

USER GUIDE

AL Catch Weight **Management**

CWM

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1. Concepts in one minute

- **Catch weight** means an item moves by count (pieces, cases) but is priced and costed by its **real weight** - typical of meat, cheese, fish, fresh produce.
- Each item carries **two units of measure**: a **Handling** unit you operate in and an **Accounting** unit (weight or volume) you price and post in. The accounting unit is set separately for **sales** and **purchase**.
- On every line the app derives the **Accounting Quantity** and the **Accounting Unit Price** from the quantity in the handling unit plus the captured net weight, and keeps them **in sync both ways** (weight, accounting quantity and price follow each other, down to the quantities to ship, receive and invoice).
- The accounting price comes from **standard BC price lists** - no separate pricing engine, the standard price events stay in place.
- Posting writes the **net and gross weight into the Item Ledger Entries** and creates a **Weight Ledger Entry** for each application (inbound linked to outbound), so you can compare weight in versus weight out for **shrinkage and yield**.

2. Prerequisites

- Business Central 28.0 or higher (Cloud/SaaS).
- The dependencies installed: **AL License and Trial Management**, **AL Foundation App**, **AL Tracking**, **AL Message Passing**, **AL Role Center**.
- Permissions: assign the **ALPCWM** permission set to the users.

You reach the app from **Tell Me** (search "CWM" to list every page of the app, or directly "Weight Ledger Entries (CWM)", "Setup (CWM)"), from the **Weigh** action that the app adds to the relevant document and journal pages, and from the **AppLibra** role center (Shift+F12 -> Explore other roles -> AppLibra). The setup page is listed under **Administration**.

3. Setup

3.1 Activate the license

Open **Setup (CWM)** (the record is created on first open and a trial is registered automatically). Use **Add License** to enter a license when you have one.

3.2 Setup (WM)

On **Setup (CWM)**, the single option is:

- **Update Net Weight On Assign Lots** - when on, assigning lots refreshes the net weight from the tracking. Most of the configuration lives on the item, not here.

3.3 Configure the item

Open the **Item Card** for a variable-weight item:

- On the **Prices & Sales** tab, set **Sales Accounting Unit of Measure** (usually a weight unit such as KG).
- On the **Purchase** tab, set **Purchase Accounting Unit of Measure**.
- These accounting units are what the app prices and posts in; the item keeps trading in its base/handling unit (pieces, cases).

The screenshot shows the Dynamics 365 Business Central interface for an Item Card. The item is 'CW-CHEESE · Aged Cheese Wheel'. The 'Prices & Sales' tab is selected, displaying various pricing and sales configuration fields. The 'Sales Accounting Unit of Measure' is set to 'KG'. Other visible fields include 'Unit Price' (0.00), 'Unit Price Excl. VAT' (0.00), 'Price Includes VAT' (toggle off), 'Price/Profit Calculation' (Profit=Price-Cost), 'Profit %' (0.00), 'Sales Prices & Discounts' (View Existing Prices and Discounts...), 'Allow Invoice Disc.' (toggle on), 'Item Disc. Group' (dropdown), 'Sales Unit of Measure' (PCS), 'Subscription Option' (No Subscription), 'Sales Blocked' (toggle off), and 'Service Blocked' (toggle off). The 'Costs & Posting' tab is also visible at the top, showing '0.00' for 'RETAIL' and 'RESALE'.

Item card: pieces as the base unit, kilograms as the accounting unit

3.4 Invoice by weight (per unit of measure)

On **Item Units of Measure**, tick **Invoice by Weight** on the unit that must be billed by weight. Because the same unit cannot be billed by weight for some customers and by count for others, the pattern is two item units of measure with a reciprocal conversion factor of 1, and **Invoice by Weight** ticked on one of them only.

3.5 Item tracking

Set up item tracking (lot, serial, package, pallet, external lot) as usual through **AL Tracking**. The weigh screens show exactly the tracking dimensions the item's tracking code enables.

