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BarTender Track & Trace

Technical Overview: Getting to Know Track & Trace

Early Access Version



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Overview

BarTender Track & Trace is a turnkey inventory tracking solution that combines smart labeling, real-time location visibility, and intuitive interfaces to give organizations full control over their physical assets. Built for high-value, high-velocity environments, it uses RFID and barcode technologies to eliminate asset loss, improve inventory accuracy, and drive operational efficiency.

Functional Overview

BarTender Track & Trace offers a complete feature set to support the end-to-end asset tracking lifecycle:

- **Receive Assets and Inventory**
 - Receive RFID- or barcode-labeled assets
- **Shipping Assets in the Inventory**
 - Ship RFID - or barcode-labeled assets
- **Perform Inventory Audits**
 - Zone-based cycle counting with 98%+ accuracy
- **Create and Assign Picklists**
 - Create picklists for item retrieval and preparation
 - Integrated with find and validation tools to guide operators
- **Perform Item Checks**
 - Scan items to access full metadata, plus last seen timestamp, location, status
 - Validate placement or assignment on the spot
- **Move and Reallocate Items**
 - Update asset status and zone during movement between locations
 - Full audit trail of transfers
- **Find Items Quickly with RFID**
 - *Geiger counter* functionality to narrow search area for specific assets
 - Audible and visual feedback through handheld RFID readers

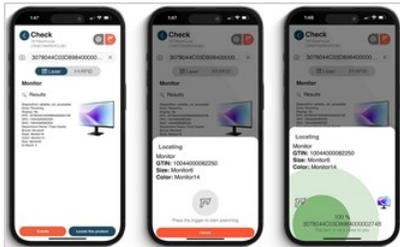
Rapid inventory checks and cycle counts can be done in minutes rather than days with over 99% accuracy.

Track & Trace System Components

There are two components to BarTender Track & Trace

1. BarTender Designer
2. Mobile App

Used for scanning, location tracking, and operator workflows.



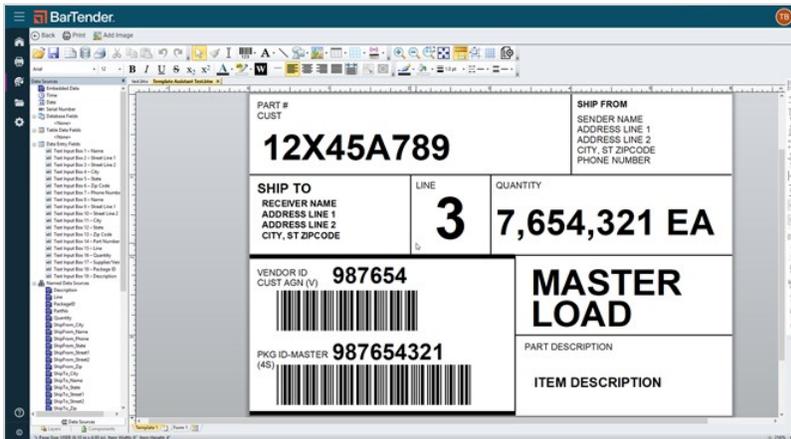
3. Track & Trace Core

The web-based backend for logic, data, and reporting console.



Label Creating with BarTender

BarTender Designer enables the creation of Track & Trace compliant labels.



This component is not included in the BarTender Track & Trace product. Although a critical component of BarTender Track & Trace, it is *not* required if a customer can encode their own tags.

Deployment, Scalability, and Security

BarTender Track & Trace is a cloud-connected, lightweight platform requiring only a web browser for administrative tasks and a mobile computing device for field operations.

GCP Hosted



Built with enterprise-grade security (SOC 2 Type 2, ISO 27001 certified infrastructure)



Zero customer infrastructure required



Deployment Process Overview

Task	Partner	Sales	Sales Engineer (SE)	Professional Services (PS)
Determine Use Case and Workflows	R (Responsible – provides customer context, business processes)	A (Consulted – ensures fit with opportunity/sales cycle)	A (Accountable – validates technical feasibility, advises on workflows)	I (Informed – kept in loop for eventual delivery)
Define System Prerequisites	R (Responsible – provides customer details)	I (Informed – aware of what’s needed for sale closure)	R/A (Responsible & Accountable – defines technical prerequisites)	I (Informed – prepares for handoff)
Provide Configured Tenant	I (Informed – receives tenant for use)	I (Informed – needs visibility for customer comms)	C (Consulted – may help validate configuration aligns with prerequisites)	R/A (Responsible & Accountable – delivers configured tenant)

System Prerequisites

System pre-requisites are defined before tenant creation and the following attributes should be defined prior to any implementation tasks.

