



An Oracle White Paper  
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## Available Unit of Measure Management



## Overview

Applications: GSM

Focus Area: Ingredients, Packaging, Printed Packaging, Formulation, and Trade

We have found the need to limit the units of measure (UOM) available for a specific raw material. This impacts both formulation and integration to host system use cases.

## The Basics

Users now have the ability to configure the system to explicitly state the units of measure raw material specifications are to be consumed in when they are used in Formulation Specifications. In conjunction with this new configuration option, users can add and qualify unit of measure data on raw material specifications (Ingredients, Packaging and Printed Packaging specifications). They can define the base UOM as well as all of the other available UOMs that can be used for each specification.

When the system is set to manage UOM data explicitly, the UOM data that has been added to the raw material specification will be available in the bill of material UOM drop down inside a formulation specification. When the system is set to not have UOM data explicitly managed, the UOM data that has been added to the raw material will be added to the standard list of UOMs that are present today.

### Adding UOMs to a Raw Material

1. On the Summary tab of a raw material, i.e. ING, PKG, PPKG, a new section has been added called Spec Available UOM.
2. The user can select the UOM category appropriate for the material. In the example below we will select **Mass**.

**Spec Available UOM**

**UOM Category:** None ▼

**Base UOM:** None  
Length  
Mass  
Volume  
Other

**UOM Conversions**

UOM	Cross Reference	Status

Figure 1. Select UOM Category

- Once the UOM Category is established the user selects the UOMs that can be used to describe the material. The Base UOM is used to define the custom UOM in UOM Conversions section.

**Spec Available UOM**

**UOM Category:** Mass ▼

**Base UOM:** ▼  
ppm  
per mil  
kg  
g  
mg  
µg  
lb  
oz

**UOM Conversions**

UOM	Cross Reference	Status

**Approved for Use**

Figure 2. Select Base UOM

- The Additional UOMs field allows the user to select additional UOMs that are valid for the material. These represent UOMs that do not need additional conversions defined, i.e. if the base is "LB" then the system can automatically calculate "KG".

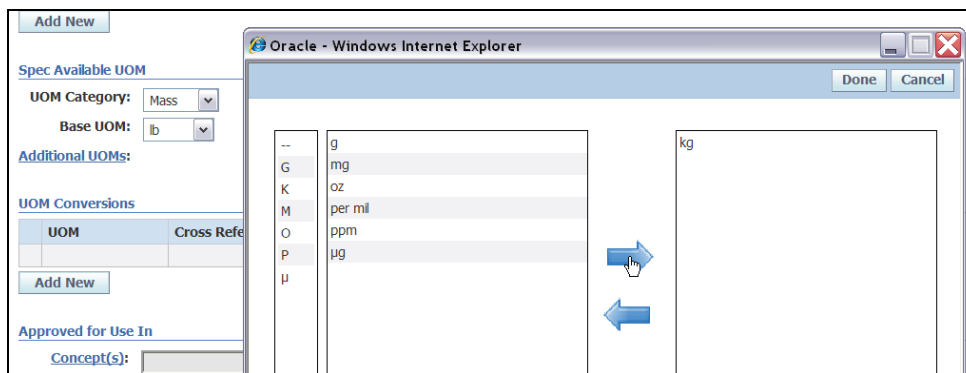


Figure 3. Additional UOM selection

**Spec Available UOM**

**UOM Category:** Mass

**Base UOM:** lb

**Additional UOMs:** kg

**UOM Conversions**

UOM	Cross Reference	Status

**Add New**

Figure 4. Additional UOM presentation

- Custom UOMs are described in the UOM Conversions section. In this example a UOM called "10BG" represents 10 lbs.

