FOLDERS

Folders are used to organize and classify base and custom templates into groups for greater agility and efficiency. Over time, as more templates are created, finding a specific one becomes easier when they are organized and filtered by the **Folder** field. This can be done directly from the template lists by clicking on the values in the **'Templates'** or **'Customs'** columns or by accessing the **Folder List** in the **Manager Control Panel** actions.

Dashboard	d Manager													
Manage	Actions \lor Fewe	er options												
Manage Open Entity - E Base and Custo Templates Lase Rase Notifications a	Actions V Fewe Setup Templates Custom Templa Custom Templa Folders WebHooks Archive Custom Fewe Equivalences Registered Ope	ates > ates > ate	Folders List 2 Conditions	Get From	Archive	Fold →	user 1 User 1 TOLO.SASTRE	+ N :	ew Edit List Folder 1 COPYPASTE DEMO	Delete Description Templates dedicated to copy-paste acti Demos	√ Saved Templates 2 4	Д 12	⊂″ Ƴ Custor	∑ ≡ 1 0
Business Centra	Permissions	>					TOLO.SASTRE		EXCEL	Templates 4 Excel	0			0
- 1	🔚 Inspect & Wiza	rds >					TOLO.SASTRE		EXPORTS	Templates for Export Data	0			5
							TOLO.SASTRE		EXTERNAL APP	Templates 4 Connectivity	5			0
Webhooks	Receptions						TOLO.SASTRE		HODGEPODGE	A mess of Templates	1			0
							TOLO.SASTRE		PROCESSES	Templates for Execute Processes	0			3
							TOLO.SASTRE		REPLICATION	Templates for Replicate Data	1			0
							TOLO.SASTRE		REQUESTS	Templates for Request Info	0			2
							TOLO.SASTRE		WEBHOOKS	Base Template 4 Webhooks	1			0

To create a new folder, click on the **NEW** or **Edit List** action and fill in the 'User,' 'Folder' (folder code), and 'Description' fields.

The 'Templates' and 'Customs' columns are non-editable and display the number of Base and Custom Templates "within the folder." Clicking on these columns will show which templates have the folder code, and you can access the templates by clicking on the Code field.

OE Folders List							
Ø~ , P							☞ 7 ≡
Code	Туре	Description	Transform at	Order 1	Ena	Tem Use	Folder T
COPYSALESORDERS :	Base	Copy-Paste Sales Orders	Both	0		1	COPYPASTE
CP-COPYSALESOR	Base	Copy-Paste Sales Orders	Target	0	~	1	COPYPASTE

OE Template Base - COPYSALESORDERS													
Manage 🗈 Copy-Paste 🏮 Export Data 🕮 Excel 🕣 Run Process 🗋 Save File 📲 Archive 🕼 Copy Tem	plate 📴 Permissio	ions 🛚 躗 Vars & Formulas	👫 Get and Enable All Fields	🔀 Delete Obsole	ete/Unexistent Fie	ds 🔒 G	et Related Tables		í				
General													
Code · · · · · COPYSALESORDERS		Permissions							0				
Source Table ID · · · · · ·	36 🗸	Allow Requests											
Source Name Sales Header		Enabled											
Description Copy-Paste Sales Orders		Use-Create Equivalence											
Operation · · · · · · · · · · · · · · · · · · ·	\checkmark	Folder		COPYPASTE					\sim				
Table Trigger		Template Use							1				
Lines 🧚 New Line 🏵 Delete Line 🏚 Use Key 🔀 Clear Key 😰 Excel Header 🏾 🖽 Excel Line ┥ 🕨	Lines 🧚 New Line 🏕 Delete Line 🏚 Use Key 😥 Clear Key 🗵 Excel Header 🍕 Excel Line 🔺 🕨 Indent												
Target Table ID Target Table Name Indentation Related Table ID Tag	Operation	Table Trig Key		Fields Formul	Filters	Fusion	Excel	Enab	Force				
→ 36 : Sales Header 0 36	Insert-Mod	lify 🗌		4 No	2	No	0	V					
37 Sales Line 2 36	Insert-Mod	lify 🗌		6 No	2	No	0	✓					

WEBHOOKS

Webhook Services are notification services in Microsoft Business Central that track changes in data—whether from the insertion of a new item or record, its deletion, or modifications to any fields.