- *Users*

User are assigned roles based on the role definitions configured in Track & Trace:

- Operator Role
- Site Manager
- Global Manager
- Admin

- *Products*

The products/assets to be tracked must be identified and defined in a .csv file. (see *Product File* below)

- *Facilities, Zones, and Maps*

- *Facilities* are defined as separate geographic locations, for example:
 - Warehouse
 - Factory
- Each facility has associated *zones* that enable the user to locate assets and items. Zones can be named according to the customer needs. Common examples are:
 - Receiving
 - Storage Area 1
 - Storage Area 2
 - Storage Area 3
 - Production Line 1
 - Production Line 2
 - Inspection Zone
 - Packing
 - Shipping

- Each facility can have a *map* of the zones to enable the operator to quickly search and locate specific items.



Product File

BarTender Track & Trace uses a standardized product file to preload item master data into the system.

GTIN	SKU	SKU Description	categoryLevel1Code	categoryLevel1Label	categoryLevel2Code	categoryLevel
00040049999002	LPK1K	AED Physio-Control LIFEPAK 1000	MEDDEVICE	Medical Devices		
00040049999003	MM630	Insulin Pump MiniMed 630	MEDDEVICE	Medical Devices		
00040049999004	S450P	Defibrillator Samaritan 450P	MEDDEVICE	Medical Devices		
00040049999005	ADV2	Blood Pressure Monitor Advivue 2	MEDDEVICE	Medical Devices		
00400499990026	LPK1K	AED Physio-Control LIFEPAK 1000	MEDDEVICE	Medical Devices		
00400499990033	MM630	Insulin Pump MiniMed 630	MEDDEVICE	Medical Devices		
00400499990040	S450P	Defibrillator Samaritan 450P	MEDDEVICE	Medical Devices		
00400499990057	ADV2	Blood Pressure Monitor Advivue 2	MEDDEVICE	Medical Devices		
00400499990064	ADV2	Blood Pressure Monitor Advivue 2	MEDDEVICE	Medical Devices		
00400499990071	ADV2	Blood Pressure Monitor Advivue 2	MEDDEVICE	Medical Devices		

- Product File Format:** A .csv template is used to define products and their attributes. Typical fields in the .csv include:
 - GTIN:** The product's GTIN, including leading zeros (14 digits)*
 - productCode:** The product's SKU (11 digits)*
 - productLabelShort:** A short description for the product*

- **productLabelLong:** A detailed description of the product
- **categoryParentCode:** Level 1 category code*
- **categoryParent:** Level 1 category *
- **optionCode:** Level 2 category code*
- **optionLabel:** Level 2 category *
- **majorClassCode:** Level 3 category code
- **majorClassName:** Level 3 category
- **classCode:** Level 4 category code
- **className:** Level 4 category
- **sizeCode:** Size code
- **sizeLabel:** Size description
- **brandCode:** Brand code*
- **brandLabel:** Brand description*
- **prices:** The product's price
- **pictureGeneric:** The image's URL*
A valid URL is required to reference the image location.
- **seasonCode:** Season code
- **seasonLabel:** Season description
- **colorCode:** Color code
- **colorLabel:** Color description
- **modelCode:** The product's model code*

- **modelLabel1**: The product's model description*

- **SFTP Upload:** The Seagull team provides SFTP credentials for secure file upload. The uploaded file is automatically ingested into the system.
- **Modifying and Adding Products:** Additional Product .csv files can be uploaded to modify or update existing products, or to add additional products.

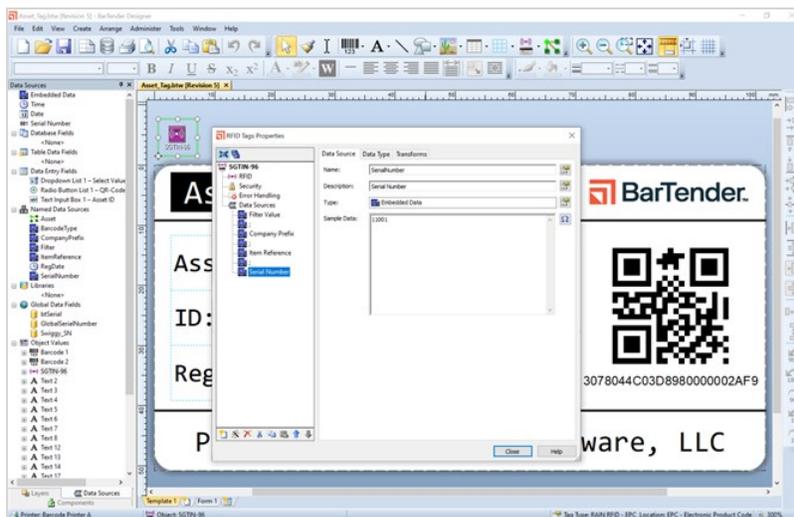


The product file for new products must be uploaded before scanning the tagged items; otherwise, the products display as *unknown*.

