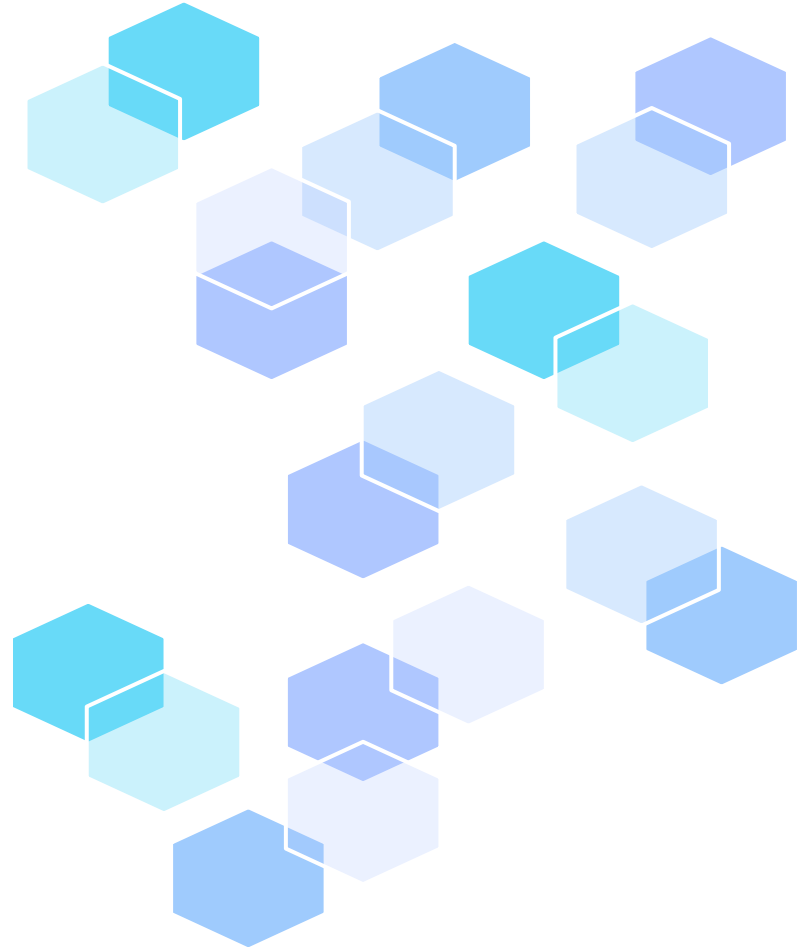


ECA Digital Integration Hub

Secure Platform for Cross-Border
Customs Data & Document Exchange



Introduction

The Customs Digital Integration Platform HUB addresses key challenges in global trade by enabling a **secure and efficient** environment for cross-border customs data and document exchange. This platform supports **digital transformation** in customs operations, enhancing collaboration between governments, trade entities, and logistics stakeholders for smoother international trade flows.



01



Customs Digital Integration Platform HUB



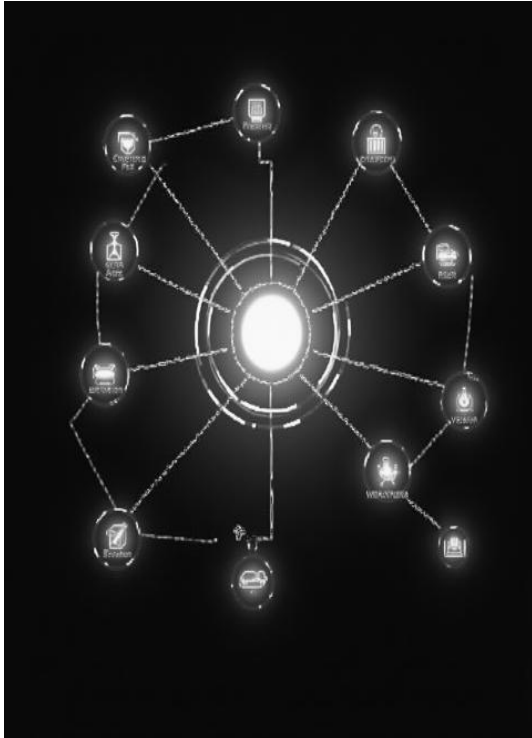


Overview

This platform provides a unified digital hub for exchanging customs data and trade documents securely across borders. The HUB enhances operational efficiency, shipment visibility, and compliance with international trade standards.



Vision



**Establish a Digital Customs Integration HUB
that enables trusted data exchange between:**

- **Customs Authorities**
- **Exporters & Importers**
- **Government Entities**

Platform Concept and Ecosystem

- **The HUB acts as a central digital integration platform connecting multiple stakeholders.**
- **Ecosystem Participants**
 - **Exporting Country Customs**
 - **Government Authorities**
 - **Importing Country Customs**
- **All connected through the Customs Digital Integration HUB.**

Cross-Border Trade Ecosystem Diagram

(Exporting Country Customs)



**Customs Digital
Integration HUB**

Importing Country Customs

02

Challenges and Needs in Global Trade






Current Challenges in Customs

International trade is becoming increasingly digital and interconnected.