Currently, Business Central cannot receive these notifications internally; they only function externally, such as towards an Azure function or external applications. To enable the use of webhooks, we offer C# code for an Azure function that redirects these notifications back to Business Central. This function must be installed in the client's Azure environment. Since installation details are beyond the scope of this manual, we recommend consulting Microsoft's documentation on Azure functions and installation.

NOTE: If using an Azure function for webhooks, it's generally advisable to have an active ping test, as Azure functions can sometimes have a delayed startup (cold start) if not frequently used. This can lead to lost notifications if the function is not ready to receive Business Central's data in time. Currently, this ping test service is free and helps prevent cold starts, but Microsoft has announced that it will end this service by September 30, 2026, after which it will transition to standard tests.

Business Central also provides the necessary mechanism to start subscriptions to these services, either towards the previously mentioned Azure function or third-party applications (using the **URL Endpoint** field). Additionally, notifications from the Azure function can be received to manage or execute a configured template group.

Access webhook service settings via the Control Panel or Dashboard Manager.



The first option, 'WebHooks BC List,' will display an empty list the first time. Click on the 'Get WebHooks' action to populate it. The inserted records are the various change notification services that Microsoft offers. Typically, this action to retrieve services is performed only occasionally—when we want to update the list, or when Microsoft has created a new service or released a new version

OE We	ebhooks Business Central List	√Saved 🗍 🗖	2
\times	The action was executed correctly!		~
Ø.	✓ ,	r T	=
	Element Name Path Name 1		
\rightarrow	customerFinancialDetails beta/custome	erFinancial Details	-
	supportContactInformation microsoft/adm	nin/beta/supportContactInformation	
	postedPurchaseInvoices microsoft/aut	omate/v1.0/postedPurchaseInvoices	
	postedSalesInvoices microsoft/aut	omate/v1.0/postedSalesInvoices	
	configurationPackages microsoft/aut	omation/v1.0/configurationPackages	

Once we have a list of available services, we can configure the necessary webhooks.

CONFIGURATION LIST

Access this from the **Control Panel** by selecting **Webhooks -> Configuration List** or from the **Webhooks** cue.

This is the page where we'll create subscriptions to these services and link them to our Azure function or other external applications.

The page is divided into two sections: 'Configuration List' and 'Webhooks Subscribed to BC.'

- In 'OE Webhooks Configuration List,' we create our subscription by selecting the service of interest from the list we downloaded in 'WebHooks BC List.'
- The second section, 'Webhooks Subscribed to BC,' displays the services we are already subscribed to. This section is purely informational, showing if the subscription was successfully created and additional details like the expiration date. Currently, these services expire after 3 days, so they need to be renewed in some way if we want them to remain active over time.

To create a new subscription, click on the **NEW** action, and in the **'Webhook Path'** column, select the service you're interested in.

Cor	figuratior	n List													
Ç	Search	Analyze	+ New	🐯 Edit List	🗓 Delete	폟 Subscr	ibe 🔀 l	Jnsubscribe Renew	More	options				Ŕ	7 ≣
	Webhook	Path		Webhook Na	me		Order 1	URL End Point		Client State	Group	Expiration Date	Sub	Aut Ren	Subscrip
\rightarrow	item		\sim				0								
		Path Name 1													
		v1.0/itemVariants					1								
		v2.0/itemCategori	es												
		v2.0/itemLedgerEr	ntries												
		v2.0/items													
		v2.0/itemVariants													
4				Sh	ow details	Select from	n full list								F

The 'Webhook Name' field is auto-filled and cannot be edited.

Order: This allows us to organize configured webhooks according to our preferences; it has no additional function.

'URL End Point': This field is crucial as it represents the destination for both validating the subscription (a one-time check to ensure the destination is correct and ready to receive notifications) and for sending the actual notifications. For our **OEWebhookReceiver** function, copy the link to your Azure function here. You may remove the final question mark if it appears when pasting into the column.

'Client State': This is a special field used by developers of the Azure or external function. For our function, it doesn't need to be filled. It's important when external app developers request it, as they likely use this field for their own specific purposes.

Group: In this column, enter the template group you want to execute when a notification is received from the service.

