



ADD-ON SAP BUSINESS ONE · XEICORE

XEI.ItemGenerator – User Manual

XEI.ItemGenerator · Version 1.4.0

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Installation, license, menus and authorizations are described in the installation manual.

1. What the add-on does

XEI.ItemGenerator creates items in Item Master Data whose codes are **composed** by choosing values level by level: product type, size, material... You define the tree of choices once. Then, instead of inventing codes and descriptions by hand, you compose them in a window: the add-on calculates code, description, price, weight, dimensions, group, properties and bill of materials, and creates the items by copying a template item.

- **Consistent codes:** the code is “meaningful” (e.g. **PE090** = 90 cm wall unit) plus a sequential number that distinguishes the variants (color, handle...).
- **No duplicates:** the same composition always generates the same item; if it already exists, the add-on finds it.
- **Many items at once:** several sizes and several options give all the combinations.
- **Complete items:** descriptions (also in a foreign language), master data, price list price and bill of materials come from the configuration.
- **From the document:** in sales quotations and sales orders you configure the item of the row without leaving the document.

Highlights

- Generation in a resizable window on top of SAP: code tree and variant tree with check boxes (also on different branches), search, list of items with status, price and result; SAP remains usable. Same look as the SAP client, messages in the same style, texts editable with a right-click.
- Price, weight, dimensions, groups, properties, foreign name and bill of materials composed from values and options.
- Description formula with codes, options and optional parts.
- Configure Item from sales quotations and sales orders; generate similar items from a generated item.
- Configuration check that opens the master data record to correct; Excel import/export; duplication.
- SAP authorizations by function; texts in five languages.

2. Concepts: bases, values, variants and structures

An item code is made of **neutral code** + **suffix**:

- the **neutral code** is the meaningful part: the sequence of the codes of the **values** chosen level by level. Each level is a **base** (e.g. *Cabinet type*, *Width*) with a fixed length and its own values; each value leads to the next **sub-level** or is the last one;
- the **suffix** is a sequential number of N digits (settings) that distinguishes items with the same neutral code and different **variants**; with 0 digits the code is the neutral code;
- a **variant** (e.g. *Color*) has **options** (e.g. white, oak). The variants to ask for a value are grouped in a **variant structure** linked to the value.

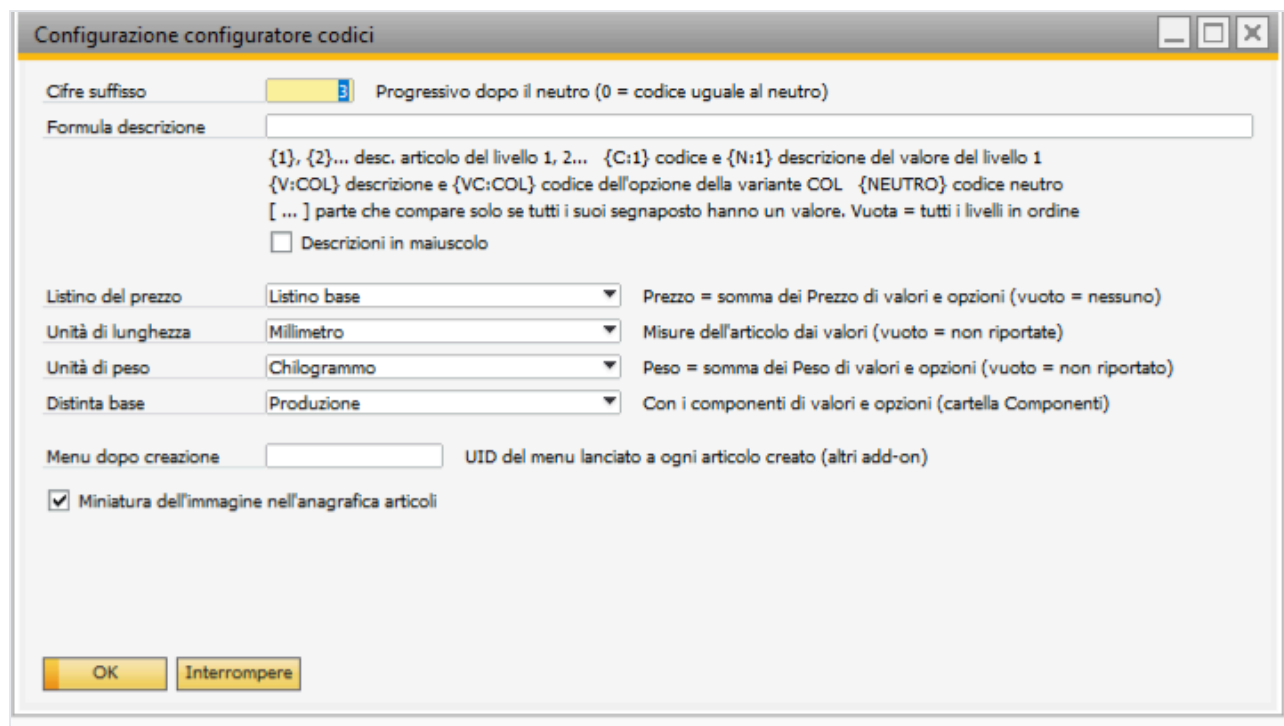
The whole manual uses this example, contained in the file [esempio-cucine.xlsx](#), to be imported with *Excel Import / Export*:

```
Tipo mobile cucina (CU, 2 characters)      structure CUSC: Colore
├─ BA Mobile base      → Larghezza
└─ PE Mobile pensile   → Larghezza
Larghezza (CL, 3 characters)                structure CUSM: Colore anta + Maniglia,
inherit variants
├─ 060 Larghezza 60 cm
└─ 090 Larghezza 90 cm
Colore (CUCOL)      BI Bianco · RO Rovere
Maniglia (CUMAN)    AL Maniglia alluminio · NE Maniglia nera
```

The 90 cm wall unit with aluminum handle has the neutral code [PE090](#); generating white and oak together, with a 3-digit suffix, the white one (BI comes before RO) becomes [PE090001](#) and the oak one [PE090002](#).

The **composition** (values of each level + chosen options) identifies the item: when the same composition is generated again, the add-on finds the existing item instead of creating another one.

3. Settings



The Settings window.

Option	Effect	Default
Suffix digits	sequential number after the neutral code (0-10); 0 = code equal to the neutral code (only one item per neutral code)	0
Description formula	how the description is composed (chapter 8); empty = descriptions of the levels in order	empty
Descriptions in upper case	description, extended description and foreign name in upper case	No
Price list	price list where the item price is written (sum of the prices of values and options), in local currency	none
Length unit	unit of the dimensions (length, width, height) of values and items; empty = dimensions not set	none
Weight unit	unit of the weight of values and options; empty = weight not set	none
Bill of Materials	type of bill of materials created with the components: None, Production, Sales, Assembly, Template	Production

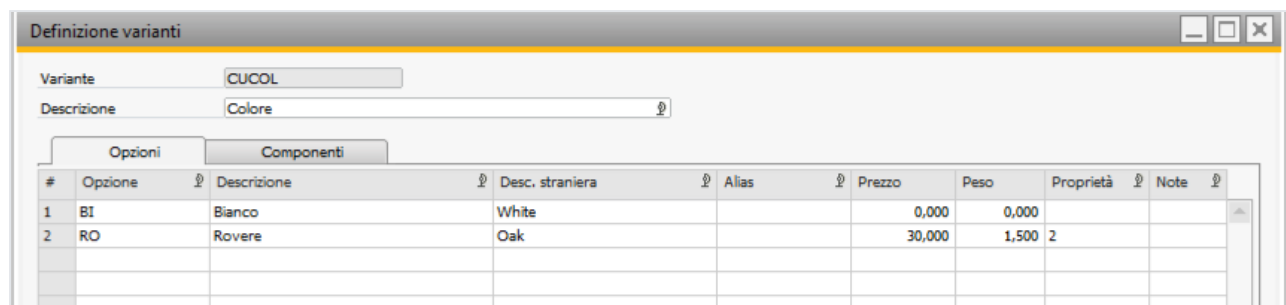
Option	Effect	Default
Menu after creation	menu to run for each item created (integration with other add-ons, chapter 14)	empty
Thumbnail	item picture in the header of Item Master Data (chapter 14)	No
Add to list clears the list first	in generation, <i>Add to list</i> replaces the list with the last selection; without this option the items accumulate and are removed with <i>Clear list</i> (chapter 9)	Yes
Window theme	colors of the add-on windows (generation), like the two themes of the SAP client: SAP SQL (dark header, gold buttons) or SAP HANA (blue header, light blue buttons). It applies to all XEI add-ons of the company; open windows change immediately	according to the database

The options apply to the whole company; if the generation window is already open, it uses them when it is opened again.

