### **OPEN ENTITY TEMPLATE STRUCTURE**

To create the required functionality, we need to plan a data structure. Almost all the functionality that can be developed will rely in one way or another on the Base Templates.

Custom Templates are tailored customizations for users or groups of users of the Base Templates, where configurable fields overlap those of the base template. This way, we can create custom templates for users or user groups based on the same base template.

A Custom Template will only appear on the main Open Entity page under the Main Utility section or in one of its Folders when it is created for a specific User or Group.

Finally, Template Groups form a sequential list or group of Custom Templates that can be executed directly by the Manager, by Project Queues (weekly calendar), or by scheduled change notifications (webhooks).

There are also two additional types of templates that provide extra functionality to the Base Templates, namely "Get from" Templates and "Conditions." The Request template allows a user to request information from another company or Business Central environment by invoking an external Base Template. These templates are incorporated into the Custom Template in place of the Base Template so they appear in the 'Main Utilities' section of the Dashboard and can be used by the user.

Separate from this structure, there are specialized templates for Data Replication that can only be executed directly by the Manager or the Business Central Job Queues. Replication templates include a weekly calendar with various configurable destinations.



The Manager can access and make use of all these tools or objects either from the stacks on the dashboard or by expanding the Actions menú:

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## BASE TEMPLATES

For all actions to be developed on composite entities that require great flexibility, we use base templates. As their name suggests, they are the foundation upon which the rest of the templates are built.

We access the Base Templates from the Manager's Dashboard:

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# BASE TEMPLATES LIST

When selecting one of the two mentioned options, a list of the created or downloaded templates will be displayed.

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	MC	ODIFYITEMS			Modify some fields	Both	100		1	DEMO	
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	ON	NLYDOCSALE	ES		Only Sales documents	Target	0	<b>v</b>	0		
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	SCE	EN04-DISCO	VERORDER		Find the record in Log by its track code	Source	10000	✓	0	EXTERNAL APP	
	SCE	EN04-QTY I	TEM ORD		Returns the Outstanding Quantity of Items	Both	10010		0	EXTERNAL APP	
	SCE	EN04-READ	ORDLINES		Read the Lines of an Order	Source	10020	✓	0	EXTERNAL APP	
	SCE	ENARIO 04 -	- CUST		Get the customer code, name and credit for	Source	10030	✓	0	EXTERNAL APP	
	SCE	ENARIO 04 -	- ORDER		Import Sales Order	Target	10040	✓	0	EXTERNAL APP	

# CREATING A BASE TEMPLATE

By clicking on the NEW action, a blank base template form will be displayed.

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(	OE Template Base														
	🗈 Copy-Paste 🔋 Export Data 🛛 🕮 Excel 🕣 Run P	Process 📑 Sa	ve File 📲 Ard	chive  🔝 Copy Template	Permissions	∑ Vars	& Formulas 🛛 🕌 Get and Enable All	Fields 🛛 🔀 De	lete Obsole	te/Unexistent Fi	ields 🥻	Get Relate	ed Tables		(i
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#### USER TEMPLATE DATA

The template data is divided into six sections:

- 1. General: Contains the initial data of the template, such as its code, the 'parent' source data table, whether it will allow external requests, etc.
- 2. Lines: The data from the parent and related tables, their fields, filters, etc.
- 3. Field Relations: How or with which fields the previous lines are related.
- 4. Parameters: We can create parameter variables that serve for template logic, formulas, filters, etc.
- 5. Output Properties: General modifiers for output actions such as the 'perspective' of the action, whether it is executed in the foreground or background, etc.
- 6. Excel Options: Includes settings like the file and sheet name in Excel, and whether the indentation defined in the Lines section will be applied in Excel.
- 7. Requester Page: Selection of the page type to run the template and the option to hide some of its sections.
- 8. XML Options (Imports): This section is only relevant when the template is used for external imports (files or data submissions from third-party applications).

#### **CREATING TEMPLATES**

We are going to create a product-based template to export to another company or database.

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	exportitems							
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	4							•

To do this, we must start by filling in the fields in the General section:

- **Code**: The main code of the template.
- Source Table ID: The source or root table on which the rest of the data will depend. Whether this field can be left empty or not depends on the type of page we expect to use to execute the action. If this template can be run with the selector and this field is empty, the selector will not know which initial data to display, and we will not be able to proceed with the action. However, if it's a template that we know will only be run with the launcher, there's no need to fill in this field. To make a template more flexible, we usually fill in this field and also insert it in the first line of the Lines section (with zero indentation), where we can further define the data with field and filter configurations.
- Source Name: A non-editable field that shows the name of the table selected in the previous field.
- **Operation**: When creating detail lines, this will default to the value in the header. If we change it and already have existing lines, the system will ask if we want to update them as well.

When we perform an action like exporting data, for example, with the **Transform at** field in the Execution Properties section set to **Source**, the operation applied to the entire template (lines) will be the one described in this field from the General section. Conversely, if the field is set to **Target or Both**, the operations executed will be those configured for this field in the Lines section, ignoring the Operation field from the General section.

