



**Release Notes**  
**for**  
**Multi Entity Management**  
**2023**

**Microsoft Dynamics**  
**Business Central**

**SaaS: 20 – 22**

**On-premises: 14 - 22**



## MEM 5.11.0

### Multi-environment: Field-mapping.

When replicating in a multi-environment setup, it is now possible to map a value from one field to another field in the same table.

The setup below will replicate the value from field “17”-“Unit Price” to the subscriber field “31”-“Direct Unit Cost”. The field “31”-“Direct Unit Cost” is by-passed in the replication.

From Field No. ↑	From Field Name	To Field No.	To Field Name	No Mapping	Use Default Value	Adjust Value	Default Value	Field Mapping
15	Unit of Measure Code	15	Unit of Measure Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0
16	Amount Type	16	Amount Type	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0
17	Unit Price	17	Unit Price	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		31
18	Cost Factor	18	Cost Factor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0
30	Status	30	Status	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0
31	Direct Unit Cost	31	Direct Unit Cost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0
32	Source Group	32	Source Group	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21	0
33	Product No.	33	Product No.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0

### Multi-environment: No Mapping Error.

In the Multi-environment, subscriber replication setup page.

If “No Mapping” was marked on a field with datatype different from Code or Text and the User afterwards tried to unmark the field again, the error shown below will occur.

From Field No. ↑	From Field Name	To Field No.	To Field Name	No Mapping	Use Default Value	Adjust Value	Default Value
25	Registration Number	25	Registration Number	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26	Statistics Group	26	Statistics Group	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
27	Payment Terms Code	27	Payment Terms Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28	Fin. Charge Terms Code	28	Fin. Charge Terms Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
29	Purchaser Code	29	Purchaser Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
30	Shipment Method Code	30	Shipment Method Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31	Shipping Agent Code	31	Shipping Agent Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
33	Invoice Disc. Code	33	Invoice Disc. Code	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Validation Results**  
 The Publisher field length exceed the length of the subscriber field. This will result in overflow error on the subscriber. Enable "No Mapping" to skip this field, or "Adjust Value" to crop values so they fit the subscriber.

This is fixed.

(ID: 40850)

### Multi-environment: Not possible to delete Custom Records.

With custom records activated in a multi-environment setup, it is not possible to delete records created as custom records in the subscriber.

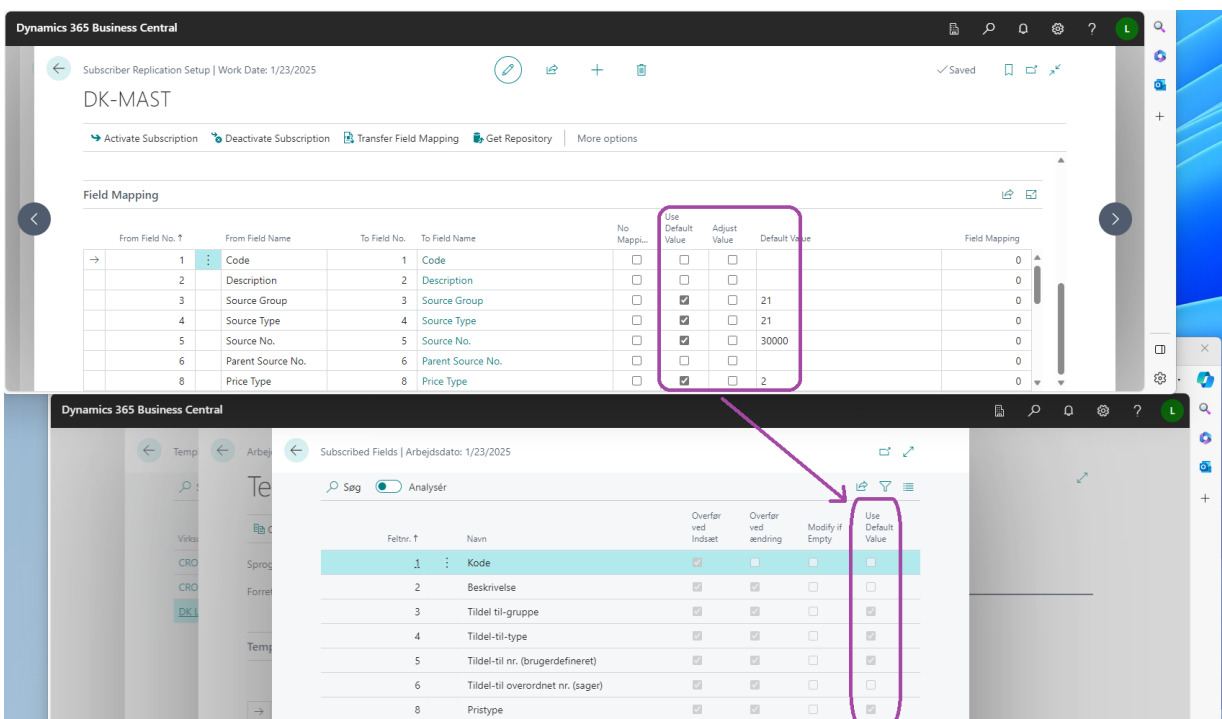
- ✘ The page has an error. [Refresh \(F5\)](#) to undo the change, or correct the error.
- ✘ Table Vendor is subscribed from a publisher company. Delete is not allowed.