Configuration List										`	∕ Saved		7 ^K	
🔎 Search 💽 Analyze	+ New	🐯 Edit List	前 Delete	🐻 Subscrit	pe 🖹 U	Insubscribe 🏙 Renew	More options					¢ 7	≣	
Webhook Path		Webhook Na	ame		Order 1	URL End Point	Client State	Group	Expiration Date	Sub	Aut Ren	Subscription lo	0	
\rightarrow v2.0/items	÷.	items			0	https://nomadawar		~						
								Code 1	De	scription				
								JOB-ITEN	/IS Gr	oup of a	tions to i	run when trigg	er	
								63						
								+ New			S	how details	Select	from full list

That's all we need to subscribe to the service. Just note that the 'Auto Renew' field can be checked if we want the service's expiration date to renew every three days (this requires the renewal Job to be in a **Ready** state).

Job	Queue Entries			Д
2	Search	Analyze 🕂 New 🐺 Edit List	📋 Delete 🖉 Edit 💿 View	<i>É</i>
	Status	User ID	Object Type Object ID to to Run Run	Object Caption to Run
	On Hold	TOLO.SASTRE	Codeunit	NOW Entity Programmed (Job)
\rightarrow	Ready :	TOLO.SASTRE	Codeunit	NOW AutoRenew Webhooks
	blot	TOLO.SASTRE	Codeunit	NOW Delete-Clear Entities
	On Hold	TOLO.SASTRE	Codeunit	NOW Export Replication (Job)
	On Hold	TOLO.SASTRE	Codeunit	NOW Template Group (Job)

The remaining fields are informational:

- **Expiration Date:** The date when the service will stop functioning.
- Subscribed: If the subscription was successful, this field will be checked.
- Subscription Id and OData Etag: Internal subscription data. These also appear in the lower section and should match.

Click on the **Subscribe** action, and if everything went correctly, the following information will appear on the page.

Configurat	ion List												√ Saved	
imes The	action was executed correctly!													~
	.h 💽 Analyze + New	🐯 Edit	t List 🏾 🔟 Delete 🛛	🖁 Subscribe 🛛 🛣 Uns	ubscribe	Renew More optic	ons							& 7 ≣
Webh	iook Path		Webhook Name		Order ↑	URL End Point	Client State	Group	Expiration Date	Subsc	Auto Renew	Subscription Id	OData Etag	
\rightarrow v2.0/	îtems	1	items		0	https://nomadaware.		JOB-ITEMS	06/01/2024 19:19	~	✓	a9101bbf6be14	W/"JzIwOzEwMzQ3	MjQ3MzY2OTQx
Webho	oks Subscribed to BC	I [#] New Li	ine 🛛 🗮 Delete Line	🚯 Get Subscribed										Ŕ
Subsci	iption Id ↑	ETag		Notification Url		Resource	Clie	ent State	Expiration Date Tin	ne	La	ast Modified Date Time	User Id	
$\rightarrow a910$	1bbf6be14bf890bac0a8b8													

We can see that the webhook automatically appears in the lower section, indicating that we are now subscribed to the service and it is active. Now, whenever we interact with the products (items), a notification will be received in the **Receptions** section, and if we have a configured group, it will execute.

We can set up as many available webhook subscriptions as desired.

Unsubscribe

This action removes the current subscription, meaning it will no longer "listen" to the table affected by the webhook service, and you will no longer receive change notifications for it.

Renew

Manually renews the subscription; if successful, you'll see that the expiration date has been updated.

RECEPTIONS

When a user makes a change to one of the subscribed Business Central tables, the action is sent to the Azure function, which returns it to our Business Central. You can view the messages returned from the Azure function in **Receptions**.

Access **Receptions** through either **Actions** or the **Control Panel Cue** to see a list of notifications received by our Azure function (originating from our Business Central). For example, you might see several product modifications, the creation of two new products, and the deletion of one.

Receptions: All \checkmark \bigcirc Search	:h 💽 A	Analyze 🗎 Delete	Show Data WebHook	🕞 Run 🛭 😂 Refresh	More options			
Entry ↑	ld	d			Data	Date	Time	Processed
1	: (3	32b1b1d2-269c-4413	-bb29-b6d6db2897b2}			03/01/2024	18:42:48	
2	6	7e4f984c-e0ad-4e11-l	08a6-481ec6020633}			03/01/2024	18:43:30	

With the **'Show Data WebHook'** action, we can examine the webhook's internal data.

