Modular RFID and barcode software

TallyFlow gives you unified asset intelligence across web, mobile, edge, and print. Start with the one app you need, whether that's photo proof at the dock, RFID labels, door and conveyor readers, or handheld search. Add more as you grow.



Receive it. Move it. Track it. Prove it.

Modular software. Start with one app.

Many asset tracking tools solve one piece, such as a mobile app, a dashboard, or reader middleware. Printing, capture, streaming, and reporting often stay disconnected. TallyFlow covers the common pieces together: encode and print tags, manage and capture on mobile, stream from fixed readers, and report in the web hub. It is meant to fit how your team already works. Use it standalone, or integrate with your ERP when you need it.

1 Print & Encode
TallyFlow Print generates and encodes RFID tags using workflow profiles for GS1 (SGTIN, SSCC, GRAI, GIAI) and internal-use labeling. Tags can register automatically in Core.

2 Capture & Verify
TallyFlow Capture, Assets, Scout, and RFID infrastructure capture barcodes, photos, and tag reads at receiving and inspection. Scout can also verify GS1 barcode identity against RFID EPCs.

3 Stream & Track
TallyFlow Edge streams tag data from fixed readers and Scout remote handhelds. RFID GPIO supports reader triggers. When connected, Core provides zone-based tracking.

4 Report & Integrate
TallyFlow Core dashboards and exception reports support operational review. Use Core as your system of record, or connect with Core spreadsheet inputs, REST APIs, and webhooks. Edge adds ERP and API paths when needed.

Why teams use TallyFlow

Fewer receiving mistakes
Compare what you expected with what arrived, right at the dock.

Find things fast
See which area an item is in and how long it's been there. A handheld guides you to it.

Proof when it's disputed
Photos are tied to the job, order, or tag number. Claims and repair records take seconds to pull up.

Labels right the first time
Print and encode RFID and barcode labels to GS1 and your own formats, in batches or one at a time.

Pay for the job, not a platform
Capture, Print, and Edge each work on their own. Use your Impinj, Zebra, and other common readers and printers.

Fits your other systems
Spreadsheets, our API and webhooks, or Edge sending reads straight to your ERP.

Integrated Products

Each TallyFlow app does one job. Buy one, or connect several. TallyFlow is the software; our hardware partners supply readers, labels, printers, and installation.

TallyFlow Capture
VISUAL INTELLIGENCE FOR ASSETS

- Photo capture with barcode and RFID association
- Tagging and categorization by shipment, job number, location, or custom fields
- Automatic cloud sync across mobile devices and web

TallyFlow Print
TAG PRINTING AND RFID ENCODING

- Workflow profiles for GS1 SGTIN, SSCC, GRAI, GIAI, and internal-use barcode and RFID labeling
- GS1-128 support with GTIN-14 case labels and AI (21) serial handling
- FSMA 204 label templates and ZPL configs (SGTIN-based)

TallyFlow Edge
AI-ENABLED, RUST-POWERED EDGE FOR SITE RFID

- Hardware abstraction for Impinj and Zebra fixed readers and tunnels
- Remote reader API for handhelds (TallyFlow Scout)
- AI-enabled MCP tools for agents and assistants to query site readers, tags, and Edge & Print status

TallyFlow Scout
HANDHELD COLLECT, VERIFY, AND LOCATE FOR THE EDGE

- Collect — scan barcode/RFID; submit to Edge or export CSV when offline
- Verify — GS1 barcode vs RFID EPC identity (SGTIN, SSCC, GRAI, GIAI interoperability)
- Locate — offline seek-and-find by EPC hex, GTIN/GS1, or Internal part number

TallyFlow Core
CENTRAL COMMAND FOR ASSET INTELLIGENCE

- Spreadsheet inputs for assets and zone management
- REST API and webhooks for ERP and custom integrations
- Real-time exception tracking and detail views

TallyFlow Assets
ASSET INTELLIGENCE ON THE FLOOR

- Geiger-counter-style seek and find for one or multiple assets known to Core
- Lightweight inventory with optional zone moves
- Produce shipping for FSMA 204 growers

In the Field







Problems we solve

Receiving
Catch shortages and overages at the dock with RFID tunnels and mobile capture.

Where things are
Track items across receiving, storage, shipping, and delivery areas.

Missing or stuck items
Automatic alerts on shortages, extras, and items that haven't moved.

Freight claims and repair records
Photo proof you can pull up by job or order number.

Tag printing
Print and encode RFID labels on demand, registered in Core when connected.

Produce shipping & FSMA 204
End-to-end food traceability with mobile produce shipping workflows and compliance-ready label templates.

Find one item
A handheld that beeps faster as you get closer.

Integration Options

TallyFlow can run asset workflows on its own. When you need to connect out, TallyFlow Core provides spreadsheet inputs for assets, REST API and webhook endpoints, and import of expected shipment data. Edge adds keyboard wedge, intermediary database, spreadsheet output, and API paths for ERP and other systems. Those paths have been used with systems such as JD Edwards and BlueCherry.