4. Daily use

4.1 A sales line priced by weight

1. On a sales order (or invoice), add the item and enter the **quantity in the handling unit** (for example cases).
2. The line now shows **Accounting Quantity** and **Accounting Unit Of Measure** next to the unit of measure, and **Accounting unit price** next to the unit price.
3. Capture the weight: on the line, run **Weigh** (Shift+Ctrl+G, under Functions). The **Weigh** page opens; enter the **Net Weight** and confirm. The **Gross Weight** follows on its own, because weighing measures the goods and not the packaging around them: it is the net weight you just captured plus the tare.
4. The app computes the **Accounting Quantity** from the weight and reads the **Accounting unit price** from the standard price lists for the accounting unit; the line total reflects the real weight.
5. Changed the quantity or the weight later? Run **Update Net Weight** on the line to recompute.

Dynamics 365 Business Central

Environment: bc28-w1

Sales Order

101021 · Adatum Corporation

Home Prepare Print/Send Request Approval Order More options

Post... Release... Create Warehouse Shipment Create Inventory Put-away/Pick... Archive Document

General > 01/07/2027 01/07/2027 01/07/2027 01/07/2027 01/08/2027 Open

Lines Manage Line Order

New Line Delete Line Select items...

Type	No.	Description	Quantity	Lot No.	Unit of Measure Code	Accounting quantity	Accounting Unit of Measure	Unit Price Excl. VAT
→ Item	CW-CHEESE	Aged Cheese Wheel	4	LOT-2402	PCS	36.8	KG	110.40

Subtotal Excl. VAT (GBP) 441.60 Total Excl. VAT (GBP) 441.60

Inv. Discount Amount Excl. VAT (...) 0.00 Total VAT (GBP) 110.40

Invoice Discount % 0 Total Incl. VAT (GBP) 552.00

Sales line: quantity in pieces, accounting quantity and price in kilograms

The net weight can be typed in manually, calculated from **dimensions** (length, width, height, diameter, area, cubage), or captured live from a scale or instrument through the platform **measurement interfaces** (see 6).

4.2 Weigh and assign lots in one step

When the item is lot/package/pallet tracked, the **Weigh** page lets you both capture weight and assign tracking:

1. Open **Weigh** on the line. The lower **Weigh** list holds one row per tracking unit (lot, serial, package, pallet, external lot), each with its own quantity and net/gross weight.

2. Use the actions:

- **Weigh** (Shift+Ctrl+G) - capture the weight;
- **Assign Lots** (Shift+Ctrl+A) - assign the tracking;
- **Weigh and Assign Lot** (Shift+Ctrl+H) - do both at once.

3. The captured weight flows back to the line and, on assign, the tracking is written through AL Tracking.

Item No. CW-CHEESE

Variant Code

Location Code EAST

Description Aged Cheese Wheel

Description 2

Show Confirmation ☐

Base of Measure PCS

Quantity (Base) 1

Tot. Quantity (Base) 10

Tot. Net Weight 93,75

Weigh >

Weigh | New Line | Delete Line | Assign Lot

Quantity (Base)	Unit of Measure Code	Quantity	Net Weight	Gross Weight	Lot No.	Serial No.	Package No.	Pallet No.	External Lot No.	Bill by Net Wei...
→ 5	PCS	5	9,55		LOT-2401					☐
5	PCS	5	9,2		LOT-2402					☐

Two lots weighed on one line, each keeping its own kilograms per piece

On outbound documents you do not need to re-weigh: picking the tracking combination with the assist button on the Lot / Serial / Package / Pallet fields proposes the unit weight from the recorded ratio of that combination (remaining weight over remaining quantity, built from the posted weighings). A typed or measured weight always overrides the proposal - it is a starting point, not a constraint (see 6).

4.3 Purchase, transfer, production, inventory, warehouse

The same **Weigh** action is available wherever a variable-weight item moves:

- **Purchase order** lines and **Transfer order** lines;
- **Released production order** lines;
- **Warehouse receipt** and **Warehouse shipment** lines;
- **Item Journal**, **Item Reclassification Journal** and **Physical Inventory Journal** (which also carry an **Assign Lot** action).

In each case you enter the handling quantity, capture the weight, and let the app keep the accounting quantity and price aligned. The accounting unit and quantity are also carried over when a document is copied.

4.4 Post and analyse

1. **Post** the document as usual. The net and gross weight land in the **Item Ledger Entries**, visible in the **Applied Net Weight** column (the entries page also carries its own **Weigh** action, Shift+Ctrl+G).
2. For every **Item Application Entry** the app creates a **Weight Ledger Entry** that links the inbound and outbound entries and records the **Applied Net Weight** and **Applied Gross Weight**.