OE Card Viewer	2 X
۹	L ²
😞 Tag	Value
:	Ê.
subscriptionId	d5203f3f1aa44afe97d3d6b8a6111a06
expirationDateTime	2024-06-03T22:00:10Z
resource	https://api.businesscentral.dynamics.com/v2.0/i
changeType	created
lastModifiedDateTime	2024-06-01T16:52:57.58Z
subscriptionId	d5203f3f1aa44afe97d3d6b8a6111a06
expirationDateTime	2024-06-03T22:00:10Z
resource	https://api.businesscentral.dynamics.com/v2.0/i
changeType	updated
lastModifiedDateTime	2024-06-01T16:52:57.797Z
subscriptionId	d5203f3f1aa44afe97d3d6b8a6111a06
expirationDateTime	2024-06-03T22:00:10Z
resource	https://api.businesscentral.dynamics.com/v2.0/f
changeType	created
lastModifiedDateTime	2024-06-01T16:52:57.877Z
subscriptionId	d5203f3f1aa44afe97d3d6b8a6111a06
	Close

If the configured group (e.g., **JOB-ITEMS** in this example) executed successfully, we should see something similar in the **Outbox**:

Outbound Folder:	All∽ ⊅ s	Search 💽	Analyze	e + New	Û I	Delete 🛛 🔒 Save	e to File 🗎 Delete	e All 🛛	Clear O	ut All	🔳 Card	🖪 Grid	🔠 Arc	hive [🕻 Manua	l Export	😂 Refi	resh …	E	2	≣ ∠	
Template Source EXPORTITEMS	Template Target EXPORTITEMS	Date 04/01/2024	Time 9:19:46	Perspective Source	Te So S/	nant Code ource ANDBOXDEV3	Tenant Code Target SANDBOXDEV	Use- Make Equi	Table Trig	Run	Pro	Suc 3	Errors 0	Read 0	Inse 0	Mo 3	Del 0	Track {243eff56-	ac0d-4e09-	b3fb-102	Is Res	
EXPORTITEMS	EXPORTITEMS	04/01/2024	9:19:15	Source	SA	ANDBOXDEV3	SANDBOXDEV			~	V	3	0	0	2	1	0	{5ad7c1ff-	edf9-4fc9-8	ab4-3cc4	🗆	
EXPORTITEMS	EXPORTITEMS	04/01/2024	9:17:37	Target	SA	ANDBOXDEV3	SANDBOXDEV2			~	7	9	0	0	8	1	0	{034ea472	-4989-4635	-9b07-4	. 🗆	
EXPORTITEMS	EXPORTITEMS	04/01/2024	9:19:10	Target	SA	ANDBOXDEV3	SANDBOXDEV2			~		9	0	0	8	1	0	{8c4a0bd3	-6cfc-43a7-	90e9-6a.	. 🗆	
EXPORTITEMS	EXPORTITEMS	04/01/2024	9:17:44	Source	SA	ANDBOXDEV3	SANDBOXDEV			~	V	8	0	0	0	8	0	{23a8905a	-7b9e-4a44	-8a69-94	🗆	
EXPORTITEMS	EXPORTITEMS	04/01/2024	9:19:14	Target	SA	ANDBOXDEV3	SANDBOXDEV2			~	V	6	0	0	5	1	0	{6f79ab04-	13f1-4688-	9a0d-94.	. 🗆	
EXPORTITEMS	EXPORTITEMS	04/01/2024	9:19:12	Source	SA	ANDBOXDEV3	SANDBOXDEV					8	0	0	0	8	0	{26ba5ac3	-e126-451d	l-8917-d5	🗆	
EXPORTITEMS	EXPORTITEMS	04/01/2024	9:19:45	Target	SA	ANDBOXDEV3	SANDBOXDEV2			~	1	6	0	0	5	1	0	{015b01ff-	4fc8-4348-	a978-f00.	. 🗆	-
•																						×
Log∨	g∨																					
Record ID						Action	Success		Error Code	e						Error Desc	ription					
Item: 1896-S					÷	Modify	×		0													_
Item Variant: 1896	S-S, METALLIC					Modify	1															
Item Variant: 1896	S-S,WOOD					Modify	1															
Item Reference: 18	896-S,"",UDS,Custo	omer,10000,RE	FIT-0001			Modify	1															
Item Reference: 18	896-S,"",UDS,Vend	lor,10000,REFIT	-0001			Modify	×															
Item Reference: 18	896-S,"",UDS,Vend	lor,30000,456				Modify	×															
Item Unit of Meas	ure: 1896-S,UDS					Modify	1															
NOW Log Operati	ions: {26BA5AC3-E	126-451D-891	7-D56B62	26C0D7	÷	Modify																

The 'Track' field in the inbox and outbox allows us to identify or link an action initiated at the source with its reception and processing at the destination.