- **Table Trigger**: Similar to the previous field, this is a default value that new lines will inherit, or it will ask if you want to update the existing lines. It enables the execution of internal processes in Business Central when an action like insert or modify is performed.
- **Permissions**: Specifies which users can execute the template. If the value is zero, any user can potentially run it. Once a user is defined, this 'freedom' is revoked, and execution is restricted to the configured groups or users who are enabled (the enable field activated). We can access this configuration page either from the Permissions field in the General section or via the action button at the top.

We can access this configuration page either from the Permissions field in the General section or via the action button at the top.

OE Exe	DE Execute Permissions for Template								Not	saved	ď	2
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	User							User Group	Allow Delete (from external apps)	Enabled	Ŧ	
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- Allow Request: If enabled, it will allow an external request to execute the template to supply its data.
- Enable: If checked, this template is operational; otherwise, it cannot be executed. The import of templates from the Tenants page (Get Templates) takes this field into account. It will only read templates that have the Enable field activated.
- Use-Make Equivalence: Used exclusively in exports, it serves to create or remember an equivalence between a source and destination record.
- Folder: Used for organizational purposes to filter templates by function, owner, etc.
- **Template-Use**: Indicates how many custom templates are based on or use this base template.

#### NOTES ON THE GENERAL SECTION

1 - The Code field cannot be changed after a value has been entered.

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	EXPORT	TEMS2												
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	× The page has	an error. <u>Refresh (F5)</u> to un	do the change, or cor	ect the error.										
	🛛 The Code of a	Template can't be change	d. Use Copy Template	Action instead with	the new Code	and Delete the curren	t after check that	! Be careful, the curr	rent temp	plate code could being used by	others Companies or Tenants!			
	General													
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This control is necessary to prevent any issues that could arise from renaming the template. It may happen that a template is active and being used by other companies or databases.

If it's a new template, this wouldn't matter much, but for security reasons, this control is maintained. If we regret the code entered, the same error message provides an alternative solution (Copy Template action). If the current template has no associated dependencies, it can be deleted after verifying that the new template has been successfully copied with the new name or code.

## OUTPUT PROPERTIES, EXCEL PARAMETERS AND REQUESTER PAGE

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	🗈 Copy-Paste 🔋 Export Data 🖽 Excel 🔹 Run Process 🗋 Save File 📲 Archive 💵 Copy Template 🖶 Permiss	Permissions 🏂 Vars & Formulas 📲 Get and Enable All Fields 🖹 Delete Obsolete/Unexistent Fields 👫 Get Related Tables \cdots 🌒
	Lines >	Links +
	Field Relations >	(There is nothing to show in this view)
	Parameters >	Notes +
		(There is nothing to show in this view)
	Execution Properties	
	Transform at · · · · · · · · · · · · · · · · · ·	
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# SECCION EXECUTION PROPERTIES

In this section, we find three fields:

• **Transform at**: This field indicates where the programmed transformations will take place, typically related to the Export operation, and has three possible values.

- Source: Means that the exported data will be sent and transformed at the source, with no additional changes possible, as they won't be received or processed by any destination template. The only changes or transformations possible will be defined at the source. For example, if we want some fields to have a fixed value when exported or retrieve values from a specific table or calculate them, all these modifications must be defined at the source (field configuration) when using this perspective.
- Target (destination): This is the opposite of the Source, where any source modifiers are ignored, and only the scheduled changes at the destination are processed. It needs to know where to "go" with the destination template code that has been configured.
- **Both**: As the name suggests, it combines both options, calculating changes at the source, sending them, and allowing them to be changed again at the destination. In this case, if the same field is modified at both the source and the destination, the final destination value will prevail.



Diagram 'Transform at' or Perspective:

**Note**: Choosing one perspective or another does not imply that the source or destination template should not have its own modifiers; they will simply be considered or ignored depending on the value of the **Transform at** field when executed.

**IMPORTANT**: ALL MODIFIERS OR TRANSFORMERS DEFINED IN THE FIELD CONFIGURATION FOLLOW THE ABOVE RULE, EXCEPT FOR THE **FUSE** FIELD, WHICH ONLY WORKS IN **SOURCE** OR **BOTH**.

When the **Transform at** field is set to **Source**, table and field names are generated with their numerical format when sent. In the other two options, the table and field names are transferred without special characters. If a tag is configured, either in the lines (tables) or fields, it is replaced by that tag. The **Tag** field or column is extremely useful for assigning different records or fields or for reading data from external sources.

• Run Type: normal, background, or programmed.

This indicates whether the execution of an action will be done in the foreground (normal execution), in the background (freeing the user to manage other tasks) or stored for execution by a scheduled process (Business Central job queue). All executed actions are recorded in the application's outbox, and the information received is stored in the recipient's inbox. When an action is executed, it logs the results (whether it succeeded, failed, and why).

