

USER GUIDE

AL Tracking

TRK

AL Tracking extends the traceability of Business Central by adding Package (carton), Pallet (SSCC) and External Lot (supplier lot/carton) dimensions to the standard Lot/Serial, across documents,

AL Tracking extends the traceability of Business Central by adding Package (carton), Pallet (SSCC) and External Lot (supplier lot/carton) dimensions to the standard Lot/Serial, across documents, journals, warehouse and production. This guide covers setup and daily use.

1. Concepts in one minute

- Standard Business Central tracks **Lot** and **Serial**. AL Tracking adds three more dimensions: **Package No.** (the carton), **Pallet No.** (the SSCC) and **External Lot No.** (the supplier's lot/carton number).
- Tracking is switched on **per area** in the Tracking Setup: the extra fields and actions appear only on the areas you enable (sales, purchases, transfers, journals, physical inventory, production, warehouse).
- Which dimensions an item uses is decided by its **Item Tracking Code**, exactly as for the standard Lot/Serial: the code gains Pallet and ExternalLot sections with the same specific-tracking and per-document requirements.
- On posting, the dimensions flow into the **Item Ledger Entries** and **Warehouse Entries**, so stock and history can be filtered and navigated by pallet and external lot as well as by lot and serial.
- **Pallet No. Information** and **ExternalLot No. Information** records are the master data of the new dimensions, and are created automatically at posting when missing.

2. Prerequisites

- Business Central 28.0 or higher (Cloud/SaaS).
- The dependencies installed: **AL License and Trial Management**, **AL Message Passing**, **AL Role Center**.
- Permissions: two assignable permission sets. Give **ALPTRK-USER** (AL Tracking - User) to whoever assigns tracking on documents, journals and warehouse activities: it reads the setup without changing it. Give **ALPTRK-ADMIN** (AL Tracking - Administrator) to whoever configures the app: it includes the user role and adds the setup and the right to block or delete a pallet or external lot card. A user who opens the Tracking Setup action from the role center without the administrator role gets a permission error, which is the expected behaviour.

You reach the app from **Tell Me**: search the page name (for example "Tracking Setup (TRK)") or simply the tag "TRK" to list every page of the app.

3. Setup

3.1 Activate the license

Open **Tracking Setup (TRK)** (the record is created on first open). Use **Add License** to enter a license when you have one; a trial is available for evaluation.

3.2 Enable the areas to track

On **Tracking Setup (TRK)**, turn on the areas where the extra dimensions must appear:

- **Sales Line Tracking, Purchase Line Tracking, Transfer Line Tracking;**
- **Item Journal Tracking, Item Reclass Tracking, Phys Inventory Jrnl. Tracking;**
- **Consumption Journal Tracking, Output Journal Tracking;**
- **Warehouse Receipt Tracking, Warehouse Shipment Tracking, Whse Internal Pick Tracking, Int. Putaway Subform Tracking;**
- **Item Tracking Line Tracking** (the extended Item Tracking Lines) and **Item Tracking Code Tracking** (the extended Item Tracking Code card).

Use **Select All** to enable everything at once. An area that stays off keeps the standard Business Central behavior.

The screenshot displays the 'Tracking Setup (TRK)' page in Dynamics 365 Business Central. The page is titled 'Tracking Setup (TRK)' and has a 'General' section. Under 'General', there are two columns of tracking options, each with a toggle switch. All toggles are currently turned on. The options are:

- Select All
- Consumption Journal Tracking
- Output Journal Tracking
- Int. Putaway Subform Tracking
- Item Journal Tracking
- Item Reclass Tracking
- Item Tracking Code Tracking
- Item Tracking Line Tracking
- Phys Inventory Jrnl. Tracking
- Purchase Line Tracking
- Sales Line Tracking
- Transfer Line Tracking
- Warehouse Receipt Tracking
- Warehouse Shipment Tracking
- Whse Internal Pick Tracking

The top navigation bar shows 'Dynamics 365 Business Central' and 'Environment: bc28-w1'. The bottom of the page has a 'Tracking Setup' label.

Tracking Setup

3.3 Configure the Item Tracking Code

Open the **Item Tracking Code** of the item (with **Item Tracking Code Tracking** enabled in the setup, the card shows two new sections):

- **Pallet Tracking - Pallet Specific Tracking** works like the standard lot-specific tracking: on outbound you must state which existing pallet you handle. The Inbound and Outbound groups let you require the pallet number per document type (purchase, sales, positive/negative adjustment, assembly, manufacturing), plus **Pallet Warehouse Tracking** and **Pallet Transfer Tracking**. **Pallet No. Info. Must Exist** requires an information record before posting.