4. Variants and variant structures

Variant and option definition

A variant has a code, a description and its **options** (*Options* tab). In the header, as in the bases, you can enter a **user table** and an **item user field**: when the item is created, the chosen option is added to the table (if it is not there) and its code is written in the item user field (chapter 6).

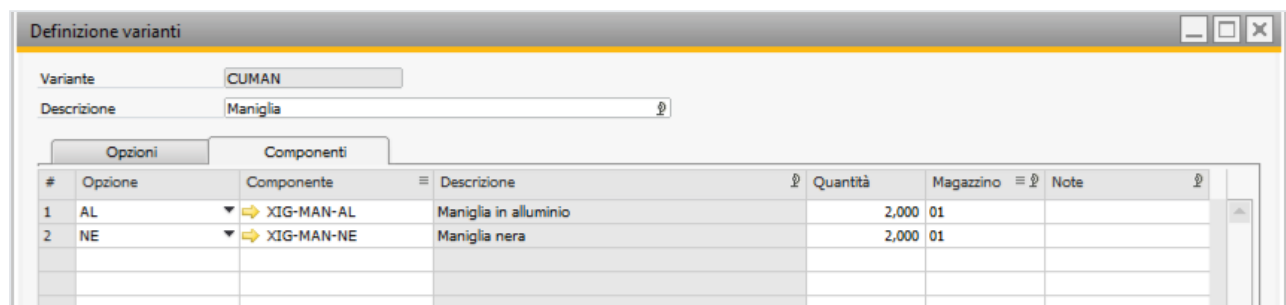


#	Opzione	Descrizione	Desc. straniera	Alias	Prezzo	Peso	Proprietà	Note
1	BI	Bianco	White		0,000	0,000		
2	RO	Rovere	Oak		30,000	1,500	2	

The Color variant with its options.

Column	Use
Option, Description	code and description of the option; the description is the text of the option in the item description
Foreign desc.	text of the option in the foreign name (empty = the Italian one)
Alias	free text
Price	contribution to the item price
Weight	contribution to the item weight
Properties	item properties to activate: numbers from 1 to 64 separated by commas (e.g. 2, 12)
Active	inactive options do not appear in generation

In the *Components* tab you enter the bill of materials components brought by the options (chapter 7).

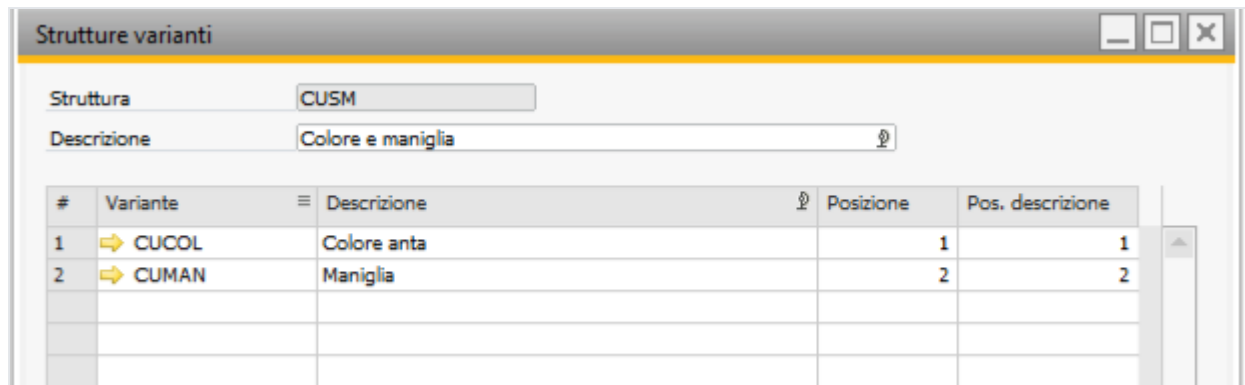


#	Opzione	Componente	Descrizione	Quantità	Magazzino	Note
1	AL	XIG-MAN-AL	Maniglia in alluminio	2,000	01	
2	NE	XIG-MAN-NE	Maniglia nera	2,000	01	

Components of the handle options: two handles from warehouse 01.

Variant structures

A structure groups the variants to ask for a base value, with the **position** (order in generation; all different) and the **description position** (order of the chosen option at the end of the description; 0 = not added at the end). The row description, if entered, replaces the description of the variant (e.g. "Door color").



The screenshot shows a window titled "Strutture varianti". At the top, there are two input fields: "Struttura" with the value "CUSM" and "Descrizione" with the value "Colore e maniglia". Below these fields is a table with the following columns: "#", "Variante", "Descrizione", "Posizione", and "Pos. descrizione". The table contains two rows of data:

#	Variante	Descrizione	Posizione	Pos. descrizione
1	⇒ CUCOL	Colore anta	1	1
2	⇒ CUMAN	Maniglia	2	2

The CUSM structure: door color and handle.

You cannot delete a variant used by a structure, or a structure used by a base.

5. Bases and values

Base header: code, description, **code length** (all values have this length), classification, user table and item user field. The *Values* tab has one row per value:

Definizione basi

Base:

Descrizione:

Lunghezza codici:

Valori | Componenti

#	Codice	Descrizione	Desc. articolo	Desc. straniera	Sotto livello	Struttura varianti	Eredita varianti	Attivo	UM magazzino	UM acquisti
1	BA	Mobile base	Base	Base unit	CL	CUSC	☐	☒		
2	PE	Mobile pensile	Pensile	Wall unit	CL	CUSC	☐	☒		

The CU base with its values: descriptions, sub-level, variant structure.

UM magazzino	UM acquisti	UM vendite	Gruppo articoli	Gruppo UM	Proprietà	Prezzo	Lunghezza	Larghezza	Altezza	Peso	Note
			Articoli generici	1		150,000	0,000	580,000	850,000	20,000	
			Articoli generici	1, 3		100,000	0,000	350,000	720,000	10,000	

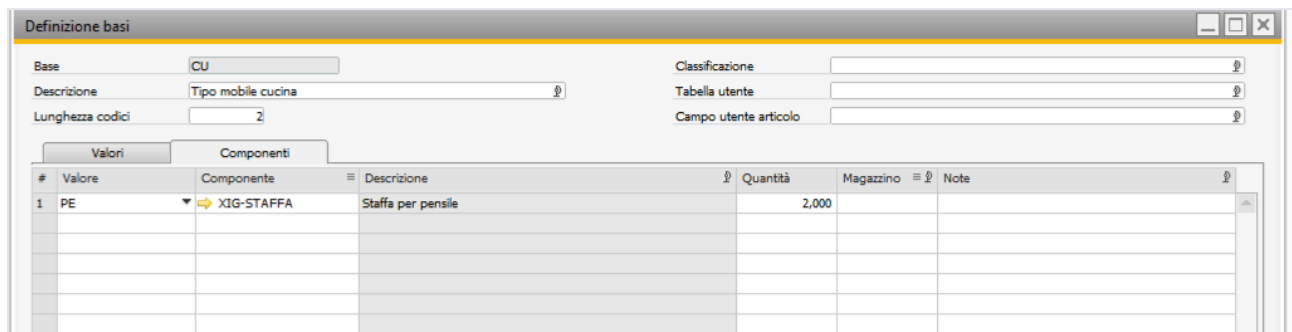
The next columns: data for the item (group, properties, price, dimensions, weight).

There are many columns: when you **maximize the window** the table widens and all of them are visible.

