

## **Table of Content**

1. Introduction	2
1.1. Key Concepts – Check marks in Product Window:	2
2. Prerequisites	3
3. Recipe Process	4
3.1. Modify Existing Recipe	4
4. Intermediate / Phantom Products (BOM Quantities in Doughs and Sauces)	7
5. Creation of a New Recipe	12
6. Production of Final Goods	15

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## 1. Introduction

This simplified manual is a system operation guide, oriented to a business user (administrator) for day-to-day operations with authorization to modify or add new recipes/kits in the system or products that make use of a list of materials (similar to recipes) due to the fact that they are purchased wholesale and sold individually.

\*These concepts may also be used in other industries in which any product is made from raw materials.

\*\* The following examples are from a Spanish restaurant with the User Interface in English

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### 1.1. Key Concepts – Check marks in Product Window:

BOM: Bill of Materials – That is, a product made up of other products

(ingredients). For the restaurant, the products marked as BOM are equivalent to recipes .

**Phantom/Intermediate Product** – A product marked as ghost is because it was not bought nor is it going to be sold, it is an intermediate product but necessary to reach the end.

E.g. crepe dough, (own) sauces in crepes, pasta and other dishes...



**Sold product** – Final product that is intended to be sold to the consumer and will appear in the POS, if it also has a price defined in the price list E.g. ALFREDO CHICKEN PASTA **Purchased product** – Raw material or ingredient. Ex: tomato, chicken breast, pepper... **Active Product** – Enabled for operation in the system

## 2. Prerequisites

- Before operating for the first time the following items must be set, refer to your ERP system administrator if you believe or do not know if this configuration has been done.
- Have the raw materials that are going to be used in the recipes created as products. Ex: tomato, egg etc.
- In the case of products that are not recipes but that are purchased in a large units or wholesale (e.g. box) and that they are sold individually is important before configuring to know data such as: How big is the purchase unit (e.g. box and the weight of the box) and sale unit, to determine how many smaller units does the larger purchase unit bring. The process is detailed in section x of this document.



## **3. Recipe Process**

## 3.1. Modify Existing Recipe

Open the Product window and search by name or code or other filters for the product/recipe to be affected. E.g. PASTA NAPOLITANA with Chicken

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# \*Note that if you select a product that is not a Bill of Materials (BOM)it will not display the Bill of Materials tab.

Example: A tomato will not display a BOM because it is not a recipe(finished product).

The next thing is to go to the Bill of Materials tab and from the multiple or individual view modify the amount as required.



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#### From single record view

The quantities in BOM(Bill of Materials) are defined according to the UOM (Unit of Measure) for the product. If we analyze the pasta (raw ingredient) by clicking on the product we will see that its base unit is grams.

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As a general rule, most or almost all raw materials (ingredients) for recipes are defined in grams so the Quantity in BOM corresponds to grams. For the example above means that in that recipe it is defined with 100g of pasta.

However, there is one important exception to BOM quantities that should be noted. This corresponds with the intermediate/phantom products (such as a homemade sauce in a recipe) since the numbers do not correspond to grams but to percentages.



# 4. Intermediate / Phantom Products (BOM Quantities in Doughs and Sauces)

If we analyze the previous recipe again, we will find that it includes an ingredient that is a sauce. From the context of the introduction of this document, we understand that this ingredient is a phantom/intermediate product. You may also see that the quantity is less than 1 which already gives a clue that this is not defined in grams but as a unit (for example one container of sauce).

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If we click on the product, and look at its unit we will see the following:



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This means that the sauce is not defined in grams, but in what is considered I serving of sauce in the recipe book. For this we can compare the recipe of the sauce, from the recipe book vs the one defined in the system.

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In the system: this is equivalent to I serving or manufacturing unit of the sauce. This comes from what was defined in the recipe book as I unit (approx 500GR) of sauce.

#### Ingredient / Quantity in grams / %

#### 2.1 NAPOLITANA 500GR (POMODORO).

INGREDIENTE	CANTIDAD GR.	%
Tomate chonto maduro	350,00	67,70
Cebolla cabezona	150,00	29,01
Ajo blanco	3,00	0,58
Albahaca, (ó oregano, tomillo o laurel)	1,00	0,19
Aceite	10,00	1,93
Sal	1,00 (pizca)	0,19
Azúcar	2,00	0,39

If we go back to the recipe for the final product PASTA NAPOLITANA WITH CHICKEN, we will see that the amount in BOM of the sauce is less than 1. This happens as mentioned above, because the sauce is defined in its unit and not in grams, and because logically you will not use the full production unit of the sauce in one plate (like half a kilogram of sauce on one plate).