However, customs administrations face several challenges:

- **Fragmented data exchange**
 - **Paper-based documentation**
 - **Limited shipment visibility**
 - **Delays in customs clearance**
- 



Need for Digital Integration

Modern trade requires:

- **Secure cross-border data exchange**
 - **Digital trade documentation**
 - **Early access to shipment data**
 - **Stronger customs cooperation**
- 

Importance of Secure Data Exchange

Secure data exchange is critical to ensuring the integrity and confidentiality of cross-border customs information. It enables trusted communication between customs authorities, importers, exporters, and government entities, reducing fraud and errors. Early access to shipment data fosters proactive risk management and accelerates clearance, improving overall trade efficiency and compliance with international standards.





03

Platform Architecture and Integration






Platform Integration Model

The platform integrates external systems using secure APIs.

Partners can connect using:

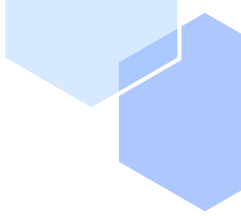
- **System-to-system integration**
 - **Custom applications**
 - **Automated data exchange**
- 



Integration Domains

The platform operates across two domains:

- 1 Document Exchange
 - 2 Customs Data Exchange
- 



Document Exchange Model (AI Fraud Detection)

Organizations can submit documents such as:

- Commercial invoices
- Certificates of origin
- Shipping documents
- Trade permits





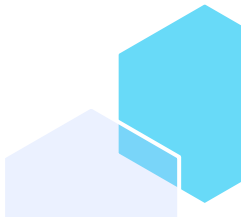
Document Identification

Documents are linked using Shipment identifiers:

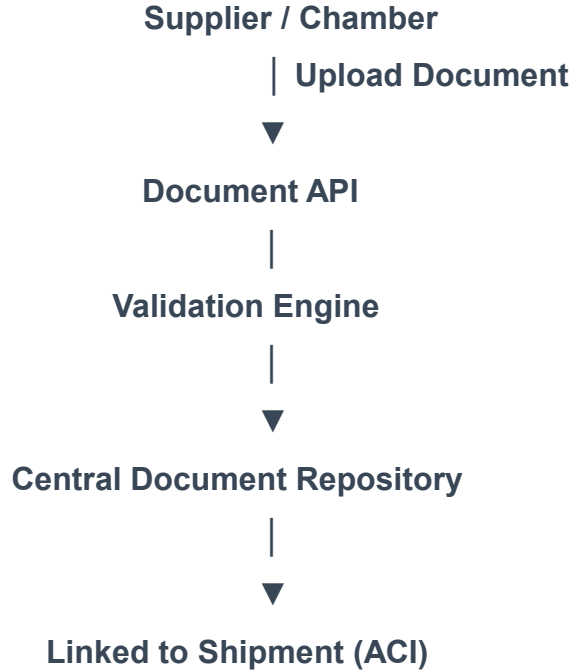
ACI Number

(Shipment identifier)

This enables full shipment traceability.



Document Exchange API Workflow





Document Management Architecture

Platform components:

- **Document APIs**
- **Document Storage (only required national documents or documents mutually agreed to be retained by both countries)**
- **Shipment Linking**

Customs Data Exchange

The platform enables exchange of:

SAD — Single Administrative Document between customs authorities As :

(Declaration Number – Declaration Type - Exporter/Consignor - Country of Origin -
Country of Destination - Description of Goods - Commodity Code (HS/TARIC) - Gross
Mass - Customs Procedure Code)

SAD Data Exchange Workflow

Partner Country Customs

| **Send SAD Declaration**



SAD API



Validation Layer

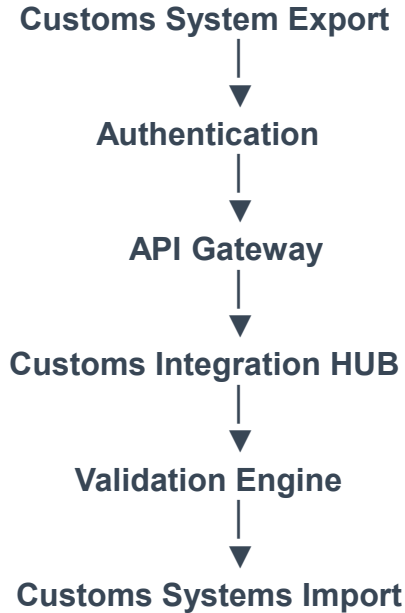


Customs Systems



Confirmation Response

API Integration Architecture



04 Platform Security Framework

Security includes:


- Secure API authentication
- Partner authorization
- Data validation
- Controlled platform access





Platform Security Measures

Security is foundational to the platform, incorporating secure API authentication, partner authorization, and controlled access. Data validation mechanisms ensure the accuracy and integrity of exchanged information. These measures collectively protect the platform from unauthorized access and data breaches while maintaining compliance with cybersecurity best practices.



Conclusion

The Customs Digital Integration Platform HUB offers a transformative solution to modern trade challenges through secure, efficient cross-border data and document exchange. By integrating diverse stakeholders, enhancing security, and automating workflows, it promotes faster customs clearance, better risk management, and stronger international cooperation, ultimately facilitating smoother and more transparent global trade operations.