- **ExternalLot Tracking** - the same set of options for the supplier's external lot: **ExternalLot Specific Tracking**, per-document requirements, warehouse and transfer tracking, and **ExternalLot No. Info. Must Exist**.

Assign the tracking code to the items as usual.

Dynamics 365 Business Central

Environment: bc28-w1

Item Tracking Codes

+ New

Manage

Code ↑	Description	SN Specific Tracking	Lot Specific Tracking	Pallet Specific Tracking	ExternalLot Specific Tracking	Package Specific Tracking
FREEENTRY	Free entry of tracking	☐	☐	☐	☐	☐
LOTALL	Lot specific tracking	☐	☒	☐	☐	☐
LOTALLEXP	Lot specific tracking, manual Expiration	☐	☒	☐	☐	☐
LOTSNSALES	Lot specific SN Sales Tracking	☐	☒	☐	☐	☐
SNALL	SN specific tracking	☒	☐	☐	☐	☐
SN-PROD	SN specific tracking for manufacturing	☒	☐	☐	☐	☐
SNSALES	SN Sales tracking	☐	☐	☐	☐	☐
LOT-ALL	Lot, package, pallet and external lot	☐	☒	☒	☒	☒

Item Tracking Code list

Open the code to review the settings per document type: enabling Pallet Specific Tracking switches on the whole pallet section (warehouse, purchase, sales, adjustments, transfer, assembly and manufacturing), and the external lot section behaves the same way.

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Item Tracking Code Card

LOT-ALL · Lot, package, pallet and external lot

Pallet Tracking

General

Pallet Specific Tracking ☒

Inbound

Pallet Info. Inbound Must Exist ☒

Pallet Purchase Inbound Tracking ☒

Pallet Sales Inbound Tracking ☒

Pallet Pos. Adj. Inbound Tracking ☒

Pallet Neg. Adj. Inbound Tracking ☒

Pallet Assembly Inbound Tracking ☒

Pallet Manuf. Inbound Tracking ☒

Outbound

Pallet Warehouse Tracking ☒

Pallet Transfer Tracking ☒

Pallet Info. Outbound Must Exist ☒

Pallet Purchase Outbound Tracking ☒

Pallet Sales Outbound Tracking ☒

Pallet Pos. Adj. Outbound Tracking ☒

Pallet Neg. Adj. Outbound Tracking ☒

Pallet Assembly Outbound Tracking ☒

Pallet Manuf. Outbound Tracking ☒

ExternalLot Tracking

Item Tracking Code card

4. Daily use

4.1 Item journal and reclassification

With **Item Journal Tracking** enabled, the item journal lines show the tracking fields directly on the line: **Lot No.**, **Serial No.**, **Package No.**, **Pallet No.** and **ExternalLot No.** (each visible only if at least one tracking code uses that dimension).

1. Enter the journal line as usual.
2. Fill the tracking fields: type the values, or use the assist button on each field to pick from the existing combinations in inventory.
3. Or run **Assign Tracking** (Functions group) to assign lot, serial, package, pallet and external lot - with expiration date and quantity - in one step.
4. Post: the dimensions land in the item ledger entries.

The **Item Reclassification Journal** works the same way and carries the old and new values, so a reclassification can move quantity from one pallet or external lot to another.

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Item Journals ✓ Saved

Batch Name: TRACKING

Manage Home Request Approval Line Page More options

Import from Excel Post | ✓ Print... Recalculate Unit Amount Assign Tracking
 Delete All Lines Calculate Warehouse Adjustment... Get Standard Journals... Explode BOM Weigh

Posting Date	Entry Type	Document No.	Item No.	Description	Location Code	Quantity	Lot No.	Package No.	Pallet No.	External Lot No.
→ 01/07/2027	Positive Adj.	T00001	TRK-PALLET	Tracked pallet demo item	EAST	10	LOT-A	PKG-A	PAL-A	EXT-A

Item Description
Tracked pallet demo item

Item journal with Assign Tracking

4.2 Physical inventory by traceability

On the **Physical Inventory Journal** (area **Phys Inventory Jrnl. Tracking**), the app replaces the standard calculation with **Calculate Inventory by Traceability (TRK)**:

1. Run **Calculate Inventory** (Functions group). The request page accepts the usual filters (Item No., Location, Bin).
2. The journal is filled with one line per tracking combination - lot, serial, package, pallet, external lot - instead of one line per item, on both standard and bin-managed locations.
3. Count, enter the physical quantities per combination, and use **Assign Tracking** for the corrections that need new tracking values.
4. Post: the differences are written per tracking combination.