- **Review Products:** Once uploaded, products can be reviewed and validated in the BarTender Track & Trace Console before use in mobile workflows.

RFID and Barcode Support

BarTender Track & Trace supports asset tagging through both RFID and barcode labeling, using a standardized serialization scheme.



- **Serialization:** All items must be encoded using SGTIN-96 to ensure unique and consistent identification across systems.
- **RFID:** Only UHF Gen2 RFID tags encoded with SGTIN-96 EPC are supported.
- **Barcodes:** Barcodes must contain SGTIN-96 data encoded in hexadecimal format, maintaining consistency with the SGTIN-96 standard, including serialization.
- **GS1 Compliant:** Fully compliant with GS1 standards for SGTIN-96, including Company Prefix, Item Reference, and Serial Number structures.

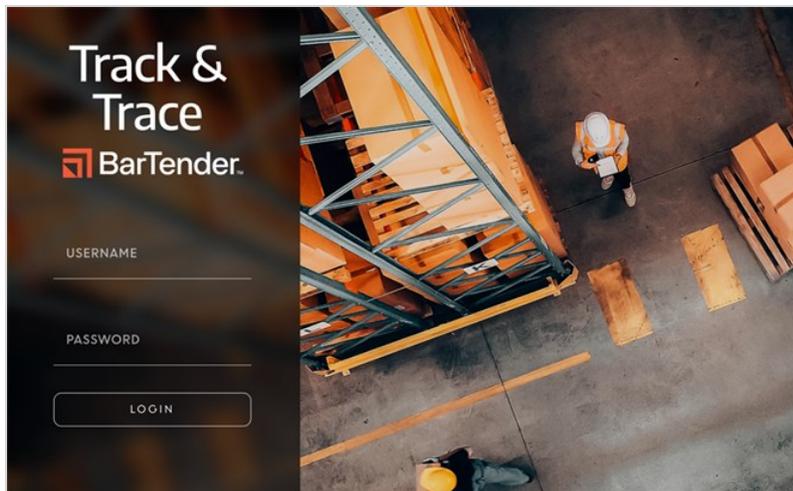
- **BarTender Templates:** Seagull provides ready-to-use label and tag templates configured for SGTIN-96 encoding and GS1 compliance.

Logging into the Track & Trace Console

Users access the Track & Trace Console via a secure HTTPS URL given to them by the Seagull team. Operators' authorization is limited by permissions and operators do not have access to all features.

- User access is provisioned by Seagull based on prerequisites and assigned to a role.
- Login is secure and HTTPS-encrypted, with unique credentials per user.
- The web console is used for reviewing product data and tracking activity.

Logging into the Mobile App



Operators access BarTender Track & Trace through the Android or iOS mobile application. These applications can be downloaded through the Play Store or the Apple Store.

- Seagull provides a link to download the application.
- Login credentials are the same as those provisioned for the BarTender Track & Trace Console.
- The mobile app enforces role-based permissions, limiting available workflows based on user type (e.g., Operator, Auditor).
- A login session is persistent, but users may be logged out periodically for security purposes.
- Application access is secured via HTTPS communication with the backend.
- A QR code is provided by Seagull to simplify initial app setup and connectivity.

Technical Specifications

Track and Trace features provide flexibility while preserving scalability.

User Roles & Security

- Pre-defined roles include Global Manager, Site Manager, and Operator.
- Supports multiple user accounts with individual credentials and permissions.
- Operator and Site Manager roles are assigned to a specific location. The Global Manager has access to every location.

Reporting

The reporting console provides access to a number of reports. The console features the following:

- The ability to download report contents as a .csv file
- Dashboard showing the status of shipping and receiving events
- Snapshots of current inventory
- The ability to filter the data by facility, zone, and product properties

Available Dispositions

- Active
- Destroyed
- Dispensed
- In Progress
- Picked
- Sellable Accessible
- Sellable Not Accessible
- Serialized

Standards & Compliance

- EPC Gen2 UHF RFID support
- GS1-compliant labeling
- Supports SGTIN-96

System Requirements

- **Web Console:** Accessible via modern browsers (Chrome, Edge, Firefox)
- **Mobile App:** Android 10 or newer with RFID or barcode scanning capabilities
- **Printers:** Compatible with BarTender-supported RFID and barcode printers

Hosting Locations

Seagull currently hosts Track & Trace exclusively in the United States. However, European hosting will be available soon.