And in the corresponding **Inbox**, you can see its reception, confirming that the action was received and is ready for further processing or review.

Inbound Folder:	All 🗸 🕴 🔎 Searc	ch 💽	Analyze +	New 🗎 Delete	🔒 Save to File	🗓 Delete /	Ali 🔀	Clear Out	t All 🔳	Card	🖪 Grid 🛛	🕻 Manual	l Import	Archive	😂 Refresl	h	\$ \$	≡ 2	7 []
Template Source	Template Target	Date ↓	Time	Tenant Code Source	Tenant Code Target	Use- Make Equi	Table Trig	Run	Pro	Suc	Errors	Read	Inse	Мо	Deleted	Track		ls Re	·S
EXPORTITEMS	EXPORTITEMS	1/4/2024	9:19:11 AM	SANDBOXDEV3	SANDBOXDEV					7	0	0	0	7	0	{26ba5ac3	-e126-451d-8917	-d5 🗆	^
EXPORTITEMS	EXPORTITEMS	1/4/2024	9:17:40 AM	SANDBOXDEV3	SANDBOXDEV				V	7	0	0	0	7	0	{23a8905a	-7b9e-4a44-8a69	-94 🗆	
EXPORTITEMS	EXPORTITEMS	1/4/2024	9:19:14 AM	SANDBOXDEV3	SANDBOXDEV					2	0	0	2	0	0	{5ad7c1ff-	edf9-4fc9-8ab4-3	cc4 🗆	
EXPORTITEMS	EXPORTITEMS	1/4/2024	9:19:46 AM	SANDBOXDEV3	SANDBOXDEV					2	0	0	0	2	0	{243eff56-	ac0d-4e09-b3fb-1	02 🗆	
EXPORTITEMS	EXPORTITEMS	1/3/2024	6:43:32 PM	SANDBOXDEV3	SANDBOXDEV					0	0	0	0	0	0	{318e4467	-f626-4aa6-9120-	93 🗆	
EXPORTITEMS	EXPORTITEMS	1/3/2024	6:43:06 PM	SANDBOXDEV3	SANDBOXDEV			V		2	0	0	2	0	0	{85003297	-d0be-4768-be90	-8 🗆	
EXPORTITEMS	EXPORTITEMS	1/3/2024	6:42:59 PM	SANDBOXDEV3	SANDBOXDEV			V		7	0	0	1	6	0	{bb673091	-853e-4d85-8d1c	-1 🗆	
EXPORTITEMS	:	12/31/2	8:10:45 PM	MY TENANT	saydboxdev					0	0	0	0	0	0	{60ea7828	-1188-4c47-9abc	eb 🗌	
Log∨																			
Record ID										Action	n	Success	Error	Code		Error Desc	ription		
ltem: 1896-S										Mod	ify	~							
Item Variant: 18	96-S,METALLIC									Mod	ify	~							
Item Variant: 18	96-S,WOOD									Mod	ify	~							
Item Reference:	1896-S,"",UDS,Custom	ner,10000,RE	FIT-0001							Mod	ify	1							
Item Reference:	1896-S,"",UDS,Vendor	,10000,REFI	T-0001							Mod	ify	1							
Item Reference:	1896-S,"",UDS,Vendor	,30000,456								Mod	ify	~							
Item Unit of Mea	asure: 1896-S,UDS									Mod	ify	~							

The data sent consists of the records that have undergone changes (insertion, modification), regardless of any fixed filters in the base template. When a template triggered by a webhook is processed, only the affected records are processed.

The **Delete** action will only have an effect if the **Custom Template** within the group has the **'Use-Create Equivalences'** field enabled and if there is an existing equivalence between the deleted record at the source and a corresponding record at the destination.

IMPORTANT: the target template must grant deletion permission for the user created in the App installation and who will use the webhook (OE MANAGEMENT for example) and the check control 'Allow deletion (from external apps)' must be checked.

RECOMMENDATION: it is not recommended to abuse the webhooks to perform operations from Business Central to Business Central especially with some webhooks that involve detail lines (such as an invoice) both for the posible excessive consumption of resources and for some limitations intrinsic to the very nature of the operations (for example if you modify an invoice line and register the invoice immediately almost certainly the last modifications will not be transferred to a destination if so programmed).

For more detailed information, we recommend the video -> https://youtu.be/VGfOKFDxUZ0?si=8Tv5NXADChMsho_c