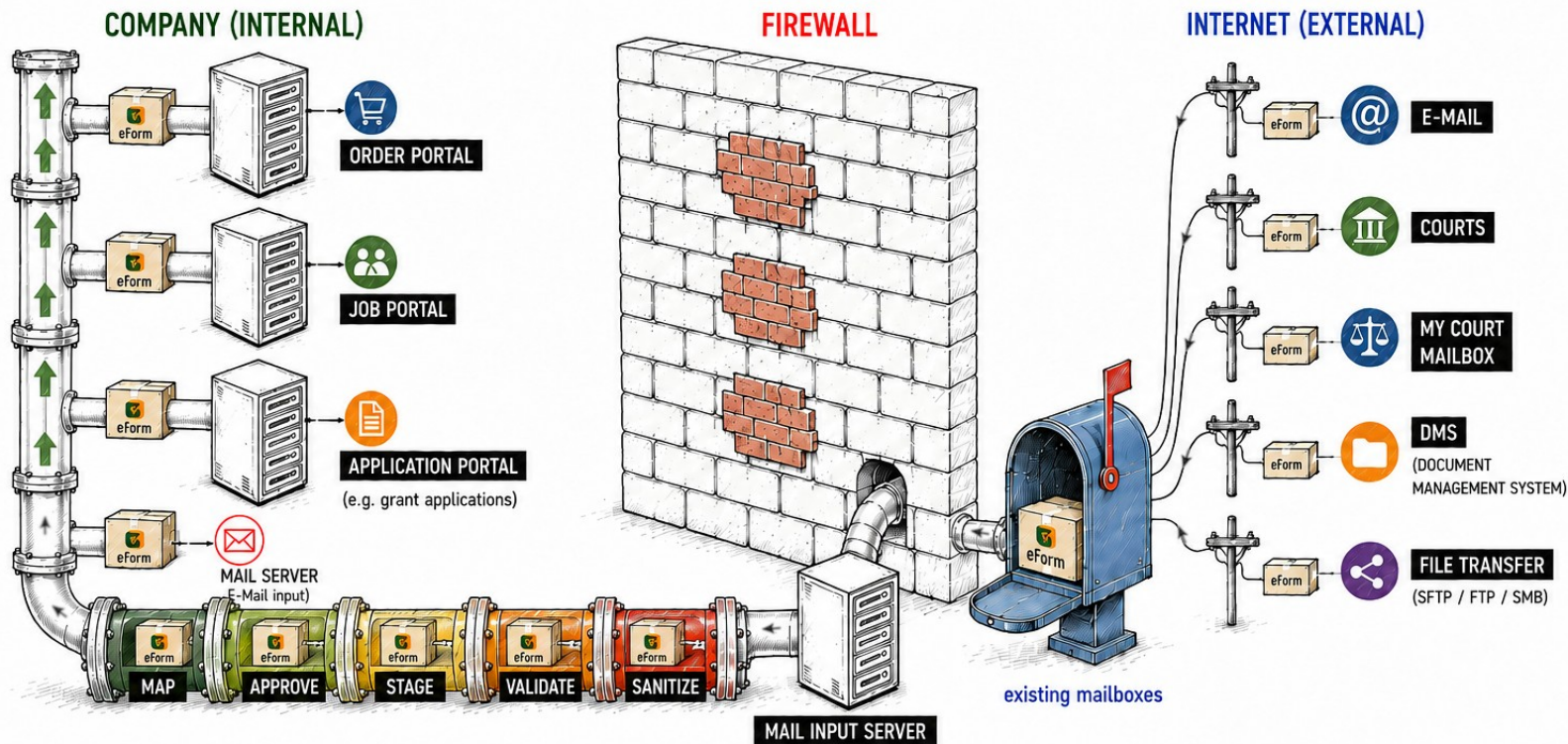


Higher operational and administrative effort overall.

WITH eForm

With eForm: A central and controlled entry point

One entry point – Zero-Trust Pipeline – secure distribution



SECURITY FIRST
Every step reduces risks and protects your systems.



QUALITY ASSURANCE
Multi-level validation ensures reliable and consistent data.



TRACEABILITY
Complete audit trail and versioning across all stages.



CONTROL
Manual approvals ensure compliance and accountability.

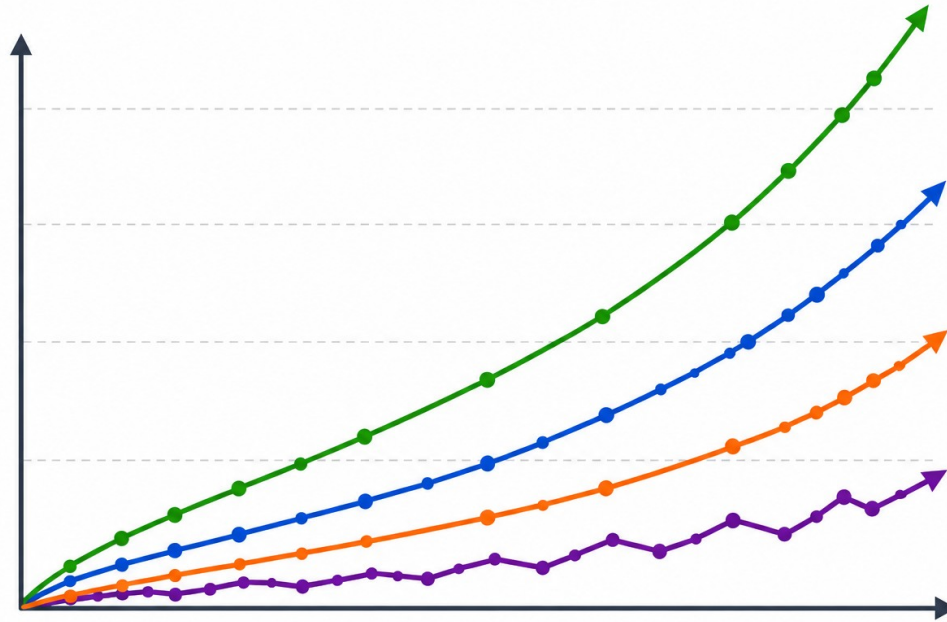


SEAMLESS INTEGRATION
Automated mapping integrates data efficiently into your systems.



ZERO TRUST PRINCIPLE
Trust is earned step by step – nothing is taken for granted.

eform — More Than a Form Format



Operational Benefits Technical Benefits

Strategic Benefits

- ✓ Better data quality
- ✓ Less manual data entry
- ✓ Faster processing
- ✓ Ready for automation

- ✓ Open standards (SVG, JSON, ZIP)
- ✓ Vendor-independent
- ✓ Easy system integration
- ✓ Long-term archiving

- ✓ Foundation for digital business processes
- ✓ Reusable integrations
- ✓ Reduced integration effort
- ✓ Future-proof data retention

\$ Business Value

Less manual effort, reduced storage requirements for archiving



Precision & Quality

Fewer typos



Speed

Seamless data transfer



Motivation & Adoption

Less effort, greater transparency

**eforms are not just digital documents —
they are structured interfaces between people, organizations, and machines.**

And last but not least:

eForm can be faxed!

Or be delivered
by clay tablets...



E-Mail: tellmi1@gmail.com

Web: <https://www.mjehnichen.de/projekte/libeform/index.html>