Air Export

End-to-end bonded export warehouse: **receiving by consolidator, weighing, WMS warehouse, customs and flight build** until the cargo takes off, with documents and IATA messages sent automatically.

01 Pre-alert | 02 AWBs | 03 Weighing | 04 Warehouse | 05 Customs | 06 Flight build | 07 ULD / Dispatch | 08 Flown

44 web, TV and handheld screens	**MX · PE** in operation in Mexico and Peru	**11** own PDF documents	**100 %** of operations logged

Modules

Receiving

Pre-alert by consolidator and airline, arrival, master · house · direct AWBs with check digit, pre-AWBs from Excel or FWB / FHL, receipts.

Weighing

Weight capture per lot, handling units with scale, dimensions and ZPL label; storage by cargo type (general, dangerous, refrigerated, valuable).

WMS warehouse

Zone-aisle-module-level-position locations with capacity and max weight, stock and occupancy, dwell-time alerts, billable intermediate services.

Customs

Inspections by rule or request, holds and releases, warehouse blocks, damage reports and photos, full legal abandonment.

Departure

Pre-flights and departure flights, available cargo, split AWB, «Did not fly», ULD build-up, tows to ramp, dispatch handheld and flight departure.

Control

Home and daily dashboard, AWB traceability, reports (receiving, inventory, abandonment, departures), TV screens and chat assistant.

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

Key capabilities

- **One single departure stop:** unvalidated pre-AWB, hold, abandonment or pending inspection: that cargo does not board.
- **Flight build at a glance:** pre-assigned, loaded, offloaded; whatever «did not fly» returns to available cargo on its own.
- **Floor operation:** handheld to locate, pick up and load into ULDs (direct, ULD or both); daily TV.
- Inbound (FWB / FHL, Cargo-IMP and Cargo-XML) and outbound (XFWB / XFHL / XFFM Cargo-XML 3) **IATA messaging**.
- **Documents to the carrier** (manifest, HAWB) by email and/or FTP · FTPS · SFTP, automatic when the flight departs.
- **Legal abandonment** with notices, notifications, official letters and releases.
- **Reports with the customer's logo:** receipts, damage reports, inventory, manifests.

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 FWB / FHL · outbound XFWB / XFHL / XFFM (Cargo-XML 3).
Files	Pre-AWBs and inbound by Excel, per reception, with preview.
Email and FTP	Own SMTP (STARTTLS) and FTP · FTPS · SFTP per carrier, with log.
Equipment	Networked scales and Zebra (ZPL) printers, 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.
Audit	User and date on every record, business log per operation, API, email and FTP trace.
Local time	Each warehouse runs on its own time zone (Mexico, Peru...).
Backups	Daily and automatic, replicated to an independent contingency storage.
Data	Logical delete; nothing is lost: cancellations 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, transit, rack, inspection, abandonment and departure zones.
- HTML user manual (Spanish and English) with search and a support assistant in the chat.