US-Central Region/Zone 1

Application Gateway	Webapps	Business APIs	Micro Sevices	Ingestion Streams Apps	SQL
		Distributed Event Messaging			NoSQL

US-Central Region/Zone 2

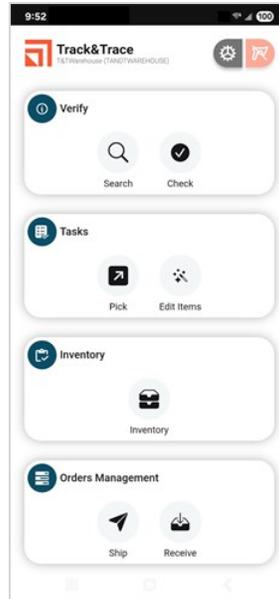
Application Gateway	Webapps	Business APIs	Micro Sevices	Ingest & ETL Streams Apps	SQL
		Distributed Event Messaging			NoSQL

US-Central Region/Zone 3

Application Gateway	Webapps	Business APIs	Micro Sevices	Ingestion Streams Apps	SQL
		Distributed Event Messaging			NoSQL

Home Screen

The home screen of the Bartender Track & Trace mobile app enables access to the various workflows categorized by workflow type.



Verify

Enables the operator to search for items, view existing data and lifecycle details, and generate picklists.

Tasks

Provides the ability to use a picklist to locate specific assets. Operators can also assign items to zones or locations and update their disposition status.

Inventory

Supports inventory audits and enables operators to move items to designated areas.

Orders Management

Facilitates the receipt and shipment of assets between facilities or with external partners.



Displayed modules may vary depending on user roles, resources, and assigned licenses.

Mobile Workflows

Workflows determine the available actions within BarTender Track & Trace.

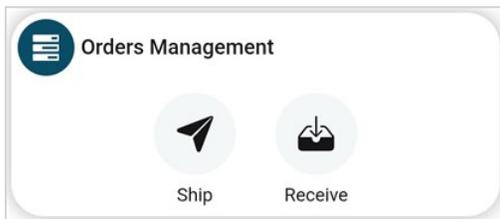
Receiving Assets from a Customer

Use the Receive module to add assets to a facility's inventory.

- If the inventory has not already been labeled with compliant labeling, print asset tags and labels. *Optional.*



- Use the Receive function in the Track & Trace app.



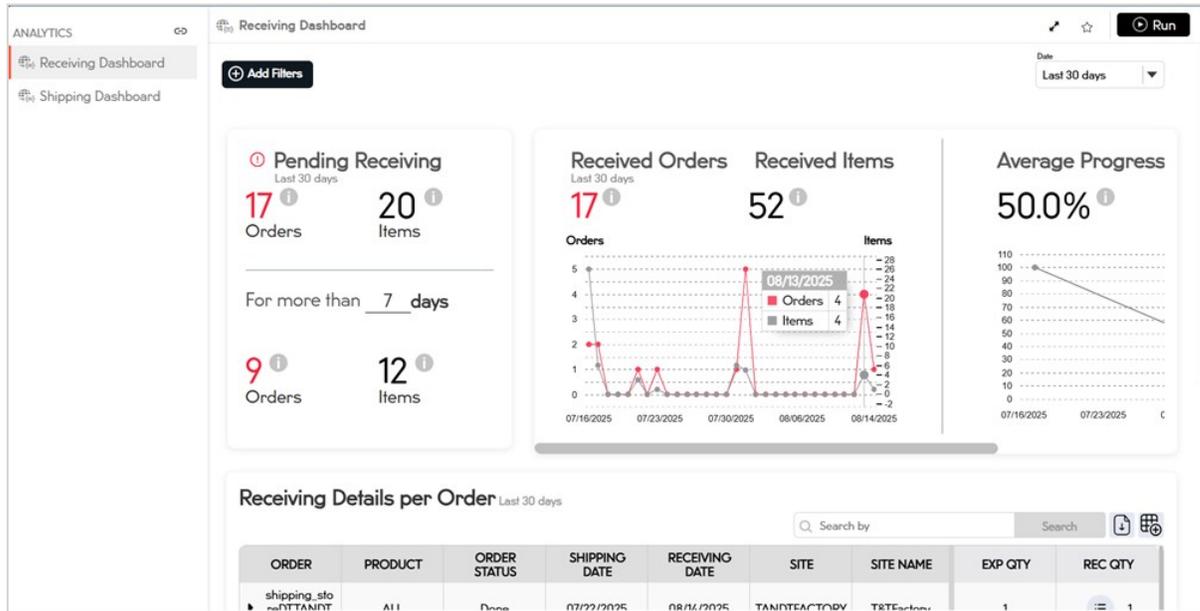
- Create a blind receiving process.



- Save the data.



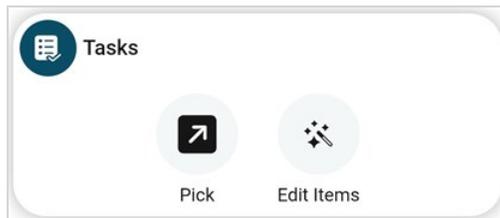
- View the data in the Receiving dashboard.