**UOM Conversions**

UOM	Cross Reference	Status
1 + 10BG = 10 lb		Active

**Add New**

Figure 5. UOM Conversions section

6. In addition custom UOMs can be presented referencing equivalent numbers.

**Cross References**

	System Name	System ID	Equivalent	Externally Managed
	Oracle System	USORACLE	99911111	<input type="checkbox"/>

[Add New](#)

**Spec Available UOM**

**UOM Category:** Mass  
**Base UOM:** lb  
**Additional UOMs:** kg

**UOM Conversions**

UOM	Cross Reference	Status
1  10BG = 10 lb	Oracle System-99911111	Active

[Add New](#)

Figure 6. Custom UOM

## Administrating Custom UOMs

Custom UOMs are managed in ADMN/Global/UOM. Each entry is added to the “Other” category and is presented to specifications based on status.

Left sidebar menu:

- CSSPORTAL
- Custom Data
- DRL
- DWB
- Global
- Countries
- Cross References
- Restrictions
- Rounding Rules Group
- UOM
- GSM Common
- GSM Compliance
- GSM FSIS
- NPD

**UOM**

**UOM Category**

**Category:** Other

**UOMs**

Name	Abbreviation	ID	ISO Code	Status
CC/100 SI/24 hr.	C/100 SI/24 hr.	CC100SID	9Z	Archive
CC/PKG/Day	CC/PKG/Day	CCPKGDAY		Active
Degrees	Degrees	DEGREES	DD	Active
Grams Per Centimeter	g/cm	G.CM	a2	Active
G/100 SI/24 hr.	G/100 SI/24 hr.	G100SID		Active
Grams Per Inch	g/in	GM-IN		Active
G/Pkg/Day	G/Pkg/Day	GPKGDAY		Active
In./10 Ft.	In./10 Ft.	IN.10FT		Active

Figure 7. Custom UOMs managed in ADMN

## Using Custom UOMs on Formulation and Trade Specifications

Once custom UOMs are defined on a given raw material they will be available for use when populating a formulation or trade specification. In the examples below we present the ingredient we created above being connected to a formulation specification with both.

Example #1: Ingredient being attached to a formulation specification with explicit UOMs configured on. Note, in this example only the UOMs identified on the ingredient are available.

(frm) 5091090-001 - Potato (Draft)

Summary Formulation Process Ext Data Related Specs CSS Supporting Documents References Approval/Audit

Inputs

Step	Material	Qty	G/L	Yld	% B
1	<div> <div>+</div> <div>Potato</div> <div>(5091089-001)</div> </div>	<div>0.00000 lb</div> <div>0.00000 lb</div>	<div>1.00000</div>	<div>0.00000 kg</div> <div>0.00000 lb</div>	

Add New Calculate

Figure 8. Explicit UOMs configured on

Configuration Example:

```
<add key="GSM.AvailableUOMs.Explicit.Enabled" value="true" configDescription="only use the UOMs defined AvailableUOMs only for consumption"/>
```

Example #2: The same formulation specification described in example #1 with Explicit UOMs configured off. Note, in this example the custom UOM is added to the standard list of UOMs.

The screenshot shows a software interface for a formulation specification titled '(frm) 5091090-001 - Potato (Draft)'. It features several tabs: Summary, Formulation, Process, Ext Data, Related Specs, CSS, Supporting Documents, References, and Approval/Audit. The 'Formulation' tab is active, displaying an 'Inputs' section with a table. The table has columns for Step, Material, Qty, G/L, Yld, and % Ba. A dropdown menu is open for the 'Qty' column of the first row, showing a list of units: kg, µg, 10B, g, lb, mg, oz, per mil, and ppm. The 'Outputs' section is also visible at the bottom.

Step	Material	Qty	G/L	Yld	% Ba
1	Potato (5091089-001)	0.00000 kg	1.00000	0.00000 kg	
		0.00000 lb		0.00000 lb	

Figure 9. Explicit UOMs configured off

Configuration Example:

```
<add key="GSM.AvailableUOMs.Explicit.Enabled" value="false" configDescription="only use the
UOMs defined AvailableUOMs only for consumption"/>
```



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**Hardware and Software, Engineered to Work Together**

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