This is fixed.

(ID: 40822)

## Multi-environment: “Use Default Value” is shown in the subscriber.

It is now possible for the Subscriber to see if the External Publisher are using a Default Value for a field.



## Multi-environment: Options/Enum fields with value in position 0.

When replication data in a multi-environment setup, option/enum values was bypassed, if position 0 had other values than 0 or '' (blank).

This is fixed.

## MEM 5.7.0 / 5.7.1

### Replication of associated tables.

A bug was found when running replication with associated tables without full subscription. All records in the associated tables were replicated like if a full subscribe would have been activated.

The behavior is fixed so only records from the associated table with an actual relation to the primary table are replicated.

(ID: 39041)

### Full Table Sync.

For cross database replication that needs to be aligned, the function Full Table Sync on the Subscriber Replication Setup card might be useful. The function is adjusted so it respects the Field Mapping. If some fields are marked as No Mapping, they won't be taken into consideration when running the full table sync.

(ID: 39054)

### Full Table Sync - Filter option.

When performing a Full Table Synchronization on large datasets, it is possible to exceed the limit of max items in object graph, where the maximum number of objects to serialize or deserialize is 10.000. A filter option is introduced to handle these cases.

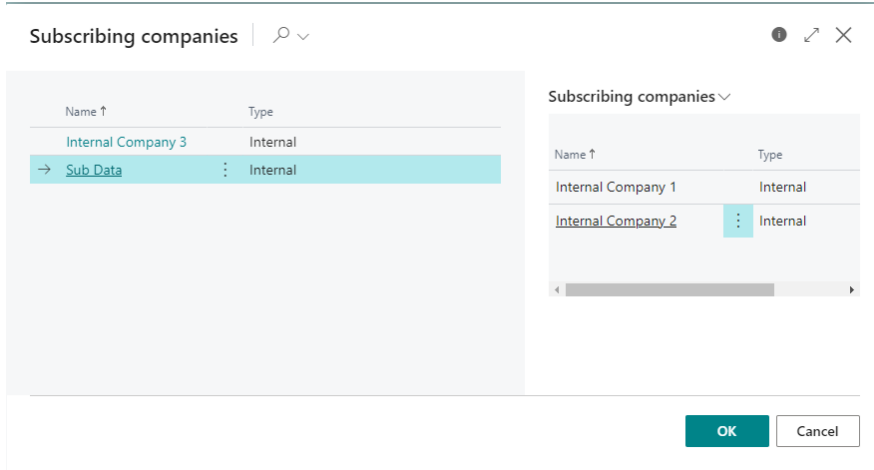
[Operation Limits in Dynamics 365 Business Central - Business Central | Microsoft Learn](#)

(ID: 39054)

## MEM 5.5.0

### Push transfer to Sub-template.



When a manual Push-transfer is done to a Sub-template company, the Sub-template subscriber companies is shown on a fact box.






(ID: 37855)

### “Modify if empty” in Individual Setup for Def. Dimensions.

The field setup at the “Individual Setup for Def. Dimensions” now support the “Modify if empty” functionality.

Def. Dimension Template Fields ✓ Saved  

Search + New Edit List Delete   

Dimension Code ↑	Field No. ↑	Name	Transfer at Insert	Transfer at Modify	Modify if Empty
BUSINESSGROUP	1	Table ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BUSINESSGROUP	2	No.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BUSINESSGROUP	3	Dimension Code	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
→ BUSINESSGROUP	4	Dimension Value Code	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BUSINESSGROUP	5	Value Posting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BUSINESSGROUP	7	Multi Selection Action	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BUSINESSGROUP	8	Parent Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BUSINESSGROUP	10	Allowed Values Filter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

(ID: 37853)

## MEM 5.4.0

### **Associated BOM's tables in Cross Database replication.**

An issue causing missing field data when Default Dimension was set to be associated to a table, is solved.

(ID: 36498)

## MEM 5.3.0

### **Consolidation to multiple Reporting Companies.**

When Consolidate reporting data from 1 company to multiple Reporting companies, data was transferred incorrectly when adding an additional Reporting Company.

This issue is corrected.

(ID: 36902)

### **Deleting a Reporting Company.**

When deleting a Reporting Company, the OnDelete trigger must check if there are an Active Consolidating running before deleting the Company, otherwise it is not possible to delete the consolidating lines.

This issue is corrected.