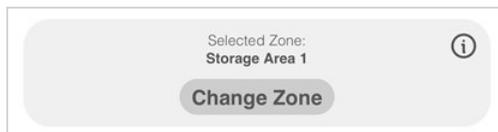
Assigning Assets to a Zone

Zones enable a user to identify the physical locations where assets are housed.

- Use the Edit Items function on the Track & Trace app.

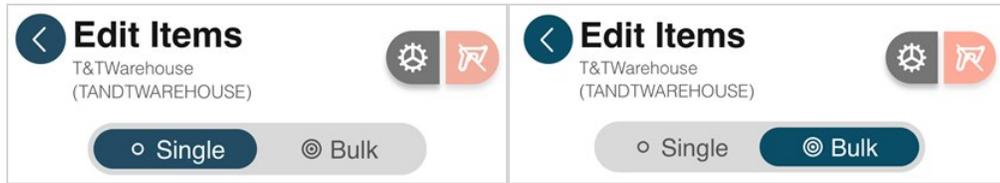


- Select a new location.

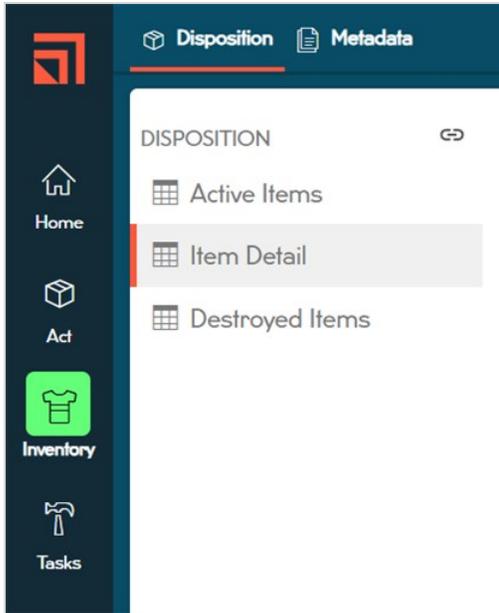


If you are scanning assets in bulk, you must also select a disposition

- Scan the assets



- Review the results in the Item Detail dashboard.

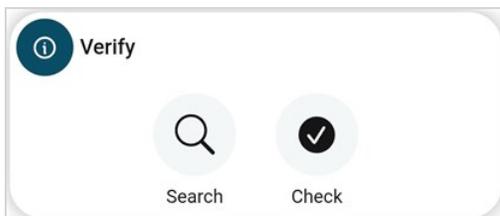


If you changed the disposition, the change is evaluated by the Item LifeCycle rules defined in the console.

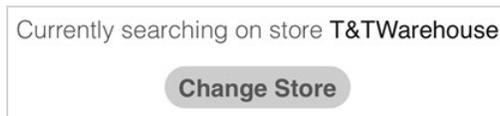
Searching Inventory

The Search module enables users to locate items and view their positions, and to add these items to a pick list.

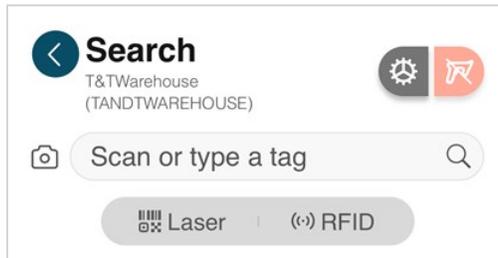
- Use the Edit Items function on the Track & Trace app.



- Select a store to search.



- Select the type of tag to be read.



- Scan the items and add them to the pick list.

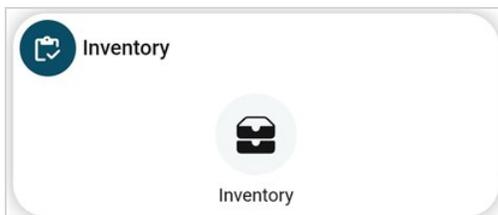


- Tap  to create a pick list.

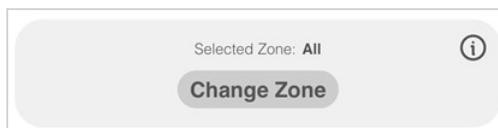
Conducting an Audit of Existing Assets

Use the Inventory module to oversee assets.

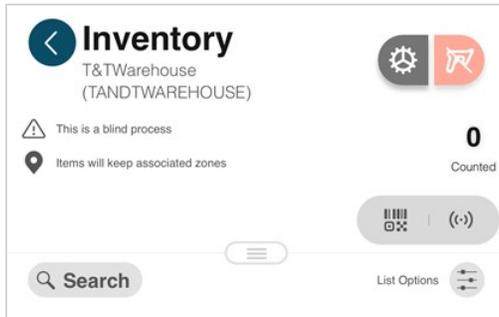
- Use Inventory module on the Track & Trace app.



