Air Import

Complete management of the **bonded import warehouse**: flights and manifests, receiving and weighing, WMS warehouse, on-site services, customs and legal abandonment, and controlled release by dock or administrative exit, with end-to-end traceability.

01 Flight · 02 AWBs · 03 ULD tow · 04 Receiving · 05 Warehouse · 06 Services · 07 Customs · 08 Release

77 web, TV and handheld screens	**MX · PE** in operation in Mexico and Peru	**10** built-in PDF documents	**100 %** of operations logged

Modules

Receiving

Shipments with a single manifest, automatic IATA messaging, Excel pre-AWBs and inbound, master · house · direct AWBs, deconsolidation, ULD tow, end of flight and receiving report.

WMS warehouse

Weight capture per tally, handling units with ZPL label, zone-aisle-module-level-position locations, capacity, weight and classification, stock per tally and per unit.

Intermediate services

Pre-inspections, customs examinations, inspections and customer services; moves to zone, handheld and TV queue; billing control.

Customs

Holds with partial / full release, warehouse blocks, automatic damage reports, damage photos, full legal abandonment.

Release

Standard (invoice / credit) and early authorization, administrative or dock exit: picking by trips, gate, loading at the dock or by controller.

Control

Home with pending tasks, import dashboard, AWB traceability, receiving control, digital twin, reports, TV and handheld.

Rates and billing Stand-alone module, enabled by a parameter, that calculates the charge of each operation.

Key capabilities

- **Full traceability:** every flight, AWB, tally and unit with timeline and stage journey.
- **Stops in the system:** cargo on hold, blocked, abandoned or with pending services is neither authorized nor loaded.
- **Measured receiving:** manifested vs received, shortages and overages, capture and put-away times per AWB.
- **Multi-warehouse and multi-country:** each warehouse with its own settings and time zone.
- Inbound **IATA messaging** (Cargo-IMP / Cargo-XML: FFM, FWB, FHL) detected automatically.
- **Centralized email** with attached PDF (reports, notices) and log with resend.
- **Floor operation:** handheld to put away, deconsolidate, take photos, release and gate; TV work queues.
- **Reports with the customer's logo:** receiving report, AWB receipt, reports, authorizations, certificates.

SysWarehouse

SPECIFICATIONS

Technology, integration and security

Platform

Web application	Responsive web on any modern browser (Chrome, Edge, Firefox, Safari); TV mode and handheld.
Mobile apps	**SysWarehouse Operations** for floor operation and **SysWarehouse Control** for supervision and KPIs (also on the web).
API	REST · .NET 10 · documented with Swagger.
Database	SQL Server, with business and API logs.
Deployment	Docker containers (database and API) and front end on Nginx; Linux or Windows; architecture ready for high availability.

Integrations

Customer systems	REST API to integrate ERPs and portals, after setting up connectivity and integration credentials.
IATA	Inbound FFM / FWB / FHL (Cargo-IMP and Cargo-XML 3), with automatic format and version detection.
Files	Excel pre-AWBs and bulk inbound (courier), in batches with downloadable errors.
Email and FTP	Own SMTP (STARTTLS) and FTP · FTPS · SFTP per carrier, with log.
Equipment	Networked scales and Zebra (ZPL) printers, kiosks, Android handhelds with scanner.

Security and control

Connection	All traffic encrypted over HTTPS (TLS).
Access	User and password (PBKDF2 hash) with JWT token; company → customer → warehouse context validated on the server.
Profiles	FULL · AUDITOR · BASIC · READ per screen; reopening only with permission.
Audit	User and date on every record, business log per operation (before → after), API, email and FTP trace.
Business time	Time zone per warehouse: the server may be in another country.
Backups	Daily and automatic, replicated to an independent contingency storage.
Data	Logical deletion; cancellations and reopenings with a reason.

Service and deployment

- **Cloud service managed by Grey TI:** servers, updates and backups included. Installation on the customer's servers depending on the contract.
- **At the warehouse:** modern browser and a stable internet connection; Zebra Browser Print on workstations with a printer.
- Configurable warehouse layout: receiving, tally, racks, pre-inspection, abandonment, loading bays and docks.
- HTML user manual (Spanish and English) with search, in-app help assistant and a knowledge base ready for an AI support assistant.