**Note**: For scheduled executions, any data to be replaced or parameters to be used will be those defined as fixed in the template, not those launched with the launcher. The only actions that can be executed with the **Programmed** option are **Copy-Paste**, **Export Data**, and **Run Process**, and as mentioned, the required values are taken from the template when executed.

• Execute at Target: If enabled, the import at the destination will be automatically processed. Otherwise, the information will be stored in the destination inbox, waiting for a user to manage it.

Note: If enabled, the Retain external execution field in the Set up page (Series & Others section) will prevent actions with Execute at Target from external sources (another company, database, or tenant) from being automatically executed.

## **EXCEL PROPERTIES SECTION**

The Excel Properties section allows you to configure a file name (File Name field) and a worksheet name (Name of Sheet field). If left blank, default names will be assigned based on the template code, date, and time.

The **Include indentations** field indicates whether we want to nest the data in the Excel columns according to the template structure or if we prefer all rows to start in the same column.

## SECTION REQUESTER PAGE

This section defines whether the template has an initial page for requesting information or execution of a selector type, launcher, or if it runs without user intervention.

The selector will display a List-type page from which we can choose the data we want to process.

Record Lookup $\sim \sim$		2 ×	
○ No.↑ Description↑	Inventory 1		
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✓ 1906-S Pedestal móvil A	ITENAS 5	435,8	
O 1908-S Silla giratoria LO	NDRES, azul 3	191 B Edit List Launch	ß
O 1920-S Mesa de confere	encia AMBERES 10	651,1 J	<u>^</u>
O 1925-W Paquete de conf	erencia 1-6 0	189,8 Template	
O 1928-S Lámpara ÁMSTE	RDAM -20	55,2 Code Code EXPORTITEMS Table Name Code Item	
O 1929-W Paquete de conf	ierencia 1-8 0	235	_
$\rightarrow$ <b>2</b> <u>1936-S</u> Silla invit. BERLÍN	V, amar. 100	193,7 Iable ID 27	
O 1953-W Sección invitado	s 1 -49	126,4	
O 1960-S Silla inv. ROMA,	verde 2	193,7 OE Filters Section >	
O 1964-S Silla inv. TOKIO,	azul 4	193,7	
O 1965-W Paquete de confi	ierencia 2-8 -81	235	
O 1968-S Silla giratoria Mé	ÉXICO, negra -30	191 OE Replace Section >	
O 1969-W Conjunto de con	ferencia 1 -7	343.5	
		OE Parameters Section >	
		OE Tables Selection	Ŀ
With the launcher page, we can substitute field	d values, configure selections that	ON Target Table Name Enabled	
make up the structure of the template without	t needing to modify them	directly.	
The remaining four fields in the 'Requester Pag of the Launcher page ('Hide Replace', 'Hide Filt 'Hide Tables Selection')	ge' section are used to hid ers', 'Hide Parameters', ar	e sections nd	▼ Close

# SECTION XML Options (Import)

In this section, we can reorder an XML input by placing simple elements or nodes at the beginning, followed by more complex nodes or those with "children" (which could be imported into other tables). It also renames a tag by incrementing its name numerically if it finds a duplicate in a different branch of the data structure.

Activating these options may be relevant to ensure the correct import of data received from another external application.

XML Options (Import)	
Sort XML	Rename XML Tags

## SECTION LINES

The Lines section is where we actually create the structure of our new entity. Its structure is typically hierarchical, but it is also possible to generate a linear template (one level). If we have configured the 'Source Table ID' field in the General section, we can link it to the line tables directly from the Field Relations section.

It is also possible to configure a user template without a defined header table, but with data lines, whose selection will depend on the filters we have set. If we want a user to have the option to manually select records from the Requester Page Selector, we must have a value set in the 'Source Table ID' field.

The most common scheme is to repeat the header table in the first line, as it is in this section that we can configure more precisely the data selection and manipulation (fields, filters, fields for Excel, reading key, etc.) that will be used in the process.

Note: To preview the data before operating with them in the database, we can use the 'Save File' action, which will save an XML file to our computer.