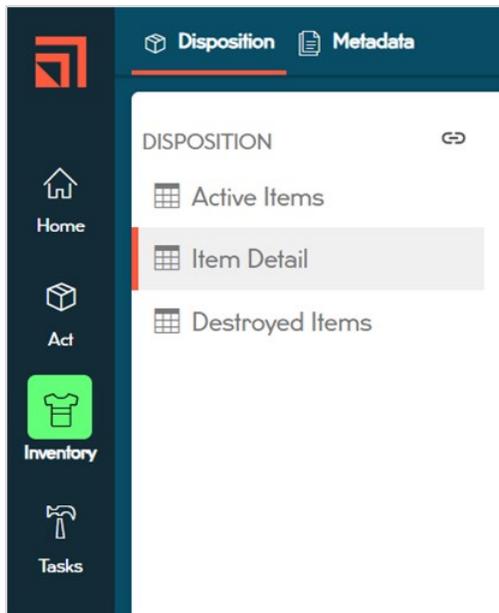
- To conduct an audit of all existing assets, leave the Selected Zone at All.



- Scan the assets.



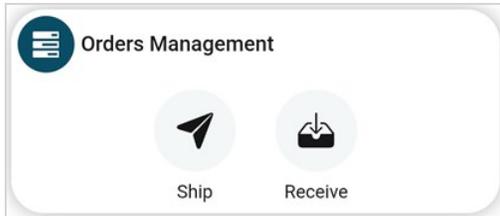
- Review the results.



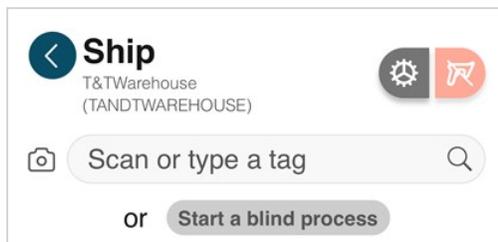
Shipping Assets to a Different Facility or Customer Location

Use the Ship module to count items for shipment or transfer.

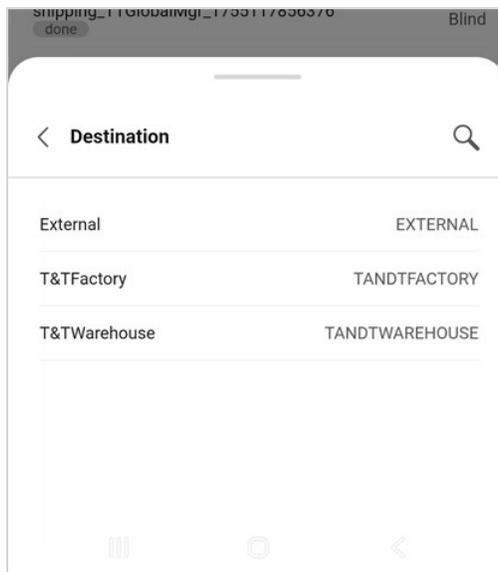
- Use the Ship module on the Track & Trace app.



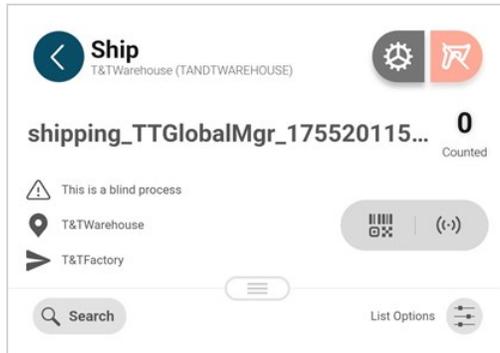
- Start a blind process.



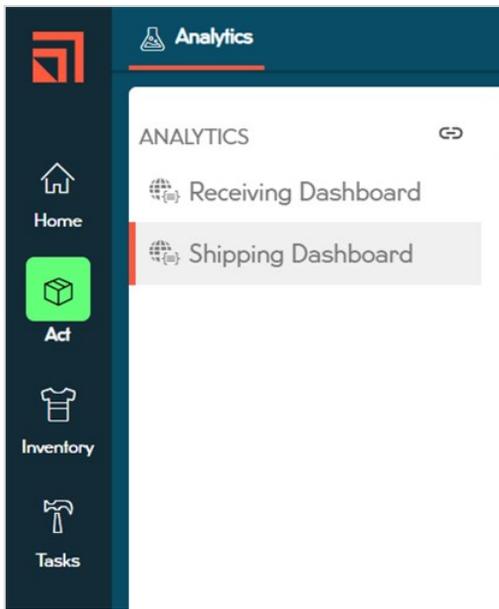
- Select the destination facility.