Column	Use
Code, Description	code of the value (exactly as long as set in the base) and description
Item desc.	text of the value in the item description
Foreign desc.	text of the value in the foreign name of the item (empty = the Italian one)
Sub-level	base of the next level (choose-from list; the arrow opens the base); empty = last level
Variant structure	variants to ask for the value (the arrow opens the structure)
Inherit variants	variants already present on a previous level start with the options chosen up there, proposed : they can be changed on the value (right-click in generation to go back to the proposed ones). As long as they follow the proposal, the option counts only once
Force inheritance	with Inherit variants: the choice of the previous level applies and cannot be changed on the value (the variant does not appear on its level)
Active	inactive values do not appear in generation
Inventory UoM / Purchasing UoM / Sales UoM	text units of measure of the item
Item group, UoM group	item group and UoM group of the item
Properties	item properties to activate (1-64)
Price, Weight	contributions to item price and weight

Column	Use
Length, Width, Height	item dimensions

Chapter 6 explains how these data are used for the item. In the *Components* tab you enter the bill of materials components brought by the values:



The wall unit brings two brackets.

- **User table** (a user table with no object, for example a table of colors): when the item is created, the chosen value is added to it (code and description), if it is not there.
- **Item user field** (for example a *Color* field in Item Master Data): when the item is created, the code of the chosen value is written in it.
- **First-level** bases are those that are not the sub-level of any value.

When saving, the add-on checks lengths, repeated codes, sub-level different from the base itself, properties and components; the reason for an error appears in the status bar and the record is not saved. You cannot delete a base used by generated items or that is the sub-level of another base.

Duplicate (in bases, variants and structures): with a record open, it prepares a new record with the same data and all the rows; you enter the new code and press *Add*. Useful for similar bases (e.g. another range of sizes).

6. Data of the created item

Each item field comes from the values of the composition and from the chosen options, with two rules:

- **the last level that sets it applies:** a later level overrides the previous levels; an empty or zero field does not clear the one of a previous level;
- **it is added up:** all values and chosen options contribute. An inherited option counts only once, on the level where it was chosen, as long as the level that inherits it follows it; an own choice on that level counts there too (even if it is the same option).

Item field	From	Rule
Code	codes of the values	neutral code + suffix (max 50 characters)
Description, extended description	item desc. of the values, descriptions of the options	formula (chapter 8); the description is truncated to 200 characters, the extended one is complete in the <i>Extended description</i> field
Foreign name	foreign desc. of values and options	same formula; empty if none has a foreign desc.
Remarks	composition	tree with the chosen values and options
Item group	values	last level; none = the one of the template item
UoM group	values	last level; with a group, the text UoMs are not used
Inventory / Purchasing / Sales UoM	values	last level, each one separately
Properties	values and options	added up: all are activated
Length, width, height	values	last level, each one separately; in purchasing and sales data
Weight	values and options	added up; in purchasing and sales data
Price	price of values and options	added up; in the price list of the settings
Bill of Materials	components of values and options	added up (chapter 7)

Example: 90 cm wall unit in oak with aluminum handle (the color is chosen on level 1 and inherited by 090).

Level	Choice	Price	Weight	Dimensions	Group	Properties
1 Type	PE Wall unit	100	10	width 350, height 720	101	1, 3
1 Color	RO Oak	30	1.5			2
2 Width	090 W90	40	3	length 900		5

Level	Choice	Price	Weight	Dimensions	Group	Properties
2 Handle	AL Aluminum	5	0.2			
Item PE090002		175	14.7	900 × 350 × 720	101	1, 2, 3, 5

Everything else (accounts, planning data, vendor, warehouses...) comes from the **template item** chosen in generation: the new items copy its data, without stock, prices, barcodes, bill of materials, last prices and foreign name.

Dati anagrafici articolo

Codice articolo PE090002

Descrizione

Nome straniero

Tipologia articolo

Gruppo articoli

Gruppo UM

Listino prezzi

Codice a barre

Prezzo unitario 175,00000 EUR

The created item: description, foreign name, group, price in the price list.

#	Descrizione proprietà	
1	Articoli proprietà 1	☒
2	Articoli proprietà 2	☒
3	Articoli proprietà 3	☒
4	Articoli proprietà 4	☐
5	Articoli proprietà 5	☒
6	Articoli proprietà 6	☐
7	Articoli proprietà 7	☐
8	Articoli proprietà 8	☐
9	Articoli proprietà 9	☐
10	Articoli proprietà 10	☐
11	Articoli proprietà 11	☐
12	Articoli proprietà 12	☐
13	Articoli proprietà 13	☐
14	Articoli proprietà 14	☐
15	Articoli proprietà 15	☐
16	Articoli proprietà 16	☐

Properties activated by values and options.

Lunghezza

Larghezza

Altezza

Volume

Peso

Dimensions and weight in the sales data.

7. Bill of Materials

Each base value and each variant option can have **components** (*Components* tab of the two master data windows): the component item, the **quantity per unit** of the generated item and, optionally, the issue **warehouse** (empty = the default warehouse of the component). When the item is created, the add-on creates its bill of materials with the components of the whole composition:

1. for each level, from the first to the last, the components of the chosen value and then those of the chosen options;
2. **inherited** options do not bring their components again;
3. the **same item with the same warehouse** becomes a single row with the quantities added up;
4. the bill of materials has quantity 1 and the **type** set in the settings (production, sales, assembly, template); with *None*, or if the composition has no components, no bill of materials is created;
5. item and bill of materials are saved together: if the bill of materials cannot be created, the item is not kept either and the reason is in the *Result* column of the generation.

SAP accepts each type of bill of materials only on suitable items (for example the production bill of materials on an inventory item, sales and assembly bills of materials on a sales item that is not an inventory item): the template item must have the right characteristics for the type chosen in the settings.

In the example the wall unit brings 2 brackets, the oak option 1 door, the aluminum handle 2 handles from warehouse 01. The 90 cm wall unit in oak with aluminum handle has this bill of materials:

Distinta base

Cod. prodotto

PE090002

X

Quantità

1

Descrizione prodotto

Pensile L90 Rovere Maniglia alluminio

≡

🔍

Tipo della distinta base

Produzione

▼

Costi standard di produzione

0,00000 EUR

Dimensione media produzione pianificata

1,00000

Contenuti

Allegati

#	Tipo oper.	N.	≡	Descrizione	Quantità	Nome unità di misura	Magazzino	≡	Metodo di prelievo	Costi standard di produzione
1	Articolo	XIG-STAFFA		Staffa per pensile	2		05		Prelievo retroattivo	0,00000 EUR
2	Articolo	XIG-ANTA-RO		Anta in rovere	1		05		Prelievo retroattivo	0,00000 EUR
3	Articolo	XIG-MAN-AL		Maniglia in alluminio	2		01		Prelievo retroattivo	0,00000 EUR
4	Articolo									0,00000 EUR

The bill of materials created with the item.

In generation, the *Components* column of the list shows how many rows the bill of materials will have; after creation the result says "With bill of materials (n components)". The configuration check reports components that do not exist, with zero quantity or with warehouses that do not exist.

8. Description formula

The formula (settings) decides how description, extended description and foreign name are composed.

Placeholder	Becomes
{1}, {2}...	the <i>item desc.</i> of the value chosen on level 1, 2...
{C:1}, {N:1}	the code and the description of the value chosen on level 1
{V:CUCOL}	the description of the option chosen for the CUCOL variant
{VC:CUCOL}	the code of the option chosen for the CUCOL variant
{NEUTRO}	the neutral code
[...]	optional part: it appears only if all the placeholders it contains have a value

- **Empty formula:** the item desc. of the levels in order.
- **At the end** come the descriptions of the options with a description position greater than zero, in that order, if the formula does not already mention their variant with {V:...} or {VC:...}.
- A placeholder with no value becomes empty; inside [] it removes the whole part, separators included.
- Double spaces are removed; with *Descriptions in upper case* everything is in upper case; placeholders are not case-sensitive.
- **Foreign name:** the same formula with the foreign descriptions (the Italian ones where they are missing); empty if no value and no option has a foreign desc.
- An unknown placeholder stays in the text, so you can see it; the configuration check reports it, as well as square brackets that are not closed or nested.