Co	Copy-Paste	Export Data 🛛 🙀	Excel 🌖 Run P	rocess 📑 Sa	ve File 🛛 🐻 Ar	rchive 🔝 Copy Templa	ate 🛛 🗄 Permissions	躗 Vars & For	ormulas 🛛 🖀 Get and Enable	All Fields 🛛 🔀 De	elete Obsolete/	/Unexistent Fi	elds 👫	Get Related Tab	oles	
Gene	eral															
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Operat Table T Lines Ta	Trigger	ine Provide La Target Table Nan	ne 🚯 Use Key	Clear Key	Related Table ID 27.	ader 🕮 Excel Line <	<ul> <li>Indent</li> <li>Operation</li> <li>Insert-Mod.</li> </ul>	Template Use Table Trig Key	е У	Fields	Formu	Filters	Fusion	Excel	Ena	<i>₽</i> Fc
Operat Table T Lines Ta →	Trigger	ine ➡ Delete L Target Table Nan : Item Object Type ↑	ne 🏚 Use Key e	Clear Key	Excel Heat Related Table ID 2.7.	ader @ Excel Line  Tag	Indent Operation Insert-Mod.	Table Trig Key	eγ	Fields	Formu	Filters 0	Fusion	Excel	Ena	E Fo
Operat Table T Lines Ta ↓	Trigger · · · · · · · · · · · · · · · · · · ·	ine → Delete L Target Table Nan : Item 01 ♥ 27 Table	e Object Caption	Clear Key Indentation 0	Excel Heat Related Table ID 27.	ader @Excel Line  Tag	Indent Operation Insert-Mod.	Table Trig Key	e	Fields	Formu No	Filters 0	Fusion	Excel 0	Ena	E Fo
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Operat Table T Lines Ta Fie	Trigger · · · · · · · · · · · · · · · · · · ·	ine Delete L Target Table Nan i Item Object Type↑ Cobject Type↑ Table Table Table Table	e Object Caption Item Item Translat Item Picture I	Clear Key Indentation 0 ion Buffer Entry	Excel Heat Related Table ID 2.7.	ader @ Excel Line  Tag	Indent Operation Insert-Mod.	Table Tríg Key	е у	Fields	Formu	Filters O	Fusion	Excel 0	Ena	E Fo

## FIELDS IN THE LINES SECTION

- **'Target Table ID'**: The table number. Selectable through the drilldown control or the 'three dots' button.
- 'Target Table Name': The table name is not an editable field; it is automatically populated when the previous field is validated.
- 'Indentation': The nesting level in the data hierarchy we are creating. It is managed using the left and right arrows in the actions menu of the Lines section. This field cannot be edited directly.
- 'Related Table ID': Informational field that indicates the number of the previously related table. It is not editable and changes based on the assigned indentation level in relation to its parent line.
- Tag: If any text is entered in this field, it will replace the table name. This feature also exists in the field configuration, where it replaces the field name. It is extremely useful for matching data from different entities, acting as a link for external requests from another Business Central instance, or serving as a tag for filtering in queries or external processes.
- 'Operation': For the user template, the available operations are Insert-Modify, Incremental Insert, Only Read, Only Insert, and Only Modify.
  - This field only operates during data entry, such as when performing Paste or Import actions in the destination database.
    - Insert-Modify: Inserts or modifies the received data.
    - Incremental Insert: Inserts a record whose primary key is or ends with an integer. Before inserting data, it checks for the last number and
      increments its value to avoid collisions with existing data. This operation is typical for data insertion, such as in general journals that may contain
      other records differentiated by their line number.
    - Only Read: Only reads the data but does not import it. This is particularly useful for searching values outside the entity's structure (Get From) and for storing values to be used later (variables) in the template.
    - **Only Insert**: Only performs the insert operation. If the record already exists, the error will be logged in the Operation Log.
    - **Only Modify**: Only performs the modification operation. If the record does not exist, the error will be logged in the Operation Log.
- **'Table Trigger'**: This field only operates during data entry and triggers events associated with table insertion and modification. There is an equivalent configuration for fields.

• 'Key': The sorting key used to select the data. If left blank, the primary key is used by default. You can select the key in the Lines action bar with the 'Use Key' option. 'Clear Key' will erase the currently configured key.

Lines	<b>}</b> <sup>₩</sup> New	Line 🛛 🔭 Delete Line	😥 Use Key	🔀 Clear Key	Excel Hea	ader	🕮 Excel Line 🛛 🖣	Inder	nt												6 6
Targ	et Table ID	Target Table Name		Indentation	Related Table ID	Tag		Оре	eration	Table Trig	Key				Fields	Formu	Filters	Fusion	Excel	Ena	Force
$\rightarrow$	27	: Item		0	27.			Ins	ert-Mod	🗆					0	No	0	No	0	<ul> <li>Image: A start of the start of</li></ul>	
									Та	ble Ke	eys .	<i>ب</i> 0								2 >	<
4													5	5							•
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													2		Search Descri	iption					
													3		Inventory Pos	sting Group					
													4		Shelf No.						
													5		Vendor No.						
													6		Gen. Prod. Po	sting Group	)				
													7		Low-Level Co	de					
													8		Production B	OM No.					
													9		Routing No.						

- **'Enable'**: Enables or disables the line to be processed.
- **'Force'**: Allows you to "force" the creation of a record in a table without any related imported data.

The remaining fields—Fields, Formulas, Filters, Fusion, and Excel—are informational and reveal how many elements they contain or if any properties are configured.

The most relevant ones are **Fields**, **Filters**, and **Excel**, which will display the number of defined elements. You can access their respective configurations by clicking on them.

L	nes	<mark>}</mark> <sup>≭</sup> Nev	v Line	e 😽 Delete Line	😥 Use Key	🔀 Clear Key	🙎 Excel Hea	ader E	🕮 Excel Line 🛛 🖣	Indent								Ľ	8 2
	Targ	get Table ID		Target Table Name		Indentation	Related Table ID	Tag		Operation	Table Trig	Key	Fields	Formu	Filters	Fusion	Excel	Ena	Force
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													d'	7					
4																			•

## FIELD CONFIGURATION (Fields):

By clicking on the value in the Fields column, the field configuration page will open. If the value of this field is zero and any general template action is executed, the result for this line will be null since it will not contain any elements (fields).