- Scan the assets and save.



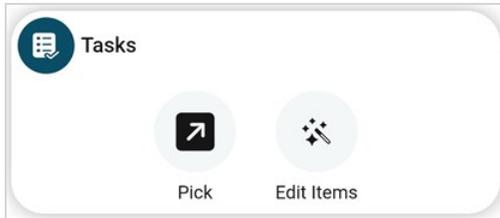
- Review the results on Shipping dashboard



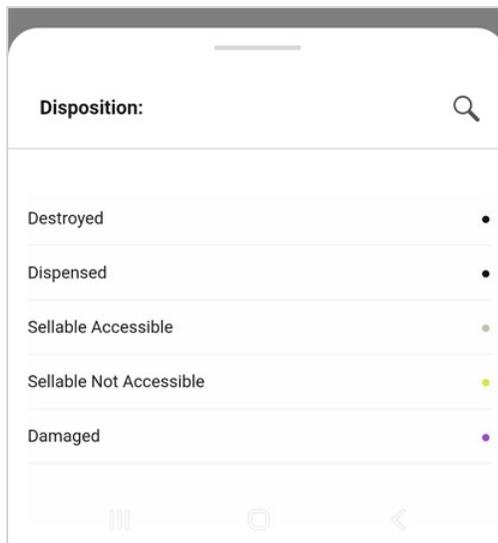
Removing Damaged, Dispensed, or Consumed Items from Inventory

Keep the inventory current by adjusting for damaged, dispensed, or consumed assets.

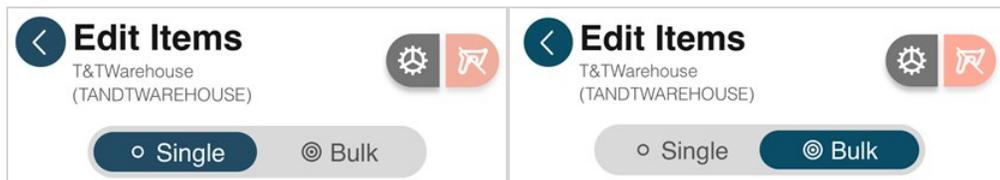
- Use the Edit Items function on the Track & Trace app.



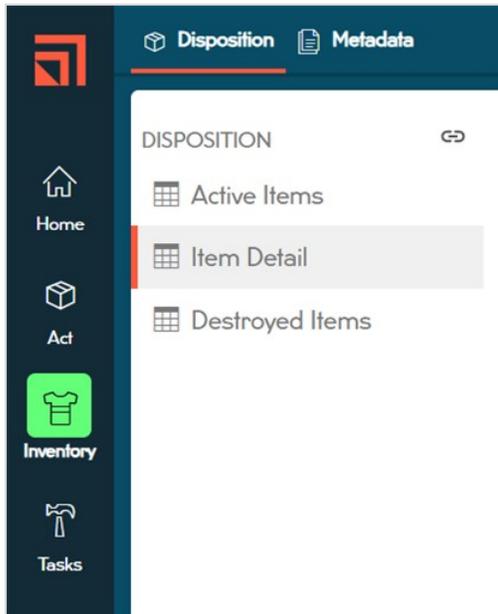
- Select a new status: Damaged or Dispensed.



- Scan the assets.



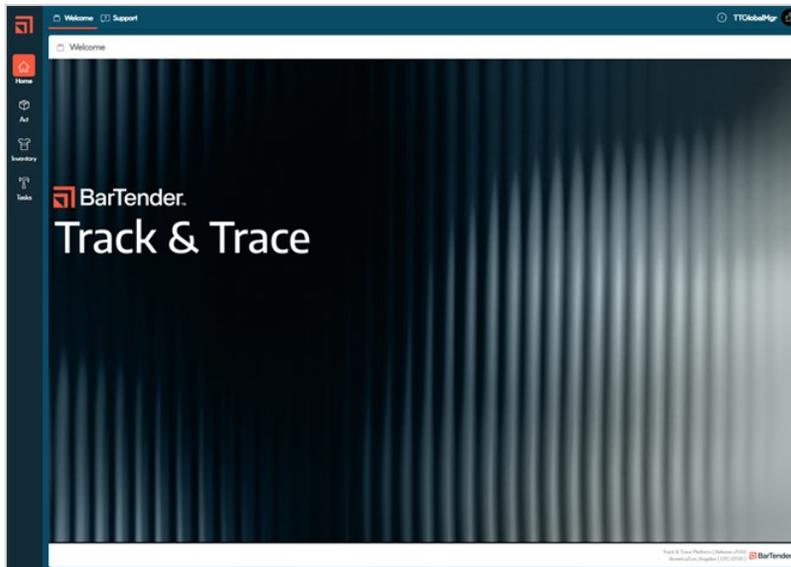
- Review the results in the Item Detail dashboard.