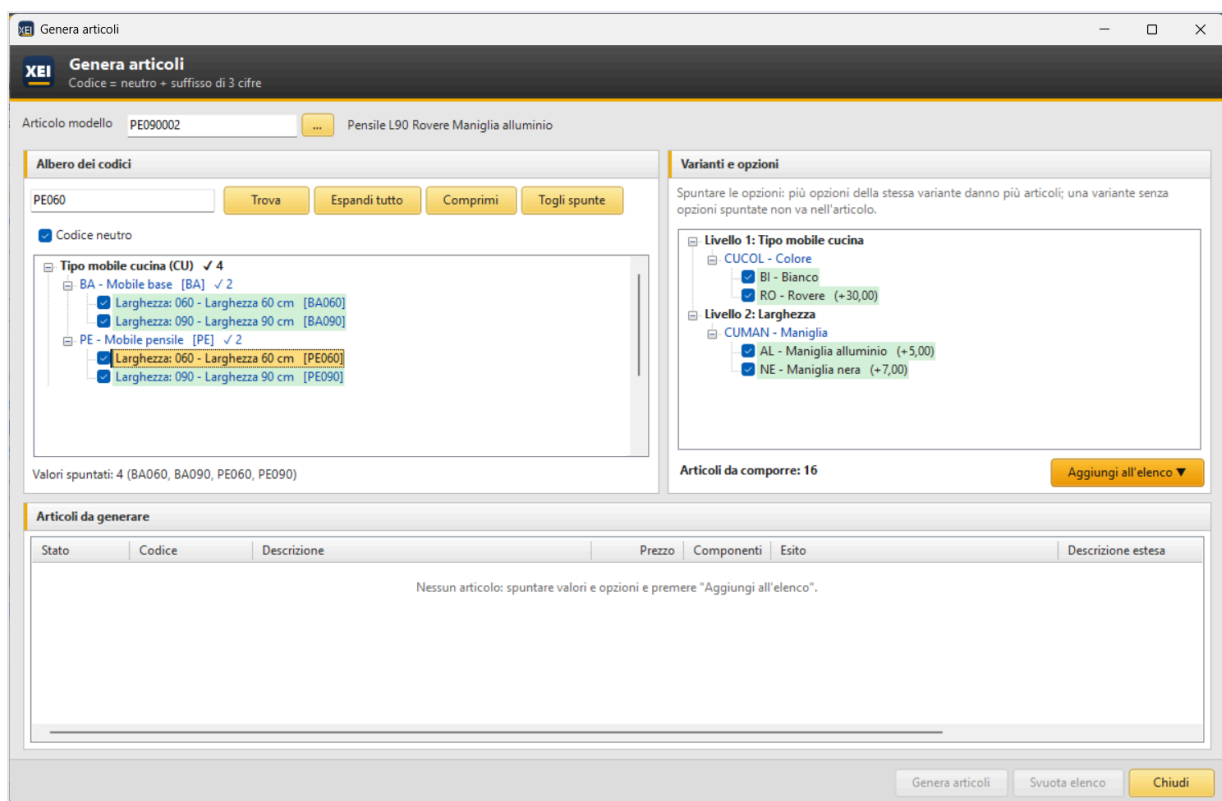
Examples with the 60 cm wall unit in oak with aluminum handle:

Formula	Description
(empty)	Pensile L60 Rovere Maniglia alluminio
{1} {V:CUCOL} {2}	Pensile Rovere L60 Maniglia alluminio
{N:1} {C:2} - {NEUTRO}	Mobile pensile 060 - PE060 Rovere Maniglia alluminio
{1} {2}[con {V:CUMAN}]	Pensile L60 con Maniglia alluminio Rovere; without handle: Pensile L60 Rovere
(empty), upper case	PENSILE L60 ROVERE MANIGLIA ALLUMINIO
(empty), foreign name	Wall unit L60 Oak Maniglia alluminio

9. Item generation

Generation is a **separate window, on top of SAP**: you can maximize, minimize and resize it like any Windows window (the panels adapt; the dividers between the panels can be dragged). Position, size, dividers and column widths are remembered per user; the first time it opens full screen. While it is open SAP remains usable, also while items are being created. The colors follow the **Window theme** of the settings (chapter 3): the header shows the code format, and below it a panel says where the generation was opened from (document row, similar item) or what is wrong.

Long operations (expanding many levels, searching, checking a whole branch, adding or creating many items) **show what they are doing** at the bottom of the window (message with progress, bar) and can be stopped with *Stop*; meanwhile the commands are locked and the window stays responsive. Results are shown at the bottom, with an icon (green, orange, red). An unexpected error is shown in a message and the window remains usable.



Widths 060 and 090 of the base unit and of the wall unit checked (on two branches), white and oak color, aluminum and black handle: 16 items to compose.

1. **Template item** (at the top, optional, remembered from one session to the next): the new items copy its data (chapter 6). The ... button (or F2) searches for the item by code or description; next to the code you see the description, or *Item not found in Item Master Data*. Without a template item, items are created with the configuration data only.
2. **Code tree** (on the left): the first-level bases with their values; the + sign expands the sub-level of a value. Values with variants are shown in blue; hovering the mouse over a value shows its item description, variants and sub-level. You **check the last-level values** (the only ones with a check box), also more than one and **also on different branches**: next to the branches you see how many values are checked below them (✓ 2), and below the tree their neutral codes.
 - **Find**: a complete neutral code (e.g. PE090) goes directly to its value; otherwise it goes to the next value that has the text in its code or description (Enter for the next one, Ctrl+F to go back

to the search). The search also covers levels that are not expanded yet.

- **Expand all, Collapse, Uncheck all; Neutral code** shows the neutral code next to each value.
- Right-click on a branch: *Check the last-level values below, Uncheck below, Expand below*. Double-click or space bar on a last-level value: checks or unchecks it.

3. **Variants and options** (on the right): the **structure of the value selected** in the tree (click or arrow keys), with its variants in the order of the structure, the options to check and their contribution to the price; the title says which value it refers to. An inherited variant says so next to its name: *proposed by level 1, Type: editable* (it follows the choice made above), *own choice, different from level 1* (right-click *Back to the proposed options*), *same as level 1: forced inheritance* (chapter 5). The same variant on the same level is chosen **only once** for all the checked values. The check box *All variants of the checked values, by level* instead shows all the variants of the checked values grouped by level, with *only for 060* if a variant concerns only some values. Several options of the same variant give several items; a variant with no checked options is not part of the composition. Right-click: *Check all options / Uncheck all options*. Below you see how many items will be composed.

4. **Add to list:** composes all the combinations in the list at the bottom, with code, description, price, number of bill of materials components and status. By default (option *Add to list clears the list first*, chapter 3) the list is cleared and contains only the last selection; with the option turned off the items accumulate and those already in the list are not repeated. The checks on values and options remain (they are removed with *Uncheck all*): you change an option or a value and add again.

5. **Generate Items (n):** creates the checked items of the list (n on the button), one at a time, with the result row by row and the progress bar. *Stop* stops the creation after the current item. At the end, at the bottom of the window, there is the summary: *Items created: n.*, then, only if there are any, those that another user had created in the meantime and those with errors; the list moves to the first item created.