## Field List Page:

$\leftarrow$	TableData · 27																							۲° م <sup>ر</sup>
	OE Field Lines	Ø~ , 0	🕽 🕴 🕂 New	🐯 Edit	List	🗊 Delete	🗓 Delete All	👫 Get &	Enabled All	🖃 Enable	d All 🏾 🐌 D	isable All	<mark>₽₽</mark> Check Du	plicates.	<b>;</b> -	Enabled	d Selecte	d 5	Disable S	elected	🖩 Ch	eck formu	ilas ··· 🖻	? \ ≣
	Field ID <b>T</b>	Field Name	e Tag	J Order ↑	Serie No.	Get Serie When	Get From	Field Value	Mapping (Imports)	Ena Map	Variable Id	Formula	Condi	lgn. For.		Equal Field No.	Fuse	Cha Sign (nu	Vali	Edit	Visi	Ena	Lookup Page No.	Lookup Field No.
	→ C			0					0				No	(		0							0	0
	LI		1						1	1		1					1		1	1			1	1

On the **Field Configuration** page, in addition to adding, deleting, enabling, or disabling the fields needed for our custom entity, this is also where the core of data transformations takes place. Before diving into this aspect, let's outline the main maintenance actions for this configuration.

It should be clear that the manipulation of these data is not performed on the actual tables, but rather on a field configuration template within the **Open Entity** application.

### MANUAL ENTRY

Click on the 'New' or 'Edit List' action, then select a field from the 'Field ID' column.

E Fi	ield Lines	$D \sim$	,	+ New	🐯 Edit List	📋 Delete 📋 Delete	All 🔛 G	et & I	Enabled All 🔚 Enabled All	🗞 Disable All 📮 Check Duplicates.	🖹 Enable	ed Selected 🗧 🐤	Disable	Selected	🛄 Che	eck formul	as ··· 🖻	2 1
					Order Se						Equal	Cha					Lookup Page	Lookup Fie
	Field ID		Field Name	Tag	Î N	Fields Lookup	$^{\circ}$					ZX	Vali	Edit	Visi	Ena	No.	ľ
>	0	 Det			0												0	
		-					No. 1		Field Name	Field Caption								
						$\rightarrow$	1	÷	No.	No.		<u>^</u>						
							2		No. 2	No. 2								
							3		Description	Description								
							4		Search Description	Search Description								
							5		Description 2	Description 2								
							6		Assembly BOM	Assembly BOM								
							8		Base Unit of Measure	Base Unit of Measure								
							9		Price Unit Conversion	Price Unit Conversion								
							10		Туре	Туре								
							11		Inventory Posting Group	Inventory Posting Group								
							12		Shelf No.	Shelf No.								
							14		Item Disc. Group	Item Disc. Group								
							15		Allow Invoice Disc.	Allow Invoice Disc.								
							16		Statistics Group	Statistics Group								
							17		Commission Group	Commission Group		_						

Once this action is performed, you will see the field in your field configuration template, and the **Enabled** field will automatically activate after inserting the row. Manual editing is typically used when there are only a few fields to configure. To save time and effort, you can use the 'Get & Enable All' action and then delete the rows (fields) that are not needed.

The following actions, 'Delete' and 'Delete All', will remove a single field or all fields, regardless of whether the Enabled field is activated or not.

The 'Get & Enable All' action automatically retrieves all the fields from the table and enables them. Additionally, it performs an extra check to prevent duplicate field names when converting them to XML (without special characters) by adding a tag with the field number.

DE Field Lines	$Q \sim$	ρ 🖪	+ New	🐯 Edit l	List	🗊 Delete	🗓 Delete Al	Get &	Enabled All	🖃 Enable	d All 🏾 🗞 Di	sable All	🚏 Check [	Duplicate	s. 🖻	Enable	d Selecte	ed 5	Disable S	elected	🔝 Ch	eck formi	ulas … 🖻 🍸 🗄
Field ID <b>T</b>		Field Name	Tag	Order ↑	Serie No.	Get Serie When	Get From	را Field Value	) Mapping (Imports)	Ena Map	Variable Id	Formula	Cor	lg Idi Fo	n or	Equal Field No.	Fuse	Cha Sign (nu	Vali	Edit	Visi	Ena	Lookup Page Lookup F No.
→ 1	÷	No.		0					0				No			0						~	0
2		No. 2		0					0				No			0							0
3		Description		0					0				No			0						~	0
4	i i	Search Descr		0					0				No			0						~	0
5		Description 2		0					0				No			0						~	0
6	i -	Assembly BO		0					0				No			0						~	0
8	1	Base Unit of		0					0				No			0						~	0
9	1	Price Unit Co		0					0				No			0						~	0
10	1	Туре		0					0				No			0						~	0
11		Inventory Po		0					0				No			0						~	0
12		Shelf No.		0					0				No			0						~	0
14		Item Disc. Gr		0					0				No			0						~	0
15		Allow Invoice		0					0				No			0						~	0
16	i	Statistics Gro		0					0				No			0						~	0
17	·	Commission		0					0				No			0						~	0
18		Unit Price		0					0				No			0						~	0
19	1	Price/Profit C		0					0				No			0						~	0
20	)	Profit %		0					0				No			0							0
21		Costing Met		0					0				No			0						~	0
22	1	Unit Cost		0					0				No			0						~	0
24	t I	Standard Cost		0					0				No			0							0
25		Last Direct C		0					0				No			0						~	0
28		Indirect Cost		0					0				No			0							0
29	1	Cost is Adjus		0					0				No			0							0
				-					-	_					_			_	_	_	_	-	_