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Physical Inventory Journals ✓ Saved

Batch Name: DEFAULT

Manage Home Request Approval Prepare Line Item Item Availability by Page More options

Import from Excel Delete All Lines Post Print... Calculate Inventory... Assign Tracking Weigh

	Posting Date	Entry Type	Document No.	Item No.	Description	Qty. (Calculated)	Qty. (Phys. Inventory)	Lot No.	Package No.	Pallet No.	External Lot No.
	01/07/2027	Positive Ad...	INV-TRK	TRK-PALLET	Tracked pallet demo item	10	10	LOT-A	PKG-A	PAL-A	EXT-A
→	01/07/2027	Positive Ad...	INV-TRK	TRK-PALLET	Tracked pallet demo item	10	10	LOT-B	PKG-B	PAL-A	EXT-B

Item Description
Tracked pallet demo item

Calculate Inventory by Traceability

The lines are split by the full tracking key, not by a single dimension: the same pallet carrying two different lots produces two lines, so a mixed pallet is counted lot by lot.

4.3 Sales, purchase and transfer lines

With the corresponding areas enabled, the document lines show the tracking dimensions and an assignment action:

- **Sales order** and **Purchase order** lines: **Assign Tracking** assigns the dimensions for the line quantity.
- **Transfer order** lines: **Assign Shipment Lot** and **Assign Receipt Lot** assign the tracking separately for the shipment and the receipt side.
- The assist button on the tracking fields filters the existing combinations for the item, and tracking can also be retrieved from posted shipments, receipts and invoices.

4.4 Consumption and output journals

With **Consumption Journal Tracking** and **Output Journal Tracking** enabled, the production journals carry the same tracking fields and the **Assign Tracking** action:

- **Consumption Journal**: assign which lot/package/pallet/external lot is consumed by the production order components.
- **Output Journal**: assign the tracking of the finished output.
- The same fields and actions are available on the **Production Journal** and the released production order lines.