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For example, if the recipe for PASTA NAPOLITANA WITH CHICKEN says that 120g of NAPOLITANA SAUCE is used, in the system for PASTA NAPOLITANA WITH CHICKEN, <u>you</u> should not enter 120 in the Quantity in BOM. This is because, if the product (the sauce) is defined in units such as Each (and we know that the sauce is) what the system would do is multiply 120 times, 1 unit of sauce production (which is approx 500g). In other words, for a single plate it would consume 60,000 g of sauce (120x500g = 60,000 g) and generate stock errors.

The correct way to enter the amount is a decimal number that corresponds to a percentage of what 1 unit of sauce is . In general, the number entered is less than 1 (which would be = 100%) because the recipes do not spend more than 1 complete unit of sauce/dough.

To calculate the proportion, all you have to do is a simple rule of three calculation

E.g.

When adding all the ingredients of the NAPOLITANA SAUCE recipe, it equals 517g. This means that 1 NAPOLITANA SAUCE = 517G

From the recipe for PASTA NAPOLITANA WITH CHICKEN we know that 120g of sauce is used...

With the previous data we can make the following relationship and make a rule of three 1 NAPOLITANA SAUCE = 517G

X (PERCENTAGE) Napolitana sauce = 120 g

B6	✓   f <sub>2</sub>	x ∑ → =   =(A6*E
	A	В
4	Napolitana	
5	517	1
6	120	0.23

This is why the actual value entered into the quantity in BOM is lower than 1. In other words, per plate 23% of the recipe sauce production unit is used.



lome (	(35)	Product: 177 PASTA NAPOL					-						
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oduct :	> BOM <del>~</del>												
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## 5. Creation of a New Recipe

In order for the new product to be sold and to be a recipe, it must meet the following:

#### UM: unit

Price: An assigned sales price list price Marked as Sold Product

Marked as Bill of Materials

#### Ingredients must be added to the Bill of Materials.

Product								<b>« K</b> [7)	18] 🗙 ≫
Nama					Sauch Key	170			
	PASTA ORIENTAL CON VERDURAS				-	1/8			
Product Category	PASTAS	•	•		Description				
	Purchased	Sold			UPC/EAN				
On Hand Quantity	9,987				SKU				
Classification					Points				
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Blum Gourmet 178_PAS	STA ORIENTAL C 20	000105 PASTA ORIENT	AL CON VERDURAS					Current Active	Master

From the Bill of Materials tab you can add ingredients with their quantities, following the recommendations previously mentioned in this document.



Q 📥	
Home (35) Merce Annual Home (35)	T * 🕎 Product: 233 SALSA NAPOLITANA * 🕎 Product: 172 Pasta *
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Finally, a more agile way of creating a new product is to copy a very similar product and change it to a new name and code.

Qé			
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	Purchased Sold	I	
On Hand Quantity	9,987		
Classification			
Tax Category	IMPOCONSUMO 8%		
Low Level	0 📰		Product
200 2010			

From then on it can be modified at will.



Example: to create a new pasta, you can use an existing one and press the copy button. In the new product created , it will only be necessary to modify what has changed with respect to the previous one, for example different ingredients or amounts.



## 6. Production of Final Goods

Lastly, the process to generate the finished goods is very straightforward. Use the Production Window, define how many finished goods you wish to make (or in case of a restaurant, to cook) and the system will use your BOM quantities to consume from stocked quantities.

Home (35)	Product: 178 PASTA O	RIENTA * 🕅 Product: 233 SALSA NAPOLITANA	* Product: 172 Pasta * Pro	oduction (Single Product) ×		
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Production						
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	Product	177_PASTA NAPOLITANA CON POLLO			Name	
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If completed successfully you will find more stocked quantities in your final product according to the production quantity requested. You will also see the document marked as completed.

Keep in mind that if it runs out of a raw material it will not complete the production successfully and leave the document in Draft Status and you will have to restock the raw material that generated the error and Complete the document.

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Index: <a href="http://www.smartjsp.com/web/en/idempiereFirstSteps">http://www.smartjsp.com/web/en/idempiereFirstSteps</a>