With the buttons **Enable All**, **Disable All**, **Enable Selected**, and **Disable Selected**, you can easily and efficiently manage the activation of fields as needed. Only the fields with the **Enabled** column activated will be considered for actions on the template.

The **Check Duplications** button, as mentioned earlier, will add a custom name in the **Tag** column to prevent duplicate or conflicting names when converting to XML format during Open Entity processes (which don't allow special characters). You can modify the tag if desired, but it must be different from the original matching field.

For instance, consider fields named 'Line Discount %' and 'Line Discount \*'. Both would convert to 'LineDiscount', which can cause issues during XML conversion. The Check Duplications and Get & Enable All actions help avoid this problem by detecting potential duplicates in advance and updating the Tag column with a unique name, such as

'LineDiscount3', where "3" would represent the numeric code of the field in Business Central. Remember, if the Tag column is filled in, it will replace the field name during the processes that are executed.

The **'Lookup Page No.'** and **'Lookup Field No.'** fields allow you to perform or force a lookup action on fields that appear on the launcher page. Some fields might not need this action, but others will not trigger a lookup automatically.

The rest of the columns in this configuration list will be discussed later in the **Data Transformation** section.

### FILTERS

By clicking on the value in the **Filters** column in the Lines section, you will access the filter configuration page:

In the filter list, by pressing New or Edit List, a blank row will be created where you can select the field to filter from the Field ID column.

There are three ways to filter a field:

- 1. Using the **Operator Field Value** pair (fixed value).
- 2. Using the **Operator Var or Formula** pair.
- 3. Using a Filter String, which is the common filter string used in Business Central.

Note: The range operator '..' must have both a start and an end. Filters like '010124..' or '..CUST-0100' will NOT work. Filters such as '010124..310324' or 'CUST-0001..CUST-0100' will work correctly.

$\leftarrow$	TableData · 27											√ Save	ed ⊏' ,⊀
	OE Filter Lines 🛛 🖉	✓ P ■ +	New 💀 Edit List	📋 Delete									┢ ү ≣
	Field ID <b>T</b>	Field Name		Order 1	Operator	Field Value	Var or Formula	Filter String	Edita	Visible	Enab	Lookup Page No.	Lookup Field No.
	$\rightarrow$ 1	: No.		0	<> <b>—</b>	▶ 1936-S	1					0	0

For the Filter String column, the filter shown in the previous image would be represented as '<>1936-S'.

Among the three filtering options, Filter String is the most versatile since it supports Business Central filters (range, logical operators, etc.).

Each time you manually validate data in any of the three fields ('Field Value', 'Var or Formula', or 'Filter String'), the remaining fields are cleared automatically.

In the 'Var or Formula' column, you can compare the field with a variable whose value has been previously read or provided, or with the result of a formula that you have configured.

The **Editable** and **Visible** fields are related to the **Launcher Page** and allow the user to edit and/or see the filter value. If these options are not activated, the user will not be able to edit or see the filter that will be processed (invisible filter). If the **Visible** field is unchecked, the **Editable** field will also be unchecked automatically. Conversely, if the **Editable** field is selected, the **Visible** field will also be checked automatically.

If you want the filter to be visible but not editable, simply mark the **Visible** field.

The **Enable** field serves its usual function: if activated, the filter will be processed; if not, the field will not be filtered.

The Launcher Page will show the field 'No.' with the Editable property activated, allowing the user to modify that filter value.

OE Launcher	2 ×	
Edit List     Launch	OE Launcher	2 X
Template	🐺 Edit List 🚺 Launch	Ŕ
Code · · · · · · · · EXPORTITEMS Table Name · · · · · · Item	Template	
Table ID · · · · · · · 27	Code · · · · · · · EXPORTITEMS Table Name · · · · · · Item	
	Table ID · · · · · · · · 27	
OE Filters Section		
Field Name Operator Field Value Filter String	OE Filters Section	ĿĊ
Item	- Field Name Operator Field Value Filter String	Ena
$\rightarrow$ <u>No.</u> : <> <u>1936-5</u>	Item         Item         Item           →         No.         1936-S1960-S	

## Let's configure a couple of additional filters that will help us demonstrate some Excel field properties, such as **accumulation** (sum up) and **final total**.