(ID: 36903)

### **Consolidation Confirm Box.**

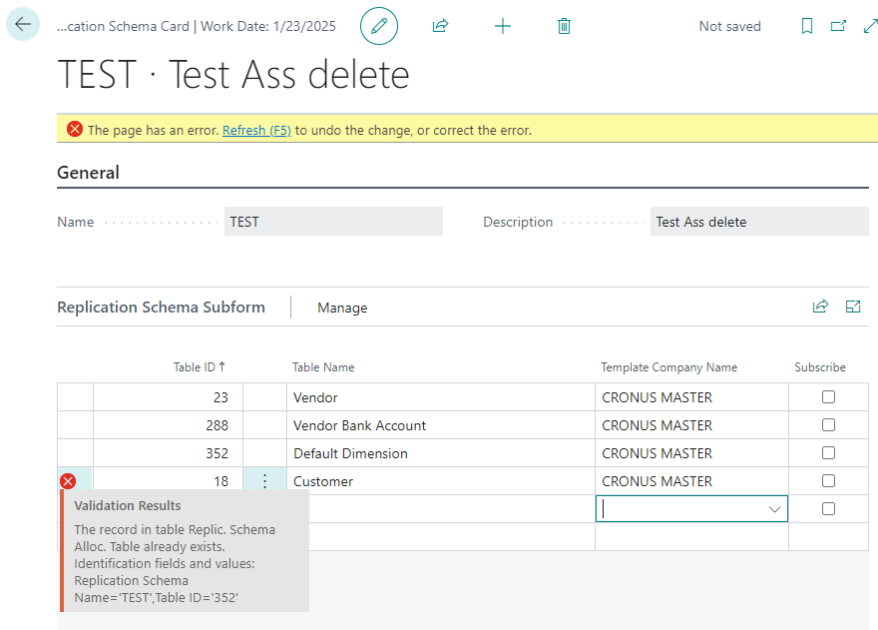
The behavior of the Confirm boxes when enabling Reporting Company and Consolidation is optimized.

(ID: 36904)

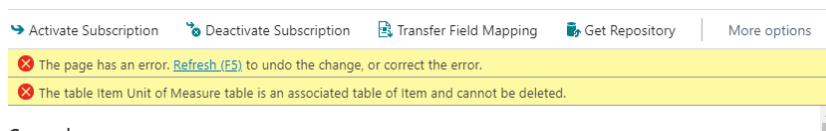
### **Table associated with more tables.**

In the Replication Schema, It was not possible to Insert two tables with the same associated table.

If table 18 Customer was inserted with the associated table 352 Default Dimension and afterward inserts table 23 Vendor also with table 352 Default Dimension, an error was thrown.



In the Subscriber Replication Setup, the associated table was not deleted and will throw an error when trying to delete the remaining table.



Both issues are corrected.

(ID: 36877)

## Cross Database replication with Custom Rec.

When doing Cross Database replicating with tables with more than one field in the Primary Key, it was not possible to use the Custom Rec functionality.

This issue is corrected.

(ID: 36387)

## Optimized replication performance.

An optimized use of the SELECTLATESTVERSION have resulted in better replication performance.

(ID: 36878)



## Default Subscriber value changed to FALSE.

When inserting a new Subscriber table in the “Dependent on” section on the “Template Setup Card”, the subscriber value now is FALSE as default.

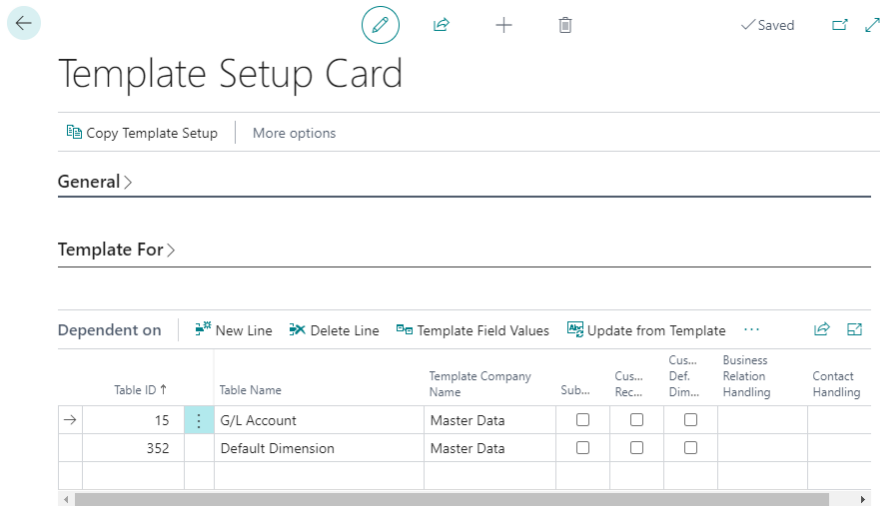