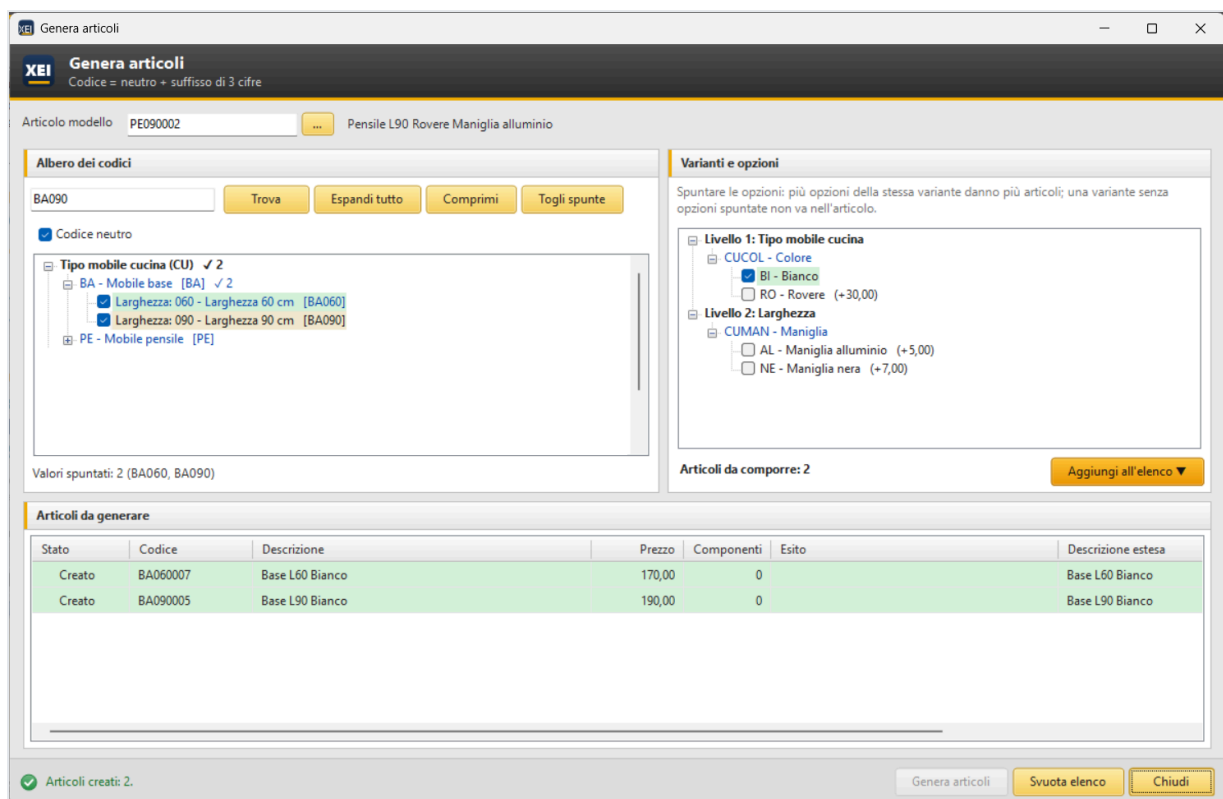
The screenshot shows the 'Genera articoli' window with the following components:

- Albero dei codici:** A tree structure showing the selection of variants and options. The selected path is: **Tipo mobile cucina (CU)** > **BA - Mobile base [BA]** > **Larghezza: 060 - Larghezza 60 cm [BA060]** > **PE - Mobile pensile [PE]** > **Larghezza: 060 - Larghezza 60 cm [PE060]**.
- Varianti e opzioni:** A list of options to be checked. The selected options are: **BI - Bianco**, **RO - Rovere (+30,00)**, **AL - Maniglia alluminio (+5,00)**, and **NE - Maniglia nera (+7,00)**.
- Articoli da generare:** A table showing the generated items. The table has columns: Stato, Codice, Descrizione, Prezzo, Componenti, Esito, and Descrizione estesa.
- Summary:** At the bottom, it shows 'Articoli aggiunti all'elenco: 16, di cui già esistenti: 15.' and buttons for 'Genera articoli (1)', 'Svuota elenco', and 'Chiudi'.

Stato	Codice	Descrizione	Prezzo	Componenti	Esito	Descrizione estesa
Già esiste...	PE060002	Pensile L60 Rovere Maniglia alluminio	155,00	3	Stessa composizione già in anagrafica.	Pensile L60 Rovere Ma
Da creare	PE060004	Pensile L60 Rovere Maniglia nera	157,00	3		Pensile L60 Rovere Ma
Già esiste...	PE090001	Pensile L90 Bianco Maniglia alluminio	145,00	2	Stessa composizione già in anagrafica.	Pensile L90 Bianco Ma
Già esiste...	PE090004	Pensile L90 Bianco Maniglia nera	147,00	2	Stessa composizione già in anagrafica.	Pensile L90 Bianco Ma
Già esiste...	PE090002	Pensile L90 Rovere Maniglia alluminio	175,00	3	Stessa composizione già in anagrafica.	Pensile L90 Rovere Ma
Già esiste...	PE090003	Pensile L90 Rovere Maniglia nera	177,00	3	Stessa composizione già in anagrafica.	Pensile L90 Rovere Ma

The 16 composed items (end of the list): 15 already in Item Master Data (in yellow) and one to create, PE060004, with price and number of components.

Status	Meaning
To create	code = neutral code + first free suffix (neither in Item Master Data nor already in the list)
Already exists	the same composition is already in Item Master Data: the code is that of the existing item (yellow)
Created	item created (green); the result says whether it has a bill of materials
Error	the reason is in the <i>Result</i> column (red): code already used, suffixes used up, code too long, SAP error. You can correct it and generate again



The screenshot shows the 'Genera articoli' window. At the top, the article model is 'PE090002' and the description is 'Pensile L90 Rovere Maniglia alluminio'. The 'Albero dei codici' (Code tree) on the left shows a hierarchy starting from 'BA090' and 'Tipo mobile cucina (CU)'. The 'Varianti e opzioni' (Variants and options) section on the right shows selected options like 'CUCOL - Colore' and 'Larghezza: 060 - Larghezza 60 cm'. The 'Articoli da generare' (Articles to generate) table at the bottom lists two created items: 'Base L60 Bianco' and 'Base L90 Bianco', both with a price and no components. The status 'Creato' is shown in green.

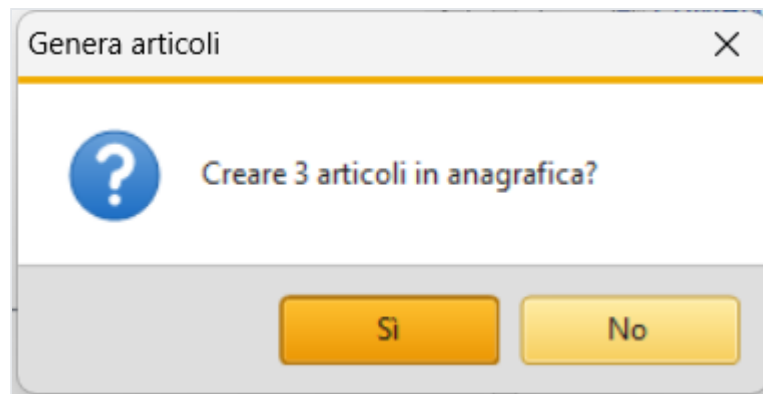
Generation result: the 60 and 90 cm base units in white created (in green) and the summary at the bottom; without components they have no bill of materials (with components the result says "With bill of materials").

In the list, the check box (only on items to create or in error) decides which items to create. **Double-click** (or Enter) on a created or already existing item opens it in SAP Item Master Data (the generation window is minimized and can be restored from the taskbar). An item still to be created opens nothing; at the bottom of the window you read *Item ... is not in Item Master Data yet*; the same happens if the item has been deleted in SAP in the meantime. Right-click: *Open in Item Master Data*, *Copy code*, *Remove from list*, *Check all*, *Uncheck all*; Del removes the selected rows, Ctrl+C copies their codes. *Clear list* starts from scratch. If the list contains items not yet created, closing or clearing asks for confirmation.