$\leftarrow$	Table	eData · 27												√ Save	d ⊏',⊀
	OE Fi	ilter Lines	$D \sim$		🐯 Edit List	🗎 Delete									12 7 ≡
		Field ID <b>T</b>		Field Name		Order 1	Operator	Field Value	Var or Formula	Filter String	Edita	Visible	Enab	Lookup Page No.	Lookup Field No.
		1		No.		10				1896-S1996-S	~	<	<b>V</b>	0	0
		64		Date Filter		20					~			0	0
	$\rightarrow$	67 …	· :	Location Filter		30					~	✓	✓	0	0
					$\searrow$										

## **Excel Fields Configuration:**

We can leverage the entity we are building to generate reports in Excel. Since the data requirements (fields) for actions like copy-paste, export, archiving, etc., are likely to differ significantly from those needed for an Excel export, there is a specific configuration for Excel fields.

You can access the **Excel field configuration** by clicking on the value in the **Excel** column.

The method for configuring Excel fields is almost identical to that of normal field configuration, with the exception of the following columns:

- 'Format Number': This allows you to format numeric values in Excel.
- 'Change Sign': This is used to reverse the sign of a numeric value.
- 'Sum up': Indicates that the values in this field will be accumulated.
- 'Final Total': Specifies that a final total cell and a summary line will be created for the field or column.

### We have configured the following Excel fields using the **Order** column to arrange them as desired.

$\leftarrow$ o	OE Excel Fields									√ Save	ed ⊏ੈ ォ <sup>⊭</sup>
		lew 🐯	Edit List 📋 Delete 🛍 Delete All	👫 Get All 🛛 🖃 Er	nabled All 🏾 🗞 Disable All 🛛 🖹 Enabled Selected 🗧	Disable Selected	Nore options				☞ 7 ≡
	Field ID '	-	Field Name		Tag	Order 1	Format Number	Change Sign (numbers)	Sum up	Final Total	Enabled
		1	No.			10					~
		3	Description			20					~
		8	Inventory			30	#,##0.00		~	~	<b>~</b>
		2	Sales (Qty.)			40	#,##0.00		~	~	<b>~</b>
		8	Sales (LCY)			50	#,##0.00		<b>V</b>	✓	✓
		5	Qty. on Sales Order		Orders(Qty.)	60	#,##0.00		<b>v</b>	<b>v</b>	<b>v</b>
	66	0	Qty. on Sales Return		Returns(Qty.)	70	#,##0.00		<b>v</b>	<b>v</b>	<b>v</b>
		1	Purchases (Qty.)			80	#,##0.00		<b>V</b>	<b>V</b>	<b>v</b>
		7	Purchases (LCY)			90	#,##0.00		<b>v</b>	<b>v</b>	<b>v</b>
		4	Qty. on Purch. Order		Purch. Order(Qty.)	100	#,##0.00		~	~	<b>~</b>
	→ 57	7 :	Qty. in Transit		Transit ]	110	#,##0.00	~	~	<b>v</b>	<b>~</b>

In the template's Lines section, we can configure the Excel header schema to optionally display company data, date, time, user, and applied filters, as well as configure the Excel lines (number of lines between titles, data rows, hide table name, etc.).

You can access these properties from the **'Excel Header'** and **'Excel Line'** actions in the **Lines** section of the template.

Lines 🗦 🧚 New Line 🏞 Delete Line 🚯 🛛	Use Key 🔀 Clear Key 📝 Excel Header 🗖 Excel	Line <	Indent					
Excel Header Properties								
Excel Header Properties								
Company Name	User · · · · · · · · · · · · · · · · · · ·			Ex	cel Lines Properti	es		
Date ·····	Filters	~	OE Excel Prop	DRTITEMS	<ul> <li>⊘ </li> <li>№</li> <li>10000</li> </ul>	+ 1	√ Saved	
			Excel Prop	erties				
			Blank Rows T	able & Field Headers		Blank Rows Totals		
			Before Table		٥	Before Total		1
			After Table		1	After Total		1
			Before Fields		0	Final Total	D	
			After Fields		1	Hide		
			Blank Rows L	ines Detail		Table Name		
			Before Line		0	Field Names		
			After Line		0	View Only First		
						Title Table	0	
						Title Fields	D	
						Numerical Format		
						Total Numerical Format — #	,##0.00	

Then, we execute the action to create the Excel report from the general actions of the template. When the Excel Launcher page appears, we can edit the Excel section as needed, and after configuring the desired filters, we execute the **'Launch'** action. In this example, the **'Location Filter'** field has two single quotes (''), which will select only the data for products that do not have a location.