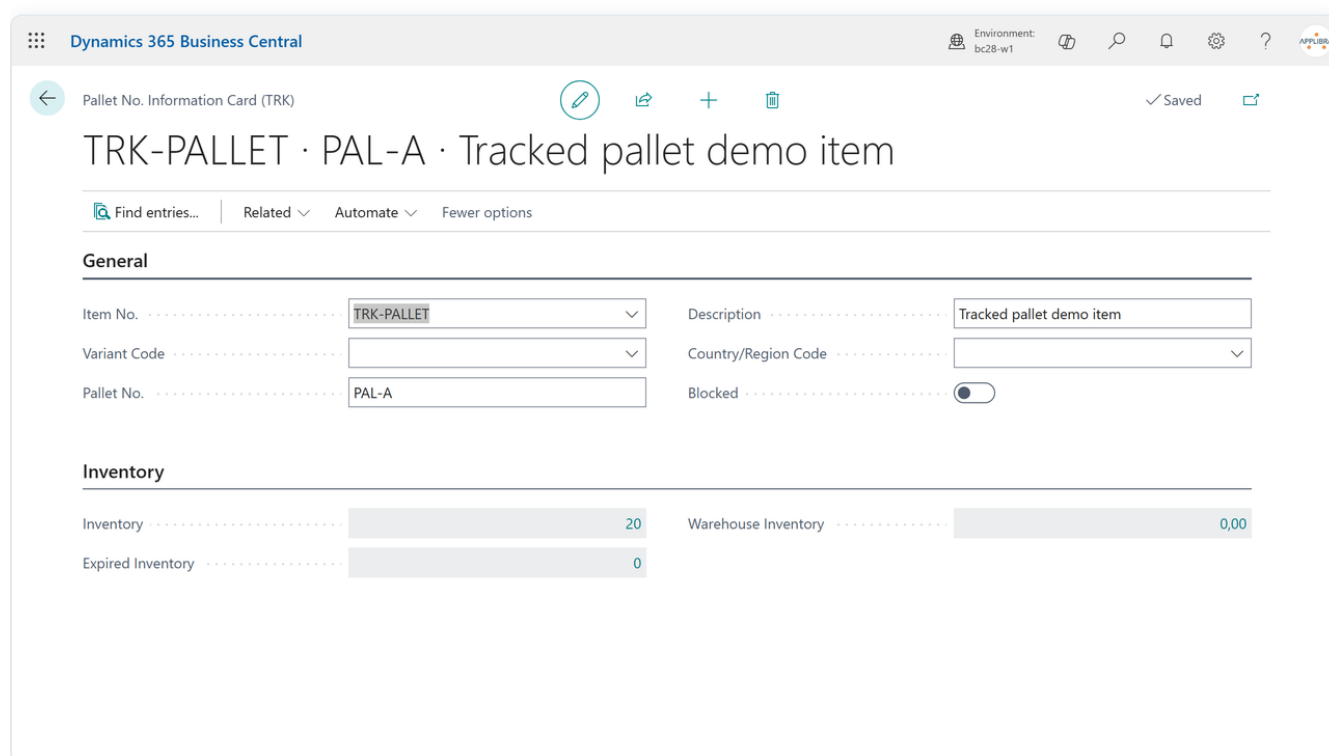
4.5 Warehouse

The warehouse documents and journals enabled in the setup (receipt, shipment, warehouse journals, internal picks and put-aways) carry the same dimensions, and the extended **Item Tracking Lines** and **Warehouse Item Tracking Lines** show the pallet and external lot columns alongside the standard ones.

5. Master data

5.1 Pallet No. Information

Open **Pallet No. Information List (TRK)** (Tell Me). Each record identifies one pallet (SSCC) for an item/variant and carries description, country/region, certificate number, a **Blocked** flag, comments, the expiration date, source information (document, posting date, source type and number) and the calculated **Inventory** and **Expired Inventory** - filterable by location and bin, with the warehouse quantity alongside.



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Pallet No. Information Card (TRK) ✓ Saved

TRK-PALLET · PAL-A · Tracked pallet demo item

Find entries... Related Automate Fewer options

General

Item No.	TRK-PALLET	Description	Tracked pallet demo item
Variant Code		Country/Region Code	
Pallet No.	PAL-A	Blocked	☐

Inventory

Inventory	20	Warehouse Inventory	0,00
Expired Inventory	0		

Pallet No. Information

5.2 ExternalLot No. Information

ExternalLot No. Information List (TRK) is the same master data for the supplier's external lot: one record per item/variant/external lot, with the same descriptive fields, blocking, comments and calculated inventory.

5.3 Automatic creation

You do not need to create the records by hand: when a journal or document is posted with a pallet or external lot number that has no information record yet, the app creates it automatically. The **Must Exist** flags on the Item Tracking Code are for the opposite policy: require the record to exist before posting.

6. Where to find it

- **Tell Me:** search "TRK", or directly "Tracking Setup (TRK)", "Pallet No. Information List (TRK)", "ExternalLot No. Information List (TRK)".
- **On documents and journals:** the **Assign Tracking** action (Functions group) on sales and purchase order lines, item/reclassification/physical inventory journals, consumption and output journals, warehouse documents; **Assign Shipment Lot** and **Assign Receipt Lot** on transfer order lines; **Calculate Inventory** on the physical inventory journal.
- **Item Tracking Code:** the Pallet Tracking and ExternalLot Tracking sections.

7. FAQ and limits

- **What exactly is the Pallet No.?** The SSCC of the pallet. The field is handled at 20 digits to cover the different pallet types.
- **What is the External Lot No.?** The lot or carton number assigned by the supplier, kept alongside your internal lot.
- **I do not see the tracking fields on a page.** The dimensions must be enabled per area in **Tracking Setup (TRK)**, and a field shows only if at least one item tracking code uses that dimension. Check both.
- **The Pallet/ExternalLot sections are missing on the Item Tracking Code.** Enable **Item Tracking Code Tracking** in the setup.
- **Do other AppLibra apps use these dimensions?** Yes: AL Tracking is the traceability engine of the platform, and apps such as AL GS1 and AL Catch Weight assign tracking through its functions (for example from barcode scanning and weighing) over the AL Message Passing bus.

8. Support and resources

- Publisher: **AppLibra** - <https://applibra.com>
- Apps catalog: <https://applibra.com/apps>
- Privacy policy: <https://applibra.com/privacy-policy>
- Terms of use: <https://applibra.com/terms>