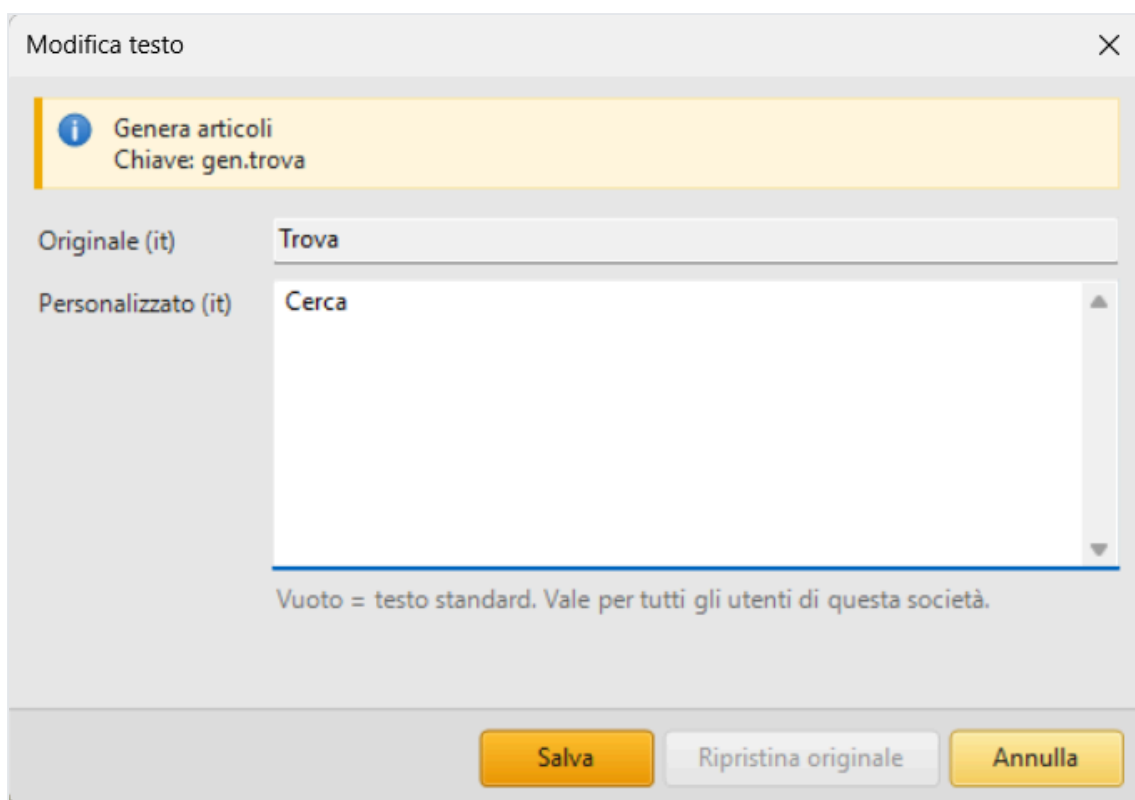
Window messages and texts

Questions and messages of the generation window (for example *Create 2 items in Item Master Data?*) have the same look as the window: Enter chooses the highlighted button, Esc answers No. Users with the **Modifica testi add-on XEI** (edit XEI add-on texts) authorization can change the texts of the window as in

SAP windows: right-click on a label, a button, a panel title, a column header or the text of a message, then **Modifica testo...** (Edit text); **Testi di questa finestra...** (Texts of this window) (also at the bottom of the tree and list menus) lists them all. The custom text applies to all users in the current language and is visible immediately.



The question before creation, in the window style.

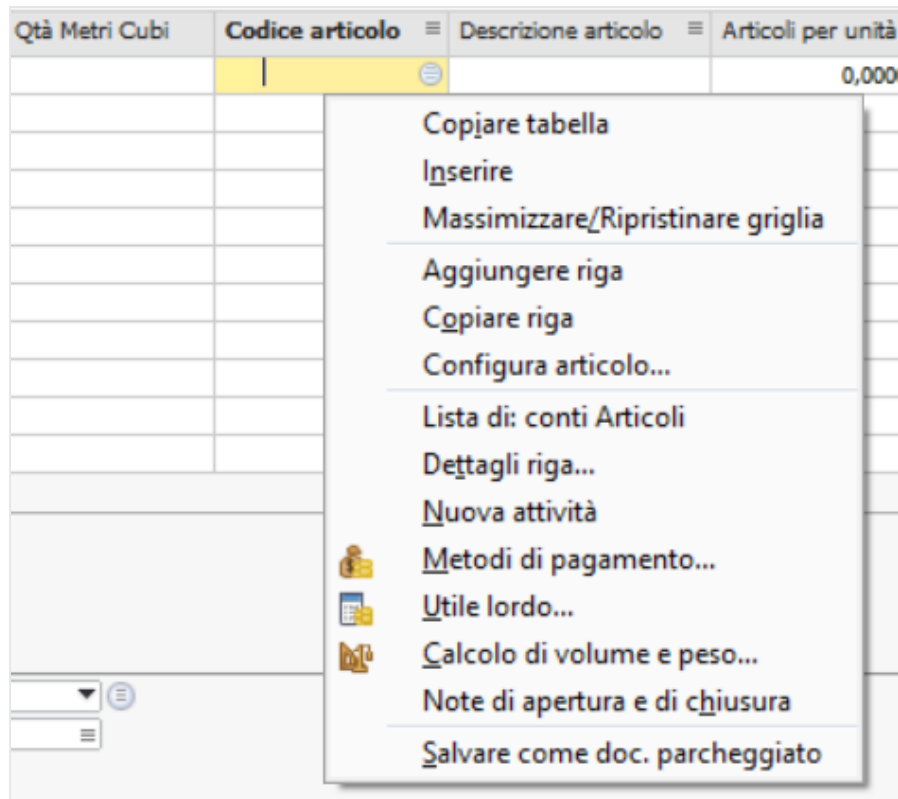


Modifica testo (Edit text) from a right-click on the Find button: original text and custom text.

Before creating each item, the add-on checks again that nobody has created the same composition or used the code in the meantime. Each item is created in a single operation (item, bill of materials, user tables, composition): an error does not leave incomplete data.

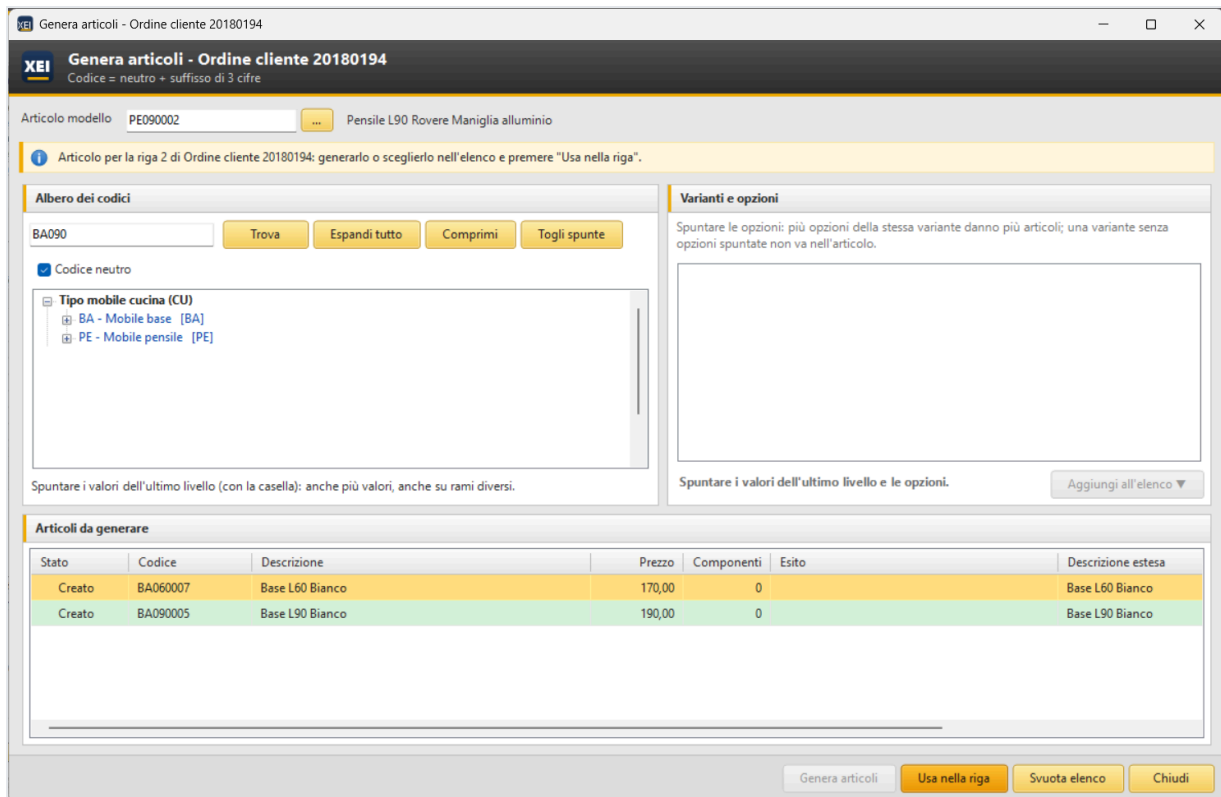
10. Items from sales quotations and sales orders

In **sales quotations** and **sales orders**, right-click on a row > **Configure Item...**:



Configure Item from the order row.