- Core — spreadsheet inputs for assets
- Core — REST API and webhooks for custom ERP integrations
- Import expected shipment data from spreadsheets and AWBs
- Edge — keyboard wedge integration
- Edge — intermediary database integration
- Edge — spreadsheet output for ERP workflows

What Makes TallyFlow Different

- Works standalone as an operational system of record. ERP and system integration are available when you need them.
- RFID infrastructure, mobile capture, printing, and optional ERP integration in one product stack
- Multi-vendor hardware support for Impinj, Zebra, Atid, and other readers
- Zone notifications, delete events, and duration analytics for stuck-asset detection
- Verification workflows that fit existing receiving and inspection processes
- Practical deployment timelines. Many sites see useful results in weeks.

Customers using TallyFlow

Deployed in retail and apparel, manufacturing, logistics, agriculture, and repair and maintenance.

RETAIL FIXTURES / MANUFACTURING
Madix
Tens of thousands of pre-shipment photos a week for freight claims.

AGRICULTURE / FSMA
Houser's Produce Farm
End-to-end food traceability and FSMA 204 compliance across their produce supply chain.

REPAIR & MAINTENANCE / MANUFACTURING
Component Repair Technologies
Tracking high-value parts through repair and maintenance.

Industries we serve

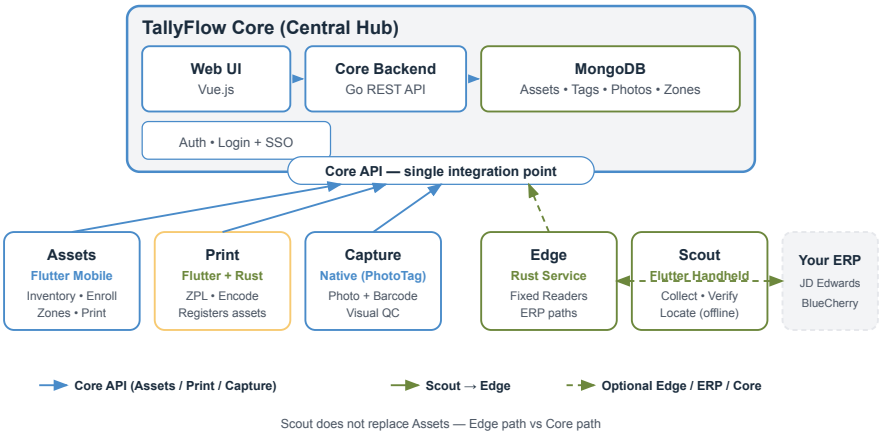
Retail, Apparel, and Fixtures | Manufacturing | Logistics | Agriculture | Repair and Maintenance

TallyFlow is modular RFID and barcode software for operations that rely on physical assets, tools, and tagged items. It is designed to reduce time and material waste. The stack includes TallyFlow Core (web), Assets and Capture (mobile), Edge and Scout (site RFID), and Print (encoding and labeling).

Technology & Architecture

Core-connected modules (Assets, Print, Capture) integrate through TallyFlow Core. Core is a Go backend and Vue.js web hub with MongoDB. Edge and Scout form the optional site stack for fixed readers and handheld Collect / Verify / Locate.

Assets, Print, and Capture connect through Core. Scout connects to Edge. Edge and ERP connections are optional.



Scout does not replace Assets — Edge path vs Core path

TallyFlow Core

Go REST API • Vue.js web UI • MongoDB

Central hub for assets, tags, photos, zones, and events. Includes spreadsheet inputs for assets, REST API and webhooks, and a web UI to display and filter Capture photos. Auth supports login and SSO.

TallyFlow Assets

Flutter (iOS & Android)

Core-connected seek-and-find, inventory, enrollment, and zone moves via REST/WebSocket.

TallyFlow Print

Flutter + Rust • ZPL (Zebra & compatible)

Label printing, RFID encoding, and Print UI. Printed items can register directly in Core.

TallyFlow Capture

Native mobile (PhotoTag)

Photo and barcode capture with cloud sync, search, and enterprise access control.

TallyFlow Edge

AI-enabled Rust • Impinj & Zebra readers

Fixed readers, tunnels, MCP tools for agents (readers, tags, and Edge & Print status), remote reader API for Scout, GPIO triggers, and sensor data. ERP integration via keyboard wedge, database, spreadsheet, or API on Windows or Linux.

TallyFlow Scout

Flutter handheld • Edge remote reader

Collect / Verify / Locate for Edge sites. Submit to Edge or export CSV. Locate works offline. Does not replace Assets.

Deployment & Integration

- Cloud-hosted or on-premises Core and Edge
- Core + Assets path for inventory, enrollment, and zones
- Edge + Scout path for site readers and handheld Collect/Verify/Locate
- Core spreadsheet inputs for assets
- Core REST API and webhooks for ERP and custom integrations
- Import expected shipment data from spreadsheets and AWBs
- Edge ERP integration: keyboard wedge, intermediary database, spreadsheet output, API
- Multi-vendor hardware: Impinj, Zebra readers and printers

Get Started

Schedule a Demo

See TallyFlow in action with a walkthrough tailored to your workflows and industry.

Request Pricing

Get a quote based on your facility size, reader count, and integration needs.

See TallyFlow in your operation

Email: info@sdgsystems.com **Web:** tallyflow.com **Company:** SDG Systems, LLC — Harmony, PA

© 2026 SDG Systems, LLC. All rights reserved.