

User Manual

Aptean Food and Beverage ERP

Standard Measurements

Product Documentation



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Release notes

Article • 6/24/2026 • 1 min read

To view what's new or changed in each release of the Aptean Standard Measurements extension, select the specific release version.

Date	Release version	Description
June 2026	2602.1.0.0	Minor release
April 2026	2602.0.0.0	Major release
March 2026	2601.2.0.0	Stability release
February 2026	2601.1.0.0	Stability release
January 2026	2601.0.0.0	Feature release
November 2025	2504.1.0.0	Stability release
October 2025	2504.0.0.0	Feature release
August 2025	2503.0.0.0	Feature release
July 2025	2502.1.0.0	Stability release
June 2025	2502.0.0.0	Feature release
February 2025	2501.1.0.0	Stability release
January 2025	2501.0.0.0	Initial release



2602.1.0.0

Release Note • 6/24/2026 • 1 min read

Enhancements/Modifications

With this release of the Aptean Standard Measurements extension, the system correctly updates the **Weight** field value on the **Items Units of Measure** page to the **Item card** page for all combinations of the **Automatic Gross Weight** toggle and **Sync Weight to Item UOM** field settings. Additionally, the **Calculate Weights** action correctly derives tare weight from the item card and proportionally scales net weight, tare weight, and gross weight to all alternate unit of measure lines.



2602.0.0.0

Release Note • 4/22/2026 • 1 min read

Enhancements/Modifications

With this release of the Aptean Standard Measurements extension, the system has been updated to ensure interoperability with the recent changes in the Aptean [Product Specification](#) extension. To know more, see [What's new in Product Specification, version 2602.0.0.0](#).



2601.2.0.0

Release Note • 3/25/2026 • 1 min read

Enhancements/Modifications

With this release of the Aptean Standard Measurements extension, the translation file for the Swedish (sv-SE) language has been updated with standard texts for better readability.



2601.1.0.0

Release Note • 2/25/2026 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
348695	An error occurs on the Item UOM page when inserting a standard weight UOM for an item with net weight set to 0, even though the Update Item UOM with Item toggle on the Standard Measurement Setup page is turned off.



2601.0.0.0

Release Note • 1/28/2026 • 1 min read

Features

With the features added in this release of the Aptean Standard Measurements extension, you can register production order consumption by scanning GS1-compliant barcodes. For more information, see [What's new in Shop Floor Production \(BC\), version 2601.0.0.0](#).

Integrations

The Aptean Standard Measurements extension has been integrated with the Aptean [Shop Floor Production \(BC\)](#) extension. To know more, see [Integrations](#).

UI/UX changes

The **GS1 LB (32/34) Unit of Measure** and **GS1 KG (31/33) Unit of Measure** fields have been added to the **Standard Measurement Setup** page.

Resolved issues

The following issue has been resolved in this release.

ID	Description
349075	When the language is set to German, an error occurs when attempting to open the My Notifications page.



2504.1.0.0

Release Note • 11/26/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Standard Measurements extension,

- The **Unit Volume**, **Unit Volume UoM**, **Net Weight**, **Net Weight UoM**, **Gross Weight**, and **Gross Weight UoM** field values on the **Item Card** page are automatically updated with the values in the **Quantity Expressed in Base UoM** and **Quantity Expressed in the UoM** fields on the **Item Units of Measure** page.
- The translation file for the Swedish (sv-SE) language has been updated with standard texts for better readability.

Resolved issues

The following issue has been resolved in this release.

ID	Description
328367	The system fails to update the Unit Volume , Unit Volume UoM , Net Weight , Net Weight UoM , Gross Weight , and Gross Weight UoM field values on the Item Card page based on the values in the Quantity Expressed in Base UoM and Quantity Expressed in the UoM fields on the Item Units of Measure page.



2504.0.0.0

Release Note • 10/22/2025 • 2 min read

Enhancements/Modifications

With this release of the Aptean Standard Measurements extension,

- The system automatically updates all item UoM records that belong to the same UoM weight group code when the **Quantity Expressed in the UoM** field value or the **Quantity Expressed in PCS** field value is updated for an item UoM record., the related item UoM records within the same group are also updated. For more information, see [Item units of measure](#).
- The **Quantity Expressed in the UOM** and **Quantity Expressed in Base UOM** fields on the **Item Unit of Measure** page cannot be modified if the **Update Item UOM with Item Change** toggle on the **Standard Measurements Setup** page is turned on to ensure data remains consistent with the corresponding item details. For more information, see [Set up standard measurements](#).

Additionally, this extension has been updated to ensure interoperability with the recent changes in the Aptean Transport extension. For more information, see [What's new in Transport, version 2514.0.0.0](#).

Resolved issues

The following issues have been resolved in this release.

ID	Description
312029	An error occurs on the Item Card page when updating the Base Unit of Measure field value for new items.
303422	The system incorrectly displays a warning message referencing the quantity rounding precision when invalid data is imported via the configuration package without validation of the Quantity Expressed in UoM and Base UoM field values on the Item Unit of Measure page.



2503.0.0.0

Release Note • 8/27/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Standard Measurements extension, enhancements have been made to support the handling of additional weight fields (**Net Weight 2** and **Gross Weight 2**) and quantity fields (**Qty. Consumption Units per Base UOM** and **Qty. Base UOM per Transport UOM**) on the **Item Card** page.

Integrations

The Aptean Standard Measurement extension has been integrated with the Aptean Beverage [Foundation Management](#) extension, Drink-IT Edition. To know more, see [Integrations](#).

Resolved issues

The following issue has been resolved in this release.

ID	Description
278743	The system incorrectly calculates the gross weight on the Item Units of Measure page.



2502.1.0.0

Release Note • 7/2/2025 • 1 min read

Resolved issues

The following issues have been resolved in this release.

ID	Description
294083	The system incorrectly applies unit conversion for the base unit of measure on the Item Units of Measure page when the Base Unit of Measure field value is updated on the Item Card page. This issue occurs when the newly selected base UoM belongs to the same unit of measure group as the group's baseline UoM, which is already configured on the Item Units of Measure page.
297405	The system fails to display an error when the Net Weight field value is set to 0 on the Item Card page, even though open sales and purchase documents exist for the item. This issue occurs when the Update Item UOM with Item Change toggle on the Standard Measurements Setup page is turned on.
305791, 301657, 304498, 305959, 304579	When the language is set to Dutch, French, German, or Spanish, an error occurs when attempting to open the Item Units of Measure page due to the notification text exceeding the character limit after translation on the My Notifications page.



2502.0.0.0

Release Note • 6/4/2025 • 5 min read

Features

With the features added in the release of the Aptean Standard Measurements extension, you can:

- Determine the method to calculate the ratio between the item unit of measure and the baseline unit of measure within the same unit of measure group. For more information, see [Unit of measure groups](#).
- Use the baseline unit of measure to automatically calculate the ratio when the item unit of measure within the same unit of measure group is added to the **Item Units of Measure** page. For more information, see [Automatic update of item UoM quantities](#).