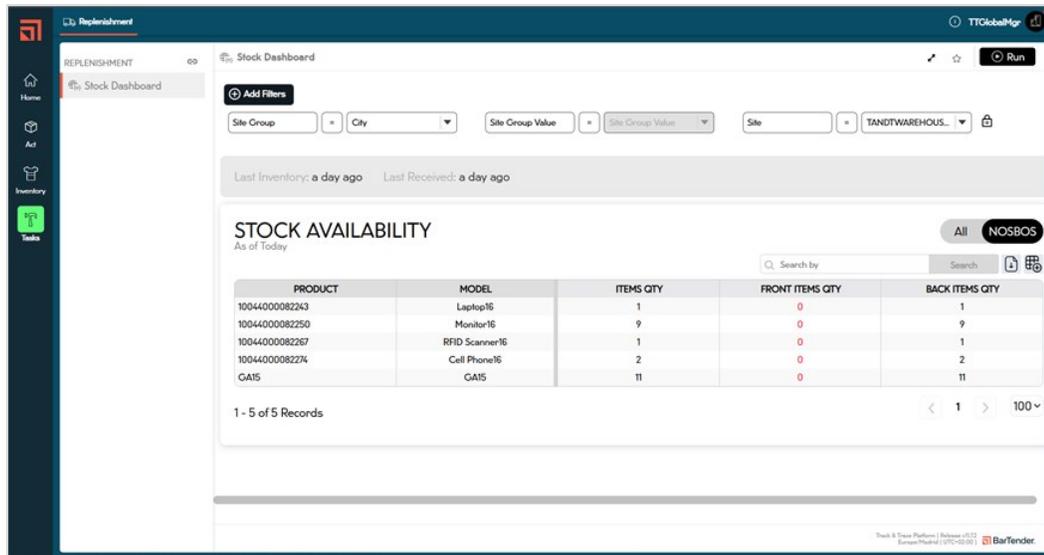
Reports: View the current asset inventory

The Track & Trace Console enables an administrator to oversee the facility's inventory with different views and reports.

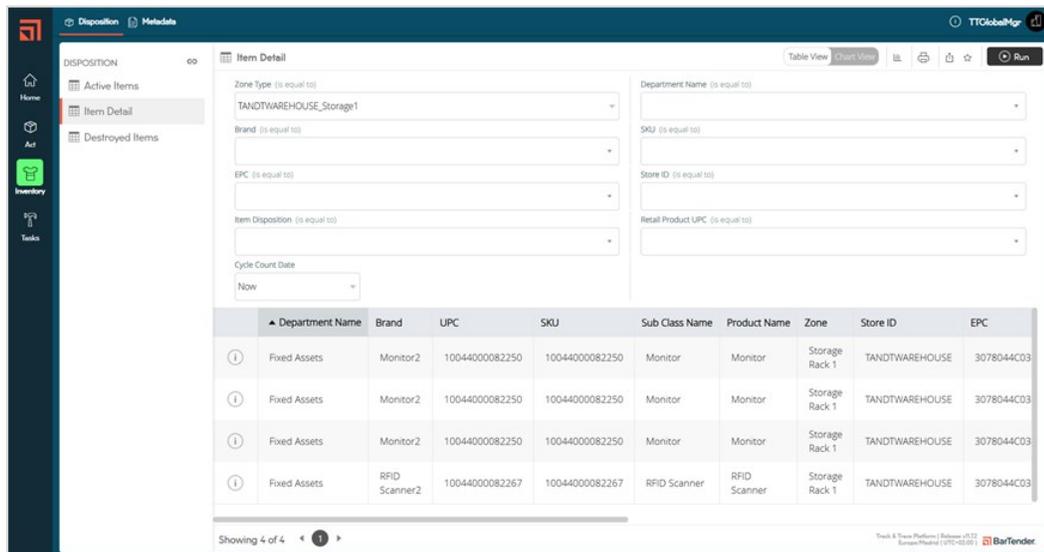
- Open the BarTender Track & Trace Console.



- To view the asset inventory, do one or both of the following:
 - Select Tasks, then Stock Dashboard to review current inventory.



- Select Inventory, then Item Detail to view current inventory by zone.



Related Documentation

Technical Documents

To view and download technical documents, visit:

<https://www.bartendersoftware.com/resources/library>

User Guides

- [Getting Started with BarTender](#)
- [Getting Started with BarTender Cloud](#)

BarTender Help Systems

- [BarTender](#)
- [BarTender Cloud](#)

Other Resources

Please visit the BarTender website at <https://www.bartendersoftware.com>.

bartendersoftware.com

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