The generation window opens for that row (the window title and the panel at the top say so). You compose and create the item as usual; then **Use in row** puts the item selected in the list (created or already existing; if the list has only one item there is no need to select it) in the document row, closes the generation window and brings the document back to the front. SAP fills in the row as if the code had been typed by hand: description, price from the customer's price list, warehouse.



Genera articoli - Ordine cliente 20180194

Codice = neutro + suffisso di 3 cifre

Articolo modello: PE090002 Pensile L90 Rovere Maniglia alluminio

Articolo per la riga 2 di Ordine cliente 20180194: generarlo o sceglierlo nell'elenco e premere "Usa nella riga".

Albero dei codici

BA090 [Trova] [Espandi tutto] [Comprimi] [Togli spunte]

☒ Codice neutro

Tipo mobile cucina (CU)

- BA - Mobile base [BA]
- PE - Mobile pensile [PE]

Spuntare i valori dell'ultimo livello (con la casella): anche più valori, anche su rami diversi.

Varianti e opzioni

Spuntare le opzioni: più opzioni della stessa variante danno più articoli; una variante senza opzioni spuntate non va nell'articolo.

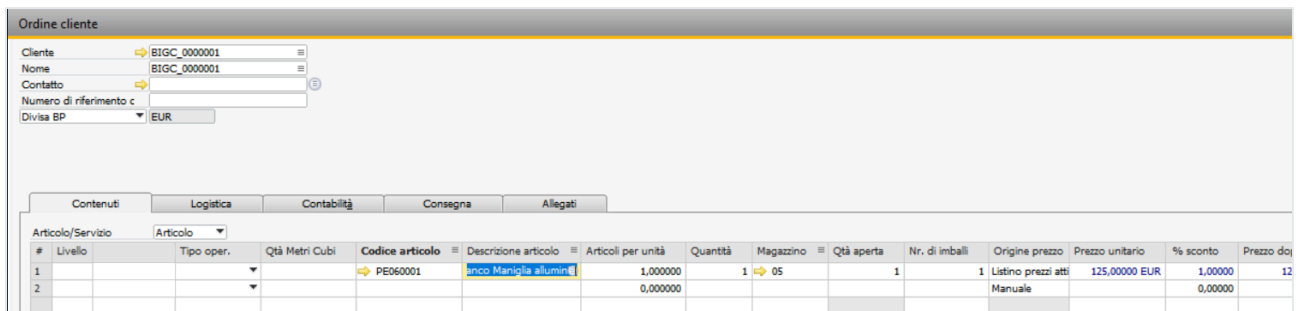
Spuntare i valori dell'ultimo livello e le opzioni. [Aggiungi all'elenco ▼]

Articoli da generare

Stato	Codice	Descrizione	Prezzo	Componenti	Esito	Descrizione estesa
Creato	BA060007	Base L60 Bianco	170,00	0		Base L60 Bianco
Creato	BA090005	Base L90 Bianco	190,00	0		Base L90 Bianco

[Genera articoli] [Usa nella riga] [Svuota elenco] [Chiudi]

Generation opened from row 2 of the order: the item just created is selected, and "Use in row".



Ordine cliente

Cliente: BIGC_0000001
Nome: BIGC_0000001
Contatto: []
Numero di riferimento c: []
Divisa BP: EUR

Contenuti [Logistica] [Contabilità] [Consegna] [Allegati]

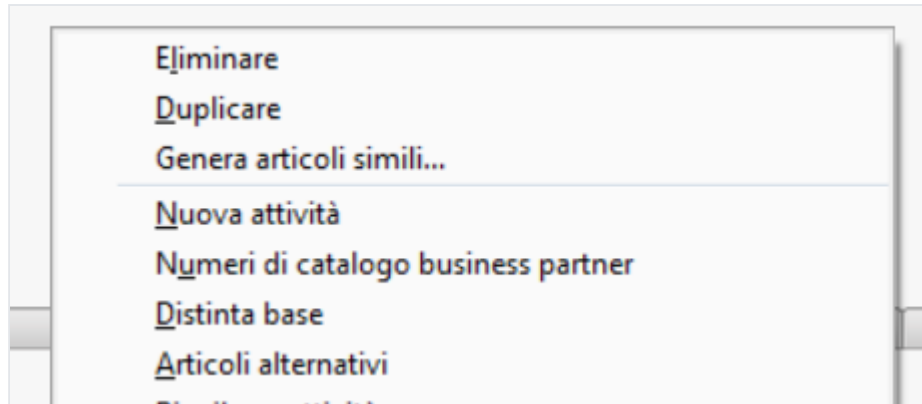
#	Livello	Articolo/ Servizio	Articolo	Quantità	Magazzino	Q.tà aperta	Nr. di imballi	Origine prezzo	Prezzo unitario	% sconto	Prezzo doc
1			PE060001	1,000000	1 → 05	1	1	Listino prezzi atti	125.00000 EUR	1,00000	12
2				0,000000				Manuale		0,00000	

The item in the order row.

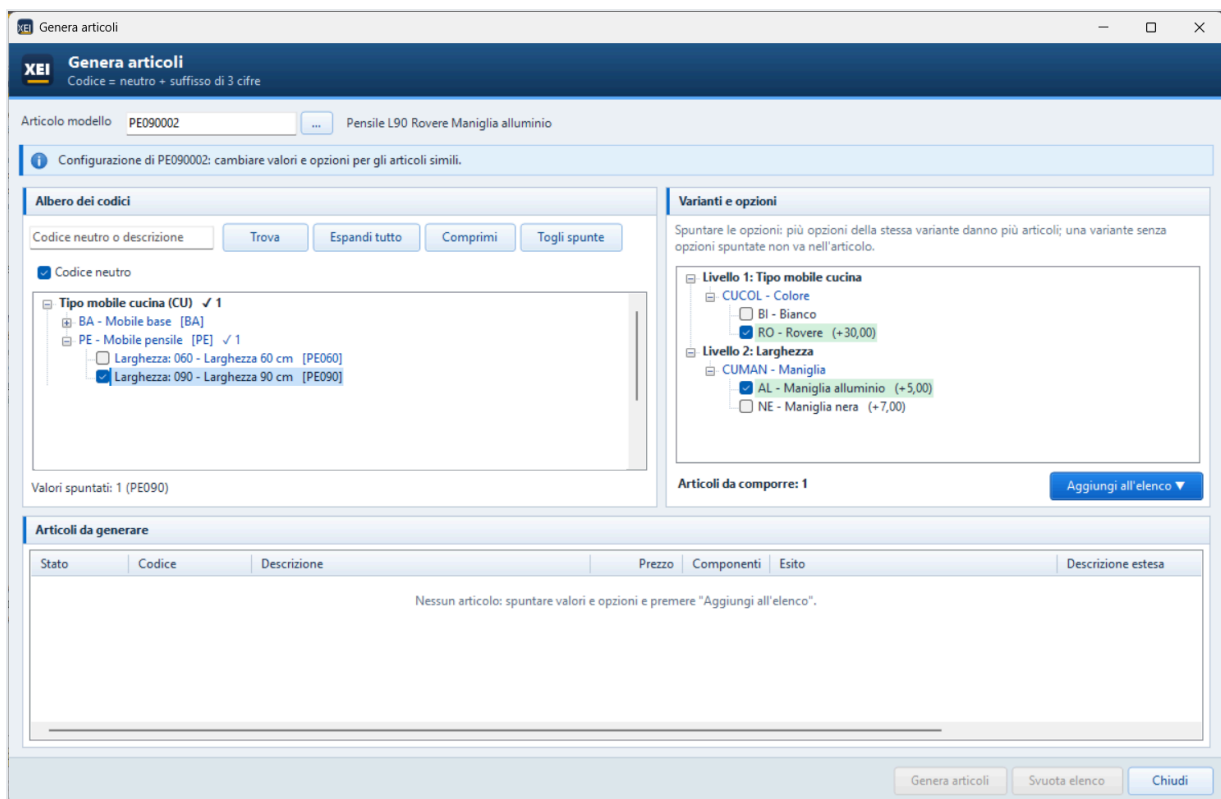
- If the row already has an item generated by the configurator, the generation starts from its configuration: changing one option is enough to get the right variant.
- If the generation window is already open, it moves to the new row; the list remains, so an item composed earlier can be reused.
- The document must stay open; a closed or non-editable document does not change (the reason appears at the bottom of the window).