OE Template Base			ir + ∎				√ Saved	
EXPORTITEMS	OE Excel Launcher - EXPOR	TTEMS			2 X	lete/Unexistent Fields	🎁 Get Related Tables 🛛 …	(j)
General	Launch Page							
Code EXPORTIN	Template							1
Source Table ID	Code ····· EXPORTITEM	IS	Table Name	···· Item				
Source Name Item	Table ID		27 Record Selected					
Description Template								
Operation Insert-Mc	Excel							$\sim$
Table Trigger	File Name myitems		Include Indentation					0
Lines >	Name of Sheet							
	OE Filters Section				iê Ei			
Field Relations >					Fna			
	Field Name	Operator F	ield Value	Filter String	T			
Parameters >	ltem No.			1896-5 1996-5				
	Date Filter			010123311223				
Execution Properties >	→ Location Filter			"		_		
	<				•			
Excel Properties					Close			
File Name myitems			Include Indentation					
Name of Sheet								

When the process has finished, you will see a notification in your web browser indicating that a file has been downloaded, most likely to your Windows **Downloads** folder.

If you open it, you will see an Excel sheet similar to the following:

A	В	С	D	E	F	G	Н	I	J	K	L
1 Company	CRONUS ES										
2 Date	25/07/24										
3 Time	12:02:35										
4 User	TOLO.SASTRE										
5 Filters	No. : 1896-S1996-S, Date Filter : (	010123311223	, Location Fil	ter:"							
6											
7 Item											
8											
9 No.	Description	Inventory	Sales (Qty.)	Sales (LCY)	Orders(Qty.)	Returns(Qty.)	Purchases (Qty.)	Purchases (LCY)	Purch. Order(Qty.)	Transit	
10											
11 1896-S	Escritorio ATENAS	4,00	137,00	137.794,60	0,00	0,00	141,00	110.628,60	0,00	0,00	
12 1900-S	Silla inv. PARÍS, negra	0,00	90,00	17.433,00	0,00	0,00	90,00	13.599,00	0,00	0,00	
13 1906-S	Pedestal móvil ATENAS	5,00	78,00	33.992,40	0,00	0,00	83,00	28.211,70	0,00	0,00	
14 1908-S	Silla giratoria LONDRES, azul	3,00	57,00	10.887,00	0,00	0,00	60,00	8.934,00	0,00	0,00	
15 1920-S	Mesa de conferencia AMBERES	10,00	59,00	38.414,90	0,00	0,00	69,00	35.052,00	0,00	0,00	
16 1925-W	Paquete de conferencia 1-6	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
17 1928-S	Lámpara ÁMSTERDAM	-6,00	126,00	6.955,20	0,00	0,00	134,00	5.775,40	0,00	0,00	
18 1929-W	Paquete de conferencia 1-8	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
19 1936-S	Silla invit. BERLÍN, amar.	100,00	102,00	19.757,40	0,00	0,00	202,00	30.522,20	0,00	0,00	
20 1953-W	Sección invitados 1	-49,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
21 1960-S	Silla inv. ROMA, verde	2,00	82,00	15.883,40	0,00	0,00	85,00	12.843,50	0,00	0,00	
22 1964-S	Silla inv. TOKIO, azul	4,00	56,00	10.847,20	0,00	0,00	60,00	9.066,00	0,00	0,00	
23 1965-W	Paquete de conferencia 2-8	-81,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
24 1968-S	Silla giratoria MÉXICO, negra	-20,00	84,00	16.044,00	0,00	0,00	84,00	12.507,60	0,00	0,00	
25 1969-W	Conjunto de conferencia 1	-7,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
26 1972-S	Silla giratoria MUNICH, amar.	0,00	84,00	16.044,00	0,00	0,00	84,00	12.507,60	0,00	0,00	
27 1980-S	Silla giratoria MOSCÚ, roja	0,00	48,00	9.168,00	0,00	0,00	48,00	7.147,20	0,00	0,00	
28 1988-S	Silla inv. SEUL, roja	0,00	57,00	11.040,90	0,00	0,00	57,00	8.612,70	0,00	0,00	
29 1996-S	Pizarra ATLANTA, base	10,00	91,00	127.791,30	0,00	0,00	101,00	110.625,30	0,00	0,00	
30											
31 Total Item		-25,00	1.151,00	472.053,30	0,00	0,00	1.298,00	406.032,80	0,00	0,00	
32				T							
33	7			Total Item							
34 Total Item	-		ഹ								
35			<b>.</b>		Total Invent	ory	-2:	5,00			
36	Total Inventory	-25.00			Total Sales	(Qty.)	1.15	1,00			
37	Total Sales (Qty.)	1.151.00			Total Sales	(LCY)	472.053	3,30			
38	Total Sales (LCY)	472.053.30			Total Order	s(Qty.)	(	0,00			
39	Total Orders(Otv.)	0.00			Total Return	ns(Qty.)	(	0,00			
40	Total Returns(Otv.)	0.00			Total Purch	ases (Qty.)	1.29	3,00			
	(2))	5,00			Total Purch	ases (LCY)	406.032	2,80			
					Total Purch	Order(Qty.)	(	0,00			
					Total Trans	it	(	0,00			