Air Cross-dock

Complete management of cargo that **comes in, is handled and goes out** within a short window: receiving by flight, truck or counter; warehouse with WMS; dispatch by truck or by plane; customs and end-to-end traceability.

01 Arrival | 02 AWBs | 03 Receiving | 04 Warehouse | 05 Skids / Delivery note | 06 Truck | 07 Consolidation | 08 Flight

65
web, TV and handheld screens

MX · PE
in operation in Mexico and Peru

13
built-in PDF documents

100 %
of operations logged

Modules

Arrival
Pre-alert and arrival (flight / truck / counter), master · house · direct · internal AWBs, FWB / FHL / FFM and Excel import, deconsolidation.

Receiving
Tallies and handling units with weighing, scale, dimensions, volumetric weight, stackability and ZPL label. Receiving receipt.

WMS warehouse
Zone-aisle-module-level-position locations, capacity and max weight, dwell alerts, unit splitting, intermediate services.

Truck dispatch
Skids per client, cash / credit delivery notes, exit authorization, dock board, moves to loading bay, Carta Porte.

Air dispatch
Flight manifest, consolidation or direct departure, customs entries, partial shipments, ULD and tow, HAWB and manifests.

Customs and control
Holds and releases, damage reports and photos, control dashboard, traceability per AWB, 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 AWB, tally, unit and skid with timeline and stage journey.
- **Floor operation:** handheld to put away, build skids and move to CON, loading bay and air zone; TV work queues.
- **Rules in the system:** location capacity, held cargo blocked, credit vs cash, exclusive dispatches.
- **Multi-client:** one arrival per client; consolidations and trucks with cargo of several clients.
- Inbound and outbound **IATA messaging** (Cargo-IMP / Cargo-XML 3: FWB, FHL, FFM).
- **Documents to the carrier** by email and/or FTP · FTPS · SFTP, automatic when the flight or truck departs.
- **Centralized email** with full trace and automatic retries.
- **Reports with the customer's logo:** receipts, delivery note, manifests, HAWB, reports, 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 FWB / FHL / FFM (text and XML) · outbound XFWB / XFHL / XFFM Cargo-XML 3.
Files	Bulk Excel / CSV import (thousands of AWBs, in batches, 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; reopening only FULL / AUDITOR.
Audit	User and date on every record, business log per operation, API, email and FTP trace.
Secrets	FTP passwords encrypted (AES-GCM), never displayed.
Backups	Daily and automatic, replicated to an independent contingency storage.
Data	Logical deletion; 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, tally, storage, rack, consolidation, loading bays and air zone.
- HTML user manual with search and a knowledge base ready for a support assistant.