11. Similar items

In the Item Master Data of an item created by the configurator, right-click > **Generate Similar Items...**: the generation window opens with the configuration of the item already set (its final value checked in the tree, already expanded down to it, and the chosen options) and with the item itself as template item. You change values and options and add the items to the list. If the generation window is already open (even minimized), it comes back to the front with the configuration of the item; the list remains.



The right-click menu on a generated item.

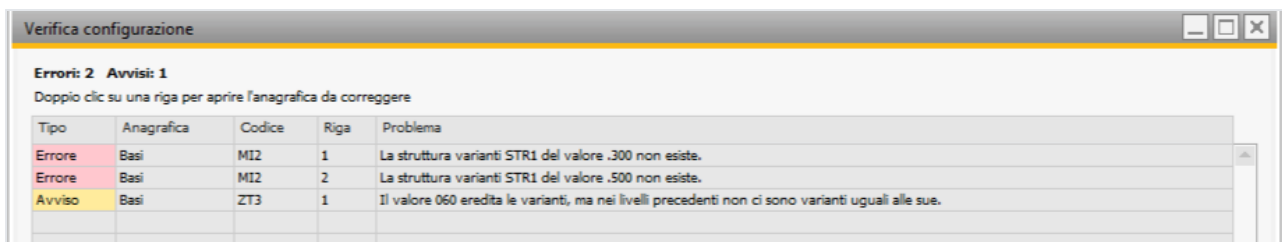


Generation from the configuration of PE090002 (SAP HANA theme): 90 cm wall unit, oak and aluminum handle already checked; the item itself as template item.

If the configuration has changed in the meantime (values removed or deactivated, different sub-levels), the generation starts from scratch, with a warning; options that no longer exist are ignored.

12. Configuration check

It checks the whole configuration (including inactive values and options) and shows the problems, errors first and then warnings. **Double-click** on a row opens the master data window to correct on that record; *Check again* repeats the check after the corrections. When you enlarge the window (also to full screen), the list of problems follows it.

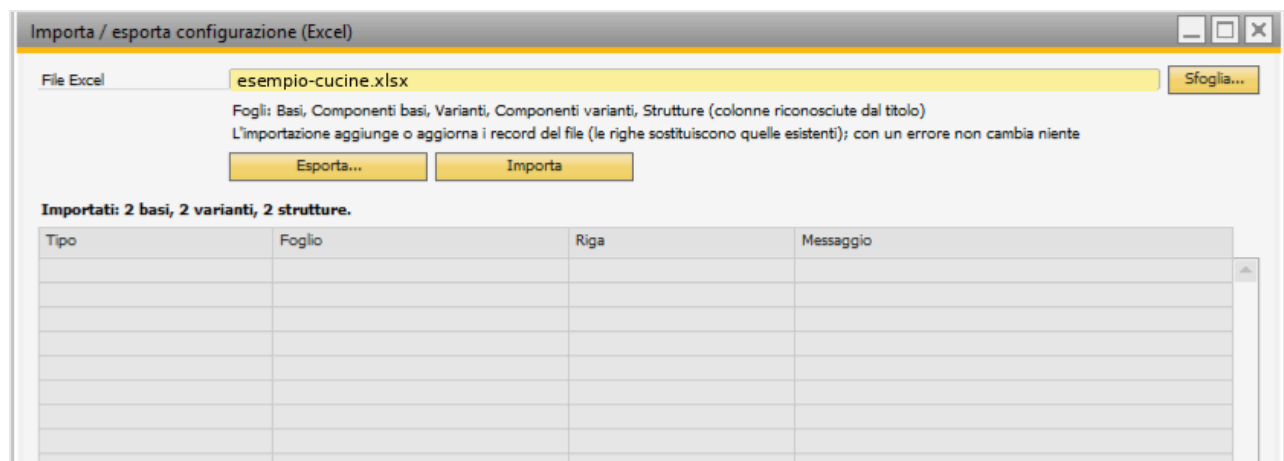


Verifica configurazione				
Errori: 2 Avvisi: 1				
Doppio clic su una riga per aprire l'anagrafica da correggere				
Tipo	Anagrafica	Codice	Riga	Problema
Errore	Basi	MI2	1	La struttura varianti STR1 del valore .300 non esiste.
Errore	Basi	MI2	2	La struttura varianti STR1 del valore .500 non esiste.
Avviso	Basi	ZT3	1	Il valore 060 eredita le varianti, ma nei livelli precedenti non ci sono varianti uguali alle sue.

Check: a variant structure that does not exist and a value that inherits with no variants to inherit.

Type	Check
Error	base with no length; code with a length different from the base; repeated code
Error	sub-level, variant structure, item group, UoM group that do not exist; invalid properties
Error	variant that does not exist in a structure; repeated option
Error	component with no item, with an item or warehouse that does not exist, with zero quantity, for a value or option that does not exist
Error	base that is a sub-level of itself (loop, with the path); no first-level base
Warning	base with no active values; structure with no variants; variant with no active options
Warning	base that cannot be reached from the first level (sub-level only of inactive values)
Warning	path that gives codes longer than 50 characters, suffix included
Warning	value that inherits variants with no matching variants on the previous levels; Force inheritance without Inherit variants
Warning	formula with unknown placeholders or wrong square brackets

13. Excel import and export



Successful import of the example file.

Export... asks where to save and writes the whole configuration to an .xlsx file, one sheet per master data type, with a bold, frozen header. **Import** reads the selected file (*Browse...*). When you enlarge the window, the file name and the result list widen.

Sheet	One row per	Columns
Basi	value (the base data are repeated)	Base, Descrizione base, Lunghezza, Classificazione, Tabella utente, Campo utente, Codice, Descrizione, Desc. articolo, Desc. straniera, Sotto livello, Struttura varianti, Eredita varianti, Forza ereditarietà, Attivo, UM magazzino, UM acquisti, UM vendite, Valore, Dim. 1, Dim. 2, Dim. 3, Peso, Gruppo articoli, Gruppo UM, Proprietà, Note
Componenti basi	component	Base, Valore, Componente, Descrizione, Quantità, Magazzino, Note
Varianti	option	Variante, Descrizione variante, Tabella utente, Campo utente, Opzione, Descrizione, Desc. straniera, Alias, Valore, Peso, Proprietà, Note, Attivo
Componenti varianti	component	Variante, Opzione, Componente, Descrizione, Quantità, Magazzino, Note
Strutture	variant	Struttura, Descrizione struttura, Variante, Descrizione variante, Posizione, Pos. descrizione

- Columns are recognized by their **title**: the order does not matter and unknown columns are ignored. The file can also contain only some of the sheets.

- Numbers in Italian format (1.234,5) or English format (1234.5); yes/no with Y, S, Sì, X, 1, Vero.
- Codes with leading zeros (060) must be written as text (in Excel with an apostrophe: '060), otherwise Excel turns them into numbers.
- The import **first checks the whole file**: if there is an error it writes nothing, and the list shows sheet, row and reason for each error.
- Then it writes everything together: each base, variant or structure in the file is added or updated and its rows **replace** the existing ones; components change only for the bases and variants present in the component sheets; whatever is not in the file stays as it is.

Typical uses: export, edit in Excel (new values, updated prices) and import again; copy the configuration to another company; start from an example such as [esempio-cucine.xlsx](#).

14. Item Master Data, consistency check, other add-ons

Picture thumbnail

With the *Thumbnail* option, Item Master Data shows the item picture (Picture field, in the SAP pictures folder) in the free space of the header, to the left of the Inventory Item / Sales Item / Purchase Item check boxes. The frame takes the proportions of the picture and is hidden if the item has no picture. Item Master Data does not slow down.



The thumbnail in Item Master Data.

Consistency check

It recalculates the composition of all generated items. It is useful if the configuration data have been changed outside the add-on; it also removes the compositions of items deleted in SAP.

Integration with other add-ons

With a *menu after creation* in the settings, for each item created the add-on runs that menu after recording the item code in the XEI table @XEI_IG_EVENTS: another add-on listening to that menu can complete the item.