Applied Net Weight	Posting Date	Entry Type	Document Type	Document No.	Item No.	Department Code	Customer group Code	Lot No.	Location Code	Quantity
-36.80	01/07/2027	Sale	Sales Ship...	102298	CW-CHEESE		MEDIUM	LOT-2402	EAST	-4
9.20	01/07/2027	Purchase	Purchase R...	107241	CW-CHEESE	PURCHASING		LOT-2402	EAST	5
47.75	01/07/2027	Purchase	Purchase R...	107241	CW-CHEESE	PURCHASING		LOT-2401	EAST	5

Item ledger entries: the weight applied per lot, and what is left of each

1. Open **Weight Ledger Entries (CWM)** to read the applied weights, compare inbound versus outbound weight for **shrinkage and yield**, and use **Navigate** to list every entry and document for a document number and posting date.

Dynamics 365 Business Central

Environment: bc28-w1

Weight Ledger Entries (CWM)

Document No.	Item No. ▼	Lot No.	Net weight	Applied Quantity	Applied Net Weight	Applied Gross Weight	Inbound Location Code	Outbound Location Code
107241	CW-CHEESE	LOT-2401	9,55	5,00	47,75	0,00	EAST	—
107241	CW-CHEESE	LOT-2402	9,20	5,00	46,00	0,00	EAST	—
102298	CW-CHEESE	LOT-2402	9,20	-4,00	-36,80	0,00	EAST	EAST

Weight ledger: two receipts at different ratios, one sale drawn from a single lot

5. Where to find it

- **Tell Me:** search "CWM" (every page of the app is tagged), or directly "Weight Ledger Entries (CWM)" and "Setup (CWM)".
- **On documents and journals:** the **Weigh** action (Functions group) on sales, purchase and transfer order lines, released production order lines, warehouse receipt and shipment lines, the item / reclassification / physical inventory journals, and on **Item Ledger Entries**.
- **Item Card:** the Sales and Purchase Accounting Unit of Measure fields; **Item Units of Measure** carries **Invoice by Weight**.
- **Role centers:** a **Catch Weight (CWM)** group (Setup + Weight Ledger Entries) on the warehouse role center and on the AppLibra hub.
- **AppLibra hub:** Shift+F12 -> Explore other roles -> AppLibra.
- **Manual Setup:** the setup page is registered in the Manual Setup list.
- **Administration:** the setup page is listed there.

6. Tips and troubleshooting

- **The accounting columns are hidden.** The **Accounting Quantity**, **Accounting Unit Of Measure** and **Accounting unit price** show only when an accounting unit is set on the item and it differs from the handling unit. Set the Sales/Purchase Accounting Unit of Measure on the Item Card.

- **No price on the accounting line.** The accounting unit price is read from the standard BC price lists for the **accounting unit**; make sure a price exists for that unit of measure. No custom pricing engine is involved.
- **One unit billed by weight only for some customers.** A single item unit of measure cannot be "by weight" for some and "by count" for others; use two item units with a reciprocal factor of 1 and tick **Invoice by Weight** on one only.
- **Propose or require the physical weighing.** Out of the box the weight of a tracking combination is proposed when you pick it with the assist, and a typed or measured weight always wins. Policies such as always requiring a fresh physical weighing, or deriving weights without opening the Weigh page, can be tailored to your process as a customization.
- **Automatic weight from a scale.** Live capture does not come from a built-in device driver: it arrives through the platform **measurement interfaces** on the **AL Message Passing** bus (barcodes via **AL GS1**). Catch Weight defines the weight model and the calculation (including from dimensions); the live reading comes from the interfaces. With no scale connected, type the weight or compute it from dimensions.
- **No gross weight is proposed.** The gross weight is the captured net plus the tare, and the tare has to be stated somewhere: normally the **Gross Weight** of the item card. When nothing states it, the app does not make one up. You can also correct the gross weight by hand once on the weighing: that states the tare of that packaging, and the weighings that follow keep it.
- **Net weight not refreshing when I assign lots.** Turn on **Update Net Weight On Assign Lots** in the setup so the net weight is recomputed from the tracking.
- **Reading shrinkage/yield.** Compare the inbound and outbound **Applied Net Weight** on the **Weight Ledger Entries**; the entry links the two item ledger entries.

7. 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>