Enhancements/Modifications

With this release of the Aptean Standard Measurements extension,

- When the **Use Item UOM Measures in Document Lines** toggle on the **Standard Measurements Setup** page is turned on, the system calculates weight and volume fields on sales, purchase, and transfer order lines as follows:
 - The system uses the weight field values from the **Item Card** page if the weight field values are set to 0 on the **Item Units of Measure** page.
 - The system uses the volume field value from the **Item Card** page if the **Cubage** field value is set to 0 on the **Item Units of Measure** page.For more information, see [Set up standard measurements](#). This enhancement addresses the issue reported in bug ID #273166.
- The system does not allow the deletion of the unit of measure group code when:
 - A group code is selected in the **Weight Group Code** and **Length Group Code** fields on the **Standard Measurements Setup** page.
 - A group code is assigned to one or more existing units of measure. This enhancement addresses the issue reported in bug ID #260365.
- The system does not allow the deletion of the unit of measure code when:
 - A unit of measure code is selected in the **Standard Weight Unit of Measure**, **Standard Length Unit of Measure**, **Standard Cubage Unit of Measure** fields on the **Standard Measurements Setup** page.
 - A unit of measure code is assigned as the baseline unit of measure for the unit of measure group code. This enhancement addresses the issue reported in bug ID #278238.
- The system automatically turns on and make the **Automatic Gross Weight** toggle non-editable when the **Use Item UOM Measures in Document Lines** toggle on the **Standard Measurements Setup** page is turned on. This



enhancement addresses the issue reported in bug ID #275158.

- The system dynamically adjusts the information displayed on the **Item UOM Information** FactBox based on the configuration item unit of measure and the values in the **Qty. Expressed in the UOM** and **Qty. Expressed in Base UOM** fields. For more information, see [Item UOM Information FactBox](#).
- The tooltips for the **Quantity Expressed in Base UOM** and **Quantity Expressed in the UOM** fields have been curated to enhance the readability.

Resolved issues

The following issues have been resolved in this release.

ID	Description
290448	The system incorrectly adds the standard unit of measure code to the Item Units of Measure page when the Net Weight field value is modified on the Item Card page. This issue occurs even when the Update Item UOM with Item Change toggle on the Standard Measurements Setup page is turned off.
262685	The system fails to update the Gross Weight field value when executing the Calculate Weights action on the Item Units of Measure page. This issue occurs when the Automatic Gross Weight toggle on the Standard Measurements Setup page is turned off.
263947	The system incorrectly displays the field name as Weight UOM Group Code instead of Weight Group Code on the Standard Measurements Setup page.
263937	The system incorrectly displays the unused Length Unit Of Measure and Weight Unit Of Measure table fields on the Item Units of Measure page.
258193	The system incorrectly displays a notification message when modifying the field values on the Units of Measure page. This issue occurs even after the <i>Don't show this again</i> option is selected on the relevant notification.
273166	The system incorrectly uses the volume field values from the Item Card page to calculate volume on sales, purchase, and transfer orders when the weight field values are set to 0 and a value is specified in the Cubage field on the Item Units of Measure page. This issue occurs when the Use Item UOM Measures in Document Lines toggle on the Standard Measurements Setup page is turned on.
275171	An error occurs when executing the Calculate Weights action on the Item Units of Measure page. This issue arises when the Automatic Gross Weight toggle on the Standard Measurements Setup page is turned on.
260365	The system incorrectly allows deletion of a unit of measure group code when: • A group code is selected in the Weight Group Code and Length Group Code fields on the Standard Measurements Setup page.



	When a group code is assigned to one or more existing units of measure.
278238	The system incorrectly allows the deletion of the unit of measure code when: - A unit of measure code is selected in the Standard Weight Unit of Measure, Standard Length Unit of Measure, Standard Cubage Unit of Measure fields on the Standard Measurements Setup page. - When a unit of measure code is assigned as the baseline unit of measure for the unit of measure group code.
275158	The system fails to automatically turn on and make the Automatic Gross Weight toggle non-editable when the Use Item UOM Measures in Document Lines toggle on the Standard Measurements Setup page is turned on.

Integrations

The dependency on the Aptean Standard Measurements extension has been removed from the following extensions. Businesses can use the following extensions independently without requiring the installation of the Aptean Standard Measurements extension.

- Aptean [Commodity Harvest Planning](#)
- Aptean [External Sales](#)
- Aptean [Grower Return](#)
- Aptean [Lot Management](#)



2501.1.0.0

Release Note • 2/10/2025 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
265196	An error occurs when changing the Net Weight field value on the Item Card page. This issue arises when the Update Item UOM with Item Change toggle on the Standard Measurements Setup page is turned on and the Aptean Beverage extensions, Drink-IT Edition, are installed.



2501.0.0.0

Release Note • 1/21/2025 • 2 min read

Features

With this release of the Aptean Standard Measurements extension, you can:

- Define units of measure to represent the standard for weight and length values throughout the system. For more information, see [Set up standard measurements](#).
- Set up standard conversion ratios for related units of measure, enabling these conversions to be automatically applied to items. For more information, see [Standard unit of measure conversions](#).
- Configure weights and volumes for individual item units of measure and enable them to be used in source document lines. For more information, see [Weight and volume/cubage](#).

Integrations

The Aptean Standard Measurements extension has been integrated with the following extensions:

- Aptean [Advanced Pricing](#) > [!NOTE] > > - Businesses using the Aptean Advanced Pricing extension must install the Aptean Standard Measurements extension to ensure full compatibility. However, it is crucial to update the Aptean Advanced Pricing extension to the latest version, with the minimum required version being [2502.0.0.0](#), after installing the Aptean Standard Measurements extension. This update is essential to ensure that any new item unit of measure quantities are correctly detected and used in document line pricing, especially when alternative unit of measure pricing is required. > - While the system enforces the dependency for installing the Aptean Standard Measurements extension with the Aptean Advanced Pricing extension, it does not enforce the reverse scenario. Therefore, ensure both extensions are updated to maintain seamless functionality.
- Aptean [Catch Weight](#)
- Aptean [Claims](#)
- Aptean [Commodity Harvest Planning](#)
- Aptean [External Sales](#)
- Aptean [Grower Return](#)
- Aptean [Inventory Overview](#)
- Aptean [Lot Management](#)
- Aptean [Mobile Warehouse Registration](#)
- Aptean [Process Manufacturing](#)
- Aptean [Reporting](#)
- Aptean [Trade Management](#)



- Aptean [Trading Board](#)



Introduction

Article • 1/22/2025 • 1 min read

The Apteian Standard Measurements (MEA) extension introduces advanced features for handling units of measure, offering businesses a more efficient way to manage and standardize measurements. It supports features such as applying standard conversions and representing dimensions like weight, volume, and more in specific units of measure. The extension allows businesses to define baseline units (e.g., kilograms for weight) and set up conversion ratios, reducing manual calculations and errors. Its key features include managing item weights, tare and gross weights, and unit of measure groups, simplifying inventory tracking, shipping calculations, and logistics management. This functionality ensures that businesses can manage items across different units of measure with ease and precision, improving operational efficiency and decision-making.



Setup

Article • 1/22/2025 • 1 min read

The following setups are required.

- [Manage permission sets](#)
- [Set up standard measurements](#)



Manage permission sets

Article • 1/22/2025 • 3 min read

Permission sets in Business Central define a user's access level to various features and data within the system. To know more, see [Assign permissions to users and groups](#).

Business Central offers two types of permission sets:

- Direct
- Indirect

Direct permission sets

Users with this permission set can perform specific actions directly without requiring additional approvals or workflows. These sets include permissions to read, modify, delete, and create data.

The direct permission set ID for this extension is *STDMEA158FDW*.

Indirect permission sets

Users with this permission set can perform specific actions. This is used in conjunction with other permission sets and typically involves additional conditions or approvals before an action can be completed.

The indirect permission set ID for this extension is *STDMEABASIC158FDW*.

Assign a permission set

1. Select the Search icon  , enter **Users**, and then choose the related link.

The **Users** list page opens.

2. Navigate to the username for which you want to assign the permission set and select it.

The **User Card** page opens.

3. On the **User Permission Sets** FastTab, in the **Permission Set** field, enter the valid permission set for this extension.

The associated fields are automatically updated based on the entered value. The user now has the necessary permissions to use the features of the Apteian Standard Measurements extension, ensuring secure and role-based access.



Set up standard measurements

Article • 1/28/2026 • 2 min read

Before using the Aptean Standard Measurements extension, you need to perform initial setups to ensure the system is configured to handle weight and volume measurements accurately and efficiently.

To do that, follow these steps:

1. Select the Search icon , enter **Standard Measurements Setup**, and then choose the related link.
The **Standard Measurements Setup** page opens.
2. On the action bar, select **Unit of Measure Groups**.
The **Unit of Measure Groups** page opens, where you can create and configure a new unit of measure group. For more information, see [Unit of measure groups](#).
3. On the **Standard Measurements Setup** page, on the **Weight** FastTab, enter the required information in the following fields:

Field	Description
Weight Group Code	Select the unit of measure group code that represents all units of measure used for weight. You cannot delete the unit of measure group record selected in this field.
Standard Weight Unit of Measure	Select the unit of measure to be used as the default for all system weight fields unless another unit is specified. This field is editable only when the Weight Group Code field has a value. You can select only a unit of measure configured with the unit of measure group specified in the Weight Group Code field. You cannot delete the unit of measure record selected in this field.
Use Item UOM Measures in Document Lines	Turn on this toggle to use the weight and volume field values (including Net Weight , Tare Weight , and Cubage fields) from the item's unit of measure in document lines, such as sales, purchase, and transfer orders, instead of using the values from the Item Card page. If all the weight field values in the item's unit of measure are set to 0, the corresponding values from the Item Card page is used instead. Similarly, if the Cubage field value in the item's unit of measure is set to 0, the corresponding value from the Item Card page is used. This functionality applies only to new document lines. The existing records will remain unaffected unless the item number on the document line is changed. When this toggle is turned on, the Automatic Gross Weight



	toggle on the Standard Measurements Setup page is automatically turned on and becomes non-editable.
Automatic Gross Weight	Turn on this toggle to automatically update the Gross Weight field on the Item Card and Item Units of Measure pages when there is a change in the Net Weight or Tare Weight field value.
Update Item UOM with Item Change	Turn on this toggle to automatically update the item units of measure lines when specific fields, such as Net Weight, Tare Weight, and Gross Weight, are modified on the Item Card page. The updates apply to the weight-related fields with the base unit of measure on the Item Units of Measure page. Additionally, the item units of measure line for the standard weight unit of measure will have its quantity per unit of measure updated if allowed. If no record exists for the standard weight, one will be created automatically. This synchronization is one-way, meaning changes to the item unit of measure line values will not update the relevant field values on the Item Card page. This field becomes editable only when the Standard Weight Unit of Measure field has a value.
Item UOM Weight Rounding Precision	Enter the value for decimal rounding to be applied to the weight fields on the Item Units of Measure page. This works only when the Calculate Weights action is executed and does not affect manually entered values.
Update Item UOM with Item Change	Turn on this toggle to restrict modifications to the field values on the Item Unit of Measure page, ensuring the data remains consistent with the corresponding item details on the Item Card page.
GS1 LB (32/34) Unit of Measure	Select the unit of measure that represents an imperial pound or the unit of measure represented by a 32 or 34 GS1 application identifier. This field value is used while performing the shop floor production activities when registering consumption via GS1 barcodes.
GS1 KG (31/33) Unit of Measure	Select the unit of measure that represents a kilogram or the unit of measure represented by a 31 or 33 GS1 application identifier. This field value is used while performing the shop floor production activities when registering consumption via GS1 barcodes.

4. On the **Length** FastTab, fill in the fields as follows.

Field	Description
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Length Group Code	Select the unit of measure group code that represents all units of measure used for length, width, and height. You cannot delete the unit of measure group record selected in this field.
Standard Length Unit of Measure	Select the unit of measure to be used as the default for all system length, width, and height fields unless another unit is specified. This field is editable only when the Length Group Code field has a value. You can select only a unit of measure configured with the unit of measure group specified in the Length Group Code field. You cannot delete the unit of measure record selected in this field.
Standard Cubage Unit of Measure	Select the unit of measure to be used as the default for all system cubage or volume fields unless another unit is specified. This field is editable only when the Length Group Code field has a value. You can select only a unit of measure configured with the unit of measure group specified in the Length Group Code field. The system uses this value to represent the total volume, even if the dimensions such as length, width, and height are entered in different units of measure. For example, the cubage value for the item's unit of measure might be represented in feet, even though the individual length, width, and height fields are entered in inches. You cannot delete the unit of measure record selected in this field.



Standard unit of measure conversions

Article • 1/22/2025 • 1 min read

The standard unit of measure conversions streamline the management of quantity relationships between different units of measure by automating their setup and application. This feature is particularly useful for weight and length measurements, where conversion ratios remain consistent regardless of the specific items they are linked to.

For instance, weight units such as kilograms and pounds maintain fixed conversion ratios across all items. By defining these conversions in advance, the system automatically populates relevant quantity conversion fields when units of measure are associated with items, eliminating the need for manual calculations and reducing errors.

To facilitate this, refer to the following topics:

- [Unit of measure groups](#)
- [Unit of measure](#)
- [Item units of measure](#)

By implementing standard unit of measure conversions, businesses can save time, enhance consistency in data entry, and ensure accuracy in handling items across various units of measure.



Unit of measure groups

Article • 2/4/2026 • 2 min read

You can create and manage groups of units of measure by assigning a code and grouping them according to your requirements on the **Unit of Measure Groups** page. This configuration helps you to represent logical groupings of related units. These groups enable you to define a baseline unit (for example, kilogram for weight) and establish conversion ratios for other units within the same group. While weight and length are the most configured groups, the flexibility of this feature allows you to set up additional groups for any units where predefined conversion ratios can improve efficiency.

To configure a unit of measure group, follow these steps:

- 1. Select the Search icon , enter **Unit of Measure Groups**, and then choose the related link.
The **Unit of Measure Groups** page opens.

! Note

You can also access this page from the **Standard Measurements Setup** page. For more information, see [Set up standard measurements](#).

- 2. On the action bar, select **New**.
- 3. Enter the required information in the following fields:

Field	Description
Code	Enter a unique code for the unit of measure group.
Description	Enter the name that describes the unit of measure group.
Baseline Unit of Measure	Select the unit of measure that is used as the base for the unit of measure group. You cannot delete the unit of measure record selected in this field.
Method of Expressing Relation to Base UOM	Select the required option to define how the system calculates the ratio between the item unit of measure and the baseline unit of measure within the same unit of measure group. This applies when a new unit of measure is added to the Item Units of Measure page that already includes a baseline unit of measure and is assigned the same unit of measure group (such as <i>WEIGHT</i>). The selected option determines how the relationship between the two units is expressed and how related quantity fields are automatically calculated.The options are:



- *Always Qty. per Base UOM*: The system uses the **Qty. per Baseline UOM** field values from the **Unit of Measure** page, to calculate the ratio between the two units of measure. This ratio determines the correct value in the **Quantity Expressed in the UOM** field on the **Item Units of Measure** page. This is the default option. For existing records, the system automatically sets the value of the **Method of Expressing Relation to Base UOM** field to this option.
- *Always Base Qty. per UOM*: The system uses the **Baseline UOM Quantity** field values from the **Unit of Measure** page, to calculate the ratio between the two units of measure. This ratio determines the correct value in the **Quantity Expressed in Base UOM** field on the **Item Units of Measure** page.
- *Larger Uses Base Qty. Per UOM*: The system first applies the *Always Qty. per Base UOM* option. If the resulting ratio is less than 1, it switches to using the *Always Base Qty. per UOM* option instead, to avoid small decimal values. When you change the value in this field, the new configuration applies only to item unit of measure records added afterward. Existing records remain unchanged.

For more information, see [Automatic update of item UoM quantities](#).

The unit of measure group has been configured.



Units of measure

Article • 1/22/2025 • 2 min read

You can set up and manage permanent conversion ratios among similar units of measure by linking them to the unit of measure groups on the **Unit of Measure Groups** page. This setup allows you to define a baseline unit of measure for each group and configure conversion ratios for other units of measure within the same group.

For example, you can create a group for weight and designate kilogram (KG) as the baseline unit of measure. Then, you can define conversion ratios for related units, such as grams (1000 grams = 1 kilogram) or pounds (1 kilogram = 2.20462 pounds). This configuration ensures that conversions are consistent and efficient, reducing manual effort and errors when managing quantities across different units of measure.

To set up or modify a unit of measure, follow these steps:

- 1. Select the Search icon , enter **Units of Measure**, and then choose the related link.
The **Units of Measure** page opens.
- 2. On the action bar, select **New** to create a new unit of measure or select an existing one.
- 3. Enter the required information in the following fields:

Field	Description
UOM Group Code	Select the required unit of measure group code for the selected unit of measure. This field value is automatically updated and cannot be changed for the baseline unit of measure configured on the Unit of Measure Groups page and for the unit of measure selected in the Standard Weight Unit of Measure field on the Standard Measurements Setup page.
Qty. per Baseline UOM	Enter the number of units of the selected unit of measure that are equivalent to one unit of the baseline unit of measure. For example, if the baseline unit of measure is kilogram and the current unit of measure is gram, enter <i>1000</i> in this field (since 1 kilogram equals 1000 grams). This value is used to represent conversions within a unit of measure group in a standard way.
Baseline UOM Quantity	Enter the number of units of the baseline unit of measure equivalent to one unit of the selected unit of measure. For example, for gram, enter <i>0.001</i> (since 1 gram equals 0.001 kilograms).



 Note

- The **Qty. per Baseline UOM** and **Baseline UOM Quantity** fields are interconnected, with their values being reciprocal, as shown below:
- $\text{Qty. per Baseline UOM} = 1 / \text{Baseline UOM Quantity}$
- $\text{Baseline UOM Quantity} = 1 / \text{Qty. per Baseline UOM}$ If the selected unit of measure is the baseline unit of measure, both fields become non-editable and their values are automatically set to *1*.



Item units of measure

Article • 10/22/2025 • 4 min read

You can manage and update unit of measure details for items, focusing on maintaining accurate units on the **Item Units of Measure** page. This functionality helps you to define and configure the relationship between an item's base unit of measure and its alternate units.

For example, if an item's base unit is a *Can* and an alternate unit is a *Box*, *Crate*, or *Pallet*, the system ensures that conversions between these units are automatically calculated based on predefined ratios.

This configuration automates unit conversion setup, reducing manual data entry, minimizing errors, and enhancing the overall efficiency of managing item units of measure.

Consider an example where the base unit of measure for an item is *Can* and the following values:

- 1 Box contains 5 Cans.
- 1 Crate contains 20 Cans.
- 1 Pallet contains 80 Cans.

To define alternate units of measure, follow these steps:

1. Select the Search icon , enter **Items**, and then choose the related link.
The **Items** list page opens.
2. Select the required **No.** to open the relevant **Item Card** page.
The **Item Card** page opens.
3. On the action bar, select **Related > Item > Units of Measure**.
The **Item Units of Measure** page opens.
4. Enter the required information in the following fields:

Field	Description
Code	Select the relevant unit of measure code.
Quantity Expressed in Base UOM	Specifies the number of units in the base unit of measure that correspond to the quantity specified in the Quantity Expressed in the UoM field, based on the selected unit of measure code. For <i>Box</i> , enter 5 to indicate that 5 <i>Cans</i> (base unit) are equivalent to 1 <i>Box</i> . The term <i>Base UOM</i> in the field name will dynamically change to display the code of the item's base unit of measure.



	This field value is automatically set to 1 for the item's base unit of measure.
Quantity Expressed in the UOM	Specifies the number of units in the selected unit of measure that correspond to the quantity specified in the Quantity Expressed in Base UOM field. For <i>Box</i>, enter 1 to indicate that the alternate unit <i>Box</i> is equivalent to 5 <i>Cans</i>. This field value is automatically set to 1 for the item's base unit of measure. For more information, see Automatic update of item UoM quantities.
Qty. per Unit of Measure	Specifies how many of the base unit of measure are contained in one unit of the item. This value is calculated by dividing the Quantity Expressed in Base UOM field value by the Quantity Expressed in the UOM field value.
Quantity Expressed in PCS	Specifies the quantity of the item expressed in pieces (PCS) for the selected unit of measure. This value represents how many individual pieces are included in one unit of the item, as defined in the Unit of Measure Code field.

 Note

While configuring unit relationships, one of these fields will always be set to 1, ensuring consistency in unit conversions.



Automatic update of item UoM quantities

Article • 6/4/2025 • 7 min read

The automatic update of item UoM quantities feature ensures that when adding or updating units of measure (UoM) for an item, the **Quantity Expressed in the UoM** field or **Quantity Expressed in Base UOM** field value is automatically calculated, especially when units of measure belong to the same UoM group code. This automatic calculation helps maintain consistency and accuracy when converting between different units of measure for the same item.

If a unit of measure is configured with a UoM group code, the **Quantity Expressed in the UoM** or **Quantity Expressed in Base UOM** field value will be automatically populated based on the conversion ratios defined on the **Unit of Measure** and **Unit of Measure Groups** pages. The system uses the option selected in the **Method of Expressing Relation to Base UOM** field on the **Unit of Measure Groups** page to determine which field to update. For more information, see [Unit of measure](#) and [Unit of measure groups](#).

First inserted record for UoM group code

If the selected unit of measure is configured with a UoM group code and it is the only line with that UoM group code in the item units of measure, the value in this field is automatically set to **1**. You must employ the standard procedure of manually updating the values related to the base unit of measure. The updated value will be used in subsequent calculations for any new record for the same UoM group.

Subsequent inserted records for UoM group code

If the item units of measure already includes a record with the same UoM group as the newly inserted record, the system automatically calculates the ratio between the two units of measure.

The system follows this process:

- If the baseline unit of measure of the UoM group already exists on the **Item Units of Measure** page, the system uses it to calculate the ratio.
- If the baseline unit of measure is unavailable, the system compares the new UoM with the first available record on the **Item Units of Measure** page that has the same UoM group code.

Note

If the baseline unit of measure of the same UoM group is added later, the system automatically recalculates and updates the ratio for all relevant units of measure within the same UoM group.

The ratio is calculated using the values in the **Quantity Expressed in the UoM** or **Quantity Expressed in Base UOM** fields from the **Units of Measure** page, and the result is used to set the appropriate value for the newly inserted



UoM record.

Here's an example of scenarios:

UoM group code configuration

Let's assume that *OZ*, *KG*, and *LB* belong to the same UoM group code, *Weight*, with *KG* being the baseline unit of measure for the relevant UoM group code. The item has a base unit of measure *BOX*, which is not configured with the *Weight* UoM group code.

On the **Units of Measure** page, the values for the **Qty. per Baseline UOM** and **Baseline UOM Quantity** fields are set as per the universal conversion ratios among these weight units:

Qty. per Baseline UOM

$KG = 1\ LB = 2.20462262\ OZ = 35.273962$

Baseline UOM Quantity

$KG = 1\ LB = 0.45359237\ OZ = 0.0283495231$

Scenario 1: Adding the first unit of measure (KG)

When *KG* is added to the item units of measure since there are no existing lines with the same UoM group code, the system calculates the **Quantity Expressed in the UoM** and **Qty. per Unit of Measure** field values using the net weight value of the item and the ratio between the newly added UoM (*KG*) and the base unit of measure of the item (*BOX*).

The system uses the configuration defined in the **Method of Expressing Relation to Base UOM** field on the **Unit of Measure Groups** page for the associated UoM group to determine this ratio. For more information on the calculation, see Scenario 2.

However, you must manually update the values to accurately reflect the conversion ratio between the unit of measure and the baseline unit of measure.

For example, if *0.5 KG* equals *1 BOX*, the **Quantity Expressed in the UoM** field value for *KG* should be updated to *0.5*.

Note

The *KG* record may also be automatically inserted when you edit the value in the **Net Weight** field on the **Item Card** page, if *KG* is selected in the **Standard Weight Unit of Measure** field, and the **Update Item UOM with Item Change** toggle on the **Standard Measurements Setup** page is turned on.



Scenario 2: Adding LB

When *LB* is added to the item units of measure, and there is already another record for the *Weight* UoM group code, the system compares the two values across units of measure.

The system compares the values based on the configuration of the **Method of Expressing Relation to Base UOM** field on the **Unit of Measure Groups** page for the relevant UoM group as follows:

Method of Expressing Relation to Base UOM = Always Qty. per Base UOM

The **Qty. per Baseline UOM** field values are used to establish the conversion ratio, where there is *2.20462 LB* per *KG*. Since there are *0.5 KG* per *BOX* for this item, the system calculates that there is *1.10231 LB* per *BOX* (calculated as $2.20462 * 0.5$). This value is updated in the **Quantity Expressed in the UOM** field on the **Item Units of Measure** page.

Method of Expressing Relation to Base UOM = Always Base Qty. per UOM

The **Baseline UOM Quantity** field values are used to establish the conversion ratio, where there is *0.45359237 KG* per *LB*. Since there are *0.5 KG* per *BOX* for this item, the system calculates that there is *0.90718 BOX* per *LB* [calculated as $1 / (2.20462 * 0.5)$]. This value is updated in the **Quantity Expressed in Base UOM** field on the **Item Units of Measure** page.

Method of Expressing Relation to Base UOM = Larger Uses Base Qty. Per UOM

The system first applies the *Always Qty. per Base UOM* option. If the resulting ratio is less than *1*, it switches to using the *Always Base Qty. per UOM* option instead, to avoid small decimal values.

Note

After the automatic calculation, you have the option to manually edit the values for this record if needed.

Scenario 3: Adding OZ without KG (baseline unit of measure)

If the **Item Units of Measure** page does not include a record for *KG*, which is the baseline unit of measure for the *Weight* UoM group, and *OZ* is added, the system checks for existing records with the same UoM group. If *LB* is the first available record, the system uses the units of measure table to calculate the ratio between *LB* and *OZ*, as described in Scenario 2.



 Note

If the baseline unit of measure of the same UoM group is added later, and the **Net Weight** field value is modified on the **Item Card** page, the system automatically recalculates and updates the ratio for all relevant units of measure within the same UoM group.

After this calculation, if you modify the **Net Weight** field value on the **Item Card** page, the system recalculates and updates all related values based on the updated net weight.

 Note

After the automatic calculation, you have the option to manually edit the values for this record if needed.

This calculation occurs only when the unit of measure is configured with the UoM group code. Also, this value in the item units of measure lines will not be updated even if the item's base unit of measure is modified after this calculation. However, you can manually update it if needed.



Weight and volume/cubage

Article • 1/22/2025 • 1 min read

You can manage and update the weight and volume information for items, which is crucial for accurate inventory tracking, shipping calculations, and overall logistics management. With this functionality, you can define attributes like net weight, tare weight, and gross weight. Additionally, it supports various unit of measure conversions, allowing businesses to maintain consistency and precision across different measurement systems.

To facilitate this, refer to the following topics:

- [Item card](#)
- [Item units of measure](#)



Item card

Article • 1/22/2025 • 2 min read

You can manage weight related information for items, ensuring accurate inventory management and shipping calculations on the **Item Card** page. You can also update the **Net Weight**, **Tare Weight**, and **Gross Weight** fields for the single item unit and have these values automatically update for the item’s base unit of measure when the required setup is configured.

To configure the weight related information for items, follow these steps:

- 1. Select the Search icon , enter **Items**, and then choose the related link.
The **Items** list page opens.
- 2. Select the required **No.** to open the relevant **Item Card** page.
The **Item Card** page opens.
- 3. On the **Inventory** FastTab, enter the required information in the following fields:

Field	Description
Net Weight	Enter the net weight of a single item unit for the selected base unit of measure. If no line exists for the unit of measure configured in the Standard Weight Unit of Measure field on the Standard Measurements Setup page, the system automatically creates a line for it on the Item Units of Measure page and notifies you upon updating the value in the Net Weight field.
Tare Weight	Enter the tare weight of a single item unit for the selected base unit of measure. The tare weight refers to the weight of the packaging or container, excluding the item itself.
Gross Weight	Enter the gross weight of a single item unit for the selected base unit of measure. This value is automatically calculated by adding the Net Weight and Tare Weight field values when the Automatic Gross Weight toggle on the Standard Measurements Setup page is turned on.

 Note

The values in the **Net Weight**, **Tare Weight**, and **Gross Weight** fields are automatically updated to the corresponding field values for the item’s base unit of measure on the **Item Units of Measure** page, even if modified. This works when the **Update Item UOM with Item Change** toggle on the **Standard Measurements Setup** page is turned on.



Item units of measure

Article • 1/22/2025 • 2 min read

You can manage and update the unit of measure details for items, including essential attributes such as weight, volume, and corresponding quantities on the **Item Units of Measure** page. This configuration helps you to ensure that your item measurements are accurately maintained across various units of measure. You can use this page to enter and adjust values for net weight, tare weight, gross weight, and cubage for each unit of measure associated with an item.

To configure and update item units of measure, follow these steps:

- 1. Select the Search icon , enter **Items**, and then choose the related link.
The **Items** list page opens.
- 2. Select the required **No.** to open the relevant **Item Card** page.
The **Item Card** page opens.
- 3. On the action bar, select **Related > Item > Units of Measure**.
The **Item Units of Measure** page opens.
- 4. Enter the required information in the following fields:

Field	Description
Code	Select the relevant unit of measure code.
Net Weight	Enter the net weight of a single item unit for the selected unit of measure. This value is calculated by multiplying the Net Weight field value of the item’s base unit of measure and the Qty. per Unit of Measure field value of the selected unit of measure.
Tare Weight	Enter the tare weight of a single item unit for the selected unit of measure. The tare weight refers to the weight of the packaging or container, excluding the item itself.
Gross Weight	Enter the gross weight of a single item unit for the selected unit of measure. This value is automatically calculated by adding the Net Weight and Tare Weight field values when the Automatic Gross Weight toggle on the Standard Measurements Setup page is turned on.
Cubage	Enter the volume of a single item unit for the selected unit of measure. This value is automatically calculated by multiplying the Height , Width , and Length field values. However, you can manually edit this value after it has been automatically updated. This field is updated when the Length Group Code field contains a value, and the Standard Length Unit of Measure and Standard Cubage Unit of Measure fields are set to different values on the Standard Measurements Setup page.



 Note

The values in the **Net Weight**, **Tare Weight**, and **Gross Weight** fields are automatically updated with the corresponding values from the **Item Card** page, even if modified. This works when the **Update Item UOM with Item Change** toggle on the **Standard Measurements Setup** page is turned on.

5. On the action bar, select **Actions** > **Calculate Weights** to update the **Net Weight** and **Weight** field values based on the recent modifications.



Item UOM Information FactBox

Article • 7/2/2025 • 2 min read

The **Item UOM Information FactBox** on the **Item Units of Measure** page provides a clear and detailed representation of the relationship between the base unit of measure (Base UoM) and a selected unit of measure (UoM). The system dynamically adjusts the information displayed based on the item unit of measure configuration and the values in the **Qty. Expressed in the UOM** and **Qty. Expressed in Base UOM** fields.

The system uses the following method to determine the conversion phrase:

- If the current record is the base UoM, the message is displayed as: *This is the base unit of measure.*
- If the **Qty. Expressed in the UOM** or **Qty. Expressed in Base UOM** field value is equal to 0, or if both are equal to 1, the system uses the **Qty. per Unit of Measure** field value to display the information as: *There are n [Selected UOM] in 1 [Base UOM].* For example: *There are 1 KG in 1 PCS.*
- If the **Qty. Expressed in the UOM** field value is not equal to 1, the system uses the **Qty. Expressed in the UOM** field value and displays: *There are n [Selected UOM] in 1 [Base UOM].* For example: *There are 10 KG in 1 PCS.*
- If none of the above conditions are met, the system uses the **Qty. Expressed in Base UOM** field value and displays: *There are n [Base UOM] in 1 [Selected UOM].* For example: *There are 50 PCS in 1 BOX.*

The system dynamically adjusts the information displayed based on whether the selected unit of measure is larger or smaller than the base unit, and which conversion field is populated.

The system displays an error message when the **Qty. Rounding Precision** field value on the item units of measure is not equal to 0 or 0.00001.

Note

- For more accurate control over rounding values, it is recommended to use the **Rounding Precision** field on the **Item Card** page.
- The **Item UOM Information FactBox**, previously part of the Aptean [Inventory Overview](#) extension, is included in the Aptean Standard Measurements extension. This transition ensures that the FactBox aligns more closely with the functionality and purpose of managing units of measure, as it is directly related to UoM calculations and configurations.



Walkthrough: Item weight integration

Article • 6/24/2026 • 28 min read

Overview

Use this walkthrough to verify that changes to weight fields on the Item Card page update the correct values and that the Calculate Weights action correctly updates the corresponding Unit of Measure (UOM) lines in all four supported scenarios. The following two setup options control this behavior:

Flag	Page	Values
Automatic Gross Weight	Standard Measurement Setup	ON / OFF
Sync Weight to Item UOM	Foundation Setup (Drink-IT)	Net / Gross

These two flags combine into four scenarios:

Scenario	Auto Gross	Sync Weight	Expected result
1a	OFF	Net	Net Weight
1b	OFF	Gross	Gross Weight
2a	ON	Net	Net + auto-computed Gross + Tare
2b	ON	Gross	Gross + recalculated Tare

Prerequisites

Before you start any scenario, ensure the following:

- Extensions installed:** Standard Measurements (MEA), Foundation Management (FND), Drink-IT base.
- Test item:** An item with at least one base UOM and one alternate UOM configured (e.g., PCS as base, BOX as alternate with conversion factor = 6).
- Item card weight values pre-set:**
 - Net Weight = e.g., 1.000
 - Gross Weight = e.g., 1.200
 - Tare = Gross - Net = 0.200 (derived, not manually entered)



4. The flag `UpdateItemUOMWithItemChange` is **FALSE** (default in all DIT deployments - no action needed).

Setup Steps

Step 1 - Configure Standard Measurement Setup

1. Select the Search icon , enter **Standard Measurement Setup**, and then choose the related link.
2. In the **Automatic Gross Weight** field, select **OFF** (for Scenarios 1a and 1b) or **ON** (for Scenarios 2a and 2b).
3. Close the page.

Step 2 - Configure Foundation Setup (Drink-IT)

1. Select the Search icon , enter **Foundation Setup**, and then choose the related link.
2. In the **Sync Weight to Item UOM** field, select **Net** (for Scenarios 1a and 2a) or **Gross** (for Scenarios 1b and 2b).
3. Close the page.

Scenario 1a - Auto Gross OFF, Sync Weight = Net

Setup: Automatic Gross Weight = **OFF** | Sync Weight to Item UOM = **Net**

Part A: Update Net Weight on Item Card

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.
3. In the **Net Weight** field, enter `1.000`, and then press Tab to confirm.
4. In the **Gross Weight** field, enter `1.200`, and then press Tab to confirm.
5. Choose the **Units of Measure** action.
6. Verify the **Net Weight** and **Gross Weight** fields on the base UOM line (e.g., PCS):
7. **Net Weight** = `1.000`
8. **Gross Weight** = `1.200`



Part B: Calculate Weights Reads Tare from Item Card

1. Choose the **Units of Measure** action.
2. On the **Items Units of Measure** page, choose the **Calculate Weights** action.
3. Verify the values on the base UOM line (PCS):

Field	Expected Value	Derivation
Net	1.000	Item card Net Weight
Tare	0.200	Item card Gross (1.200) - Item card Net (1.000)
Gross	1.200	Item card Gross Weight

Part C: Calculate Weights Scales Alternate UOM Lines

Prerequisite: Alternate UOM line BOX exists with conversion factor = 6.

Continuing from Part B, verify the values on the alternate UOM line (BOX):

Field	Expected Value	Derivation
Net	6.000	Base Net (1.000) x 6
Tare	1.200	Base Tare (0.200) x 6
Gross	7.200	Base Gross (1.200) x 6

Scenario 1b - Auto Gross OFF, Sync Weight = Gross

Setup: Automatic Gross Weight = **OFF** | Sync Weight to Item UOM = **Gross**

Part A: Update Gross Weight on Item Card

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.
3. In the **Gross Weight** field, enter **1.200**, and then press Tab to confirm.
4. In the **Net Weight** field, enter **1.000**, and then press Tab to confirm.



5. Choose the **Units of Measure** action.
6. Verify the **Net Weight** and **Gross Weight** fields on the base UOM line (e.g., PCS):
7. **Net Weight** = 1.000
8. **Gross Weight** = 1.200

Part B: Calculate Weights - Correct Net, Tare, Gross

1. Choose the **Units of Measure** action.
2. On the **Items Units of Measure** page, choose the **Calculate Weights** action.
3. Verify the values on the base UOM line (PCS):

Field	Expected Value
Gross	1.200
Net	1.000
Tare	0.200

4. Verify the values on the alternate UOM line (BOX, conversion = 6):

Field	Expected Value
Gross	7.200
Net	6.000
Tare	1.200

Scenario 2a - Auto Gross ON, Sync Weight = Net

Setup: Automatic Gross Weight = **ON** | Sync Weight to Item UOM = **Net**

Part A: Update Net Weight on Item Card - Auto Gross Computed

Prerequisite: Item card has an existing Tare Weight, e.g., 0.200 (= stored Gross 1.200 - Net 1.000).

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.



3. In the **Net Weight** field, enter 1.500, and then press Tab to confirm.

4. Verify the values on the Item card:

Field	Expected Value	Derivation
Net Weight	1.500	Entered value
Gross Weight	1.700	Net (1.500) + Tare (0.200) - auto-computed
Tare	0.200	Unchanged

5. Choose the **Units of Measure** action.

6. Verify the **Net Weight** and **Gross Weight** fields on the base UOM line (e.g., PCS):

7. **Net Weight** = 1.500

8. **Gross Weight** = 1.700

Part B: Calculate Weights Scales UOM Lines Correctly

1. Choose the **Units of Measure** action.

2. Choose the **Calculate Weights** action.

3. Verify the values on the base UOM line (PCS):

Field	Expected Value
Net	1.500
Tare	0.200
Gross	1.700

4. Verify the values on the alternate UOM line (BOX, factor = 6):

Field	Expected Value
Net	9.000
Tare	1.200
Gross	10.200



Scenario 2b - Auto Gross ON, Sync Weight = Gross

Setup: Automatic Gross Weight = **ON** | Sync Weight to Item UOM = **Gross**

Part A: Update Gross Weight on Item Card - Tare Recalculated

Prerequisite: Item card Net Weight = 1.000, Gross Weight = 1.200.

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.
3. In the **Gross Weight** field, enter **1.300** , and then press Tab to confirm.
4. Verify the values on the Item card:

Field	Expected Value	Derivation
Gross Weight	1.300	Entered value
Net Weight	1.000	Unchanged
Tare	0.300	Gross (1.300) - Net (1.000) - recalculated

- When the fix is applied, **Tare** = **0.300** (recalculated). *Without the fix*, Tare = **0.200** (stale value).
- Choose the **Units of Measure** action.
- Verify the **Net Weight** and **Gross Weight** fields on the base UOM line (e.g., PCS):
- **Net Weight** = **1.000**
- **Gross Weight** = **1.300**

Part B: Calculate Weights - No Tare = 0 Regression

1. Choose the **Units of Measure** action.
2. Choose the **Calculate Weights** action.
3. Verify the values on the base UOM line (PCS):

Field	Expected Value
Gross	1.300



Net	1.000
Tare	0.300

4. Verify the values on the alternate UOM line (BOX, factor = 6):

Field	Expected Value	Derivation
Net	6.000	1.000 x 6
Tare	1.800	0.300 x 6
Gross	7.800	1.300 x 6

- When the fix is applied, **Tare** = 1.800. *Without the fix*, Tare = 0.000 on alternate lines.

Non-Base UOM Weight Edit - All Scenarios

This behaviour applies in all four scenarios.

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.
3. Choose the **Units of Measure** action.
4. On the **Items Units of Measure** page, locate an alternate UOM line (e.g., BOX - not the base UOM).
5. In the **Weight** field, enter any value, and then press Tab to confirm.
6. Verify the result:
7. A notification appears (e.g., "Item card update applies to the base UOM only.").
8. The **Net Weight** and **Gross Weight** on the item card are unchanged.
9. Only the UOM line's local Weight value is stored - no item card writeback occurs.

Summary of Fixes Verified

Scenario	Defect Fixed	Verification Step
1a / 1b	P2 - Calculate Weights reads Tare from item card	Scenario 1a Part B, 1b Part B
2a	Auto Gross correctly computes Gross on Net Weight update	Scenario 2a Part A
2b	P3 - Tare recalculated on Gross Weight update	Scenario 2b Part A



All	Non-base UOM: no item card writeback, notification shown	Non-base UOM section
All	Alternate UOM lines scale Net, Tare, Gross proportionally	Part B in each scenario

Quick Reference: Setup Combinations

Scenario	Standard Measurement Setup	Foundation Setup
1a	Automatic Gross Weight = OFF	Sync Weight to Item UOM = Net
1b	Automatic Gross Weight = OFF	Sync Weight to Item UOM = Gross
2a	Automatic Gross Weight = ON	Sync Weight to Item UOM = Net
2b	Automatic Gross Weight = ON	Sync Weight to Item UOM = Gross

Existing Item Walkthrough

This section covers the same four scenarios using an item that already exists in the system - no pre-set values required. Record the item's current weights first, then use those recorded values as your reference throughout.

Step 1 - Find a Suitable Existing Item

An item is suitable if it meets all of the following:

- Has at least one base UOM and one alternate UOM (e.g., PCS base + BOX alternate).
- Has **Net Weight** and **Gross Weight** already filled on the item card (both > 0).
- Is not a production-critical item - weight edits will be made and should be reverted after testing.
- Select the Search icon , enter **Items**, and then choose the related link.
- Filter or browse to an item with UOM lines configured.
- Select the item to open the item card.
- Verify that **Net Weight** > 0 and **Gross Weight** > 0 on the item card.

Step 2 - Record Baseline Values

Before making any changes, record the item's current values:



Field	Recorded Value
Item No.	_____
Base UOM	_____
Alternate UOM	_____
Alternate UOM conversion factor	_____
Item card - Net Weight	_____
Item card - Gross Weight	_____
Item card - Tare (= Gross - Net)	_____

Choose the **Units of Measure** action and record the current Net Weight and Gross Weight values on each UOM line before making any edits.

! Note

These recorded values replace the hardcoded example values (1.000 / 1.200 / 0.200) used in the new-item scenarios above. Substitute your recorded values wherever those appear in the steps below.

Step 3 - Configure Setup Flags

Follow the same **Setup Steps** defined earlier in the main walkthrough to set the two flags per the scenario you are testing.

Existing Item - Scenario 1a (Auto Gross OFF, Sync = Net)

Setup: Automatic Gross Weight = **OFF** | Sync Weight to Item UOM = **Net**

Part A: Update Net Weight on Item Card

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.
3. In the **Net Weight** field, enter a new value (e.g., your recorded Net Weight + 0.500), and then press Tab to confirm.
4. Choose the **Units of Measure** action.



5. Verify the **Net Weight** and **Gross Weight** fields on the base UOM line reflect the updated item card values.

Part B: Calculate Weights Uses Recorded Tare

- 1. Choose the **Calculate Weights** action.
- 2. Verify the values on the base UOM line:

Field	Expected Value
Net	your recorded Net Weight
Tare	your recorded Gross Weight - your recorded Net Weight
Gross	your recorded Gross Weight

- 3. Verify the values on the alternate UOM line:

Field	Expected Value
Net	recorded Net x conversion factor
Tare	recorded Tare x conversion factor
Gross	recorded Gross x conversion factor

Existing Item - Scenario 1b (Auto Gross OFF, Sync = Gross)

Setup: Automatic Gross Weight = OFF | Sync Weight to Item UOM = Gross

Part A: Update Gross Weight on Item Card

- 1. Select the Search icon , enter **Items**, and then choose the related link.
- 2. Select the test item to open the item card.
- 3. In the **Gross Weight** field, enter a new value (e.g., your recorded Gross Weight + 0.200), and then press Tab to confirm.
- 4. Choose the **Units of Measure** action.
- 5. Verify the **Net Weight** and **Gross Weight** fields on the base UOM line reflect the updated item card values.



Part B: Calculate Weights - Correct Net, Tare, Gross

- 1. Choose the **Calculate Weights** action.
- 2. Verify the values on the base UOM line:

Field	Expected Value
Gross	your recorded Gross Weight
Net	your recorded Net Weight
Tare	your recorded Gross Weight - your recorded Net Weight

- 3. Verify the values on the alternate UOM line: all three fields scaled by the conversion factor.

Existing Item - Scenario 2a (Auto Gross ON, Sync = Net)

Setup: Automatic Gross Weight = **ON** | Sync Weight to Item UOM = **Net**

Part A: Update Net Weight on Item Card - Auto Gross Computed from Existing Tare

- 1. Select the Search icon , enter **Items**, and then choose the related link.
- 2. Select the test item to open the item card.
- 3. In the **Net Weight** field, enter a new value (e.g., your recorded Net Weight + 0.500). Note this as **NewNet**, and then press Tab to confirm.
- 4. Verify the values on the Item card:

Field	Expected Value
Net Weight	NewNet
Gross Weight	NewNet + recorded Tare
Tare	recorded Tare (unchanged)

- 5. Choose the **Units of Measure** action.
- 6. Verify the **Net Weight** and **Gross Weight** fields on the base UOM line:
- 7. **Net Weight** = NewNet
- 8. **Gross Weight** = NewNet + recorded Tare



Part B: Calculate Weights Scales Correctly

- 1. Choose the **Calculate Weights** action.
- 2. Verify the values on the alternate UOM line are scaled by the conversion factor using the updated base values.

Existing Item - Scenario 2b (Auto Gross ON, Sync = Gross)

Setup: Automatic Gross Weight = ON | Sync Weight to Item UOM = Gross

Part A: Update Gross Weight on Item Card - Tare Recalculated from Existing Net

- 1. Select the Search icon , enter **Items**, and then choose the related link.
- 2. Select the test item to open the item card.
- 3. In the **Gross Weight** field, enter a new value (e.g., your recorded Gross Weight + 0.100). Note this as **NewGross**, and then press Tab to confirm.
- 4. Verify the values on the Item card:

Field	Expected Value
Gross Weight	NewGross
Net Weight	recorded Net Weight (unchanged)
Tare	NewGross - recorded Net Weight

- When the fix is applied, **Tare** is recalculated. *Without the fix*, Tare remains unchanged from the recorded value.
- Choose the **Units of Measure** action.
- Verify the **Net Weight** and **Gross Weight** fields on the base UOM line:
- **Net Weight** = recorded Net Weight
- **Gross Weight** = NewGross

Part B: Calculate Weights - No Tare = 0 Regression

- 1. Choose the **Calculate Weights** action.
- 2. Verify the values on the alternate UOM lines show Tare > 0 and correctly scaled by the conversion factor.



Existing Item - Non-Base UOM Weight Edit

This behaviour applies in all four scenarios.

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.
3. Choose the **Units of Measure** action.
4. On the **Items Units of Measure** page, locate an alternate UOM line (e.g., BOX - not the base UOM).
5. In the **Weight** field, enter any value, and then press Tab to confirm.
6. Verify the result:
7. A notification appears (e.g., *"Item card update applies to the base UOM only."*).
8. The **Net Weight** and **Gross Weight** on the item card are unchanged.

Restore After Testing

After completing the scenarios, restore the item to its original state:

1. Select the Search icon , enter **Items**, and then choose the related link.
2. Select the test item to open the item card.
3. In the **Net Weight** field, enter your recorded Net Weight value, and then press Tab to confirm.
4. In the **Gross Weight** field, enter your recorded Gross Weight value, and then press Tab to confirm.
5. Choose the **Units of Measure** action.
6. Choose the **Calculate Weights** action to propagate the restored values to all UOM lines.
7. Choose **Back** to return to the Item card and verify that **Net Weight**, **Gross Weight**, and **Tare** match your Step 2 baseline.



Integrations

Article • 1/28/2026 • 1 min read

The Apteian Standard Measurements extension has been integrated with the following extensions:

- [Apteian Advanced Pricing](#)
- [Apteian Inventory Overview](#)
- [Apteian Beverage Foundation Management](#)
- [Apteian Shop Floor Production \(BC\)](#)



Aptean Advanced Pricing

Article • 1/22/2025 • 1 min read

The Aptean [Advanced Pricing](#) extension makes use of the features from the Aptean Standard Measurements extension, such as the **Quantity Expressed in Base UoM** and **Quantity Expressed in the UoM** fields on the **Item Units of Measure** page. These fields were previously a part of the Aptean Advanced Pricing extension but have been incorporated into the Aptean Standard Measurements extension, making them available for broader use across different extensions. For more information, see [Item units of measure](#).

Note

- Businesses using the Aptean Advanced Pricing extension must install the Aptean Standard Measurements extension to ensure full compatibility. However, it is crucial to update the Aptean Advanced Pricing extension to the latest version, with the minimum required version being [2502.0.0.0](#), after installing the Aptean Standard Measurements extension. This update is essential to ensure that any new item unit of measure quantities are correctly detected and used in document line pricing, especially when alternative unit of measure pricing is required.
- While the system enforces the dependency for installing the Aptean Standard Measurements extension with the Aptean Advanced Pricing extension, it does not enforce the reverse scenario. Therefore, ensure both extensions are updated to maintain seamless functionality.



Aptean Inventory Overview

Article • 1/22/2025 • 1 min read

The Aptean [Inventory Overview](#) extension makes use of the features from the Aptean Standard Measurements extension, such as the **Item UOM Information** FactBox on the **Item Units of Measure** page. This FactBox was previously a part of the Aptean Inventory Overview extension but has been incorporated to the Aptean Standard Measurements extension ensuring that the FactBox aligns more closely with the functionality and purpose of managing units of measure, as it is directly related to UoM calculations and configurations.



Aptean Beverage Foundation Management

Article • 8/27/2025 • 1 min read

When the Aptean Standard Measurements extension is used in conjunction with the Aptean Beverage [Foundation Management](#) extension, Drink-IT Edition, the system supports the handling of additional weight fields (**Net Weight 2** and **Gross Weight 2**) and quantity fields (**Qty. Consumption Units per Base UOM** and **Qty. Base UOM per Transport UOM**) on the **Item Card** page.



Aptean Shop Floor Production (BC)

Article • 1/28/2026 • 1 min read

When the Aptean Standard Measurements extension is used in conjunction with the Aptean [Shop Floor Production \(BC\)](#) extension, you can register production order consumption by scanning GS1-compliant barcodes. To know more, see [What's new in Shop Floor Production \(BC\), version 2601.0.0.0](#).

