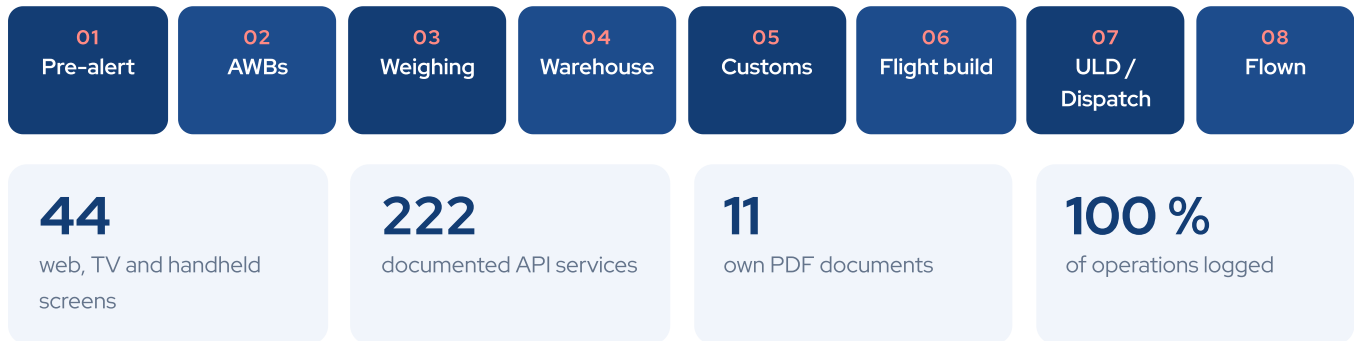


Air Export

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.



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.

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.

Technology, integration and security

Platform

Web application	Nuxt 4 · Vue 3 · PrimeVue. Web, TV mode and handheld simulator.
API	.NET 10 · ASP.NET Core · layered architecture (MediatR) · Swagger.
Database	SQL Server · own <i>expo</i> schema: 44 tables and 195 procedures.
Documents	PDF (QuestPDF) and Excel; ZPL labels for Zebra printers.
Background jobs	Hangfire: daily abandonment, Excel batches, retries.

Integrations

IATA	Inbound FWB / FHL · outbound XFWB / XFHL / XFFM (Cargo-XML 3).
Files	Pre-AWBs and inbound by Excel, per reception, with preview.
Email	Own SMTP (STARTTLS) with outbox and log.
FTP	FTP · FTPS · SFTP per carrier, with connection test.
Devices	Scales, Zebra, handheld with scanner, TV.

Security and control

Access	User and password with JWT token; company → customer → warehouse context.
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...).
Data	Logical delete; nothing is lost: cancellations with a reason.

Deployment

- Installed on the customer's server or in the cloud (Windows / Linux with .NET and SQL Server).
- Versioned, re-runnable database scripts.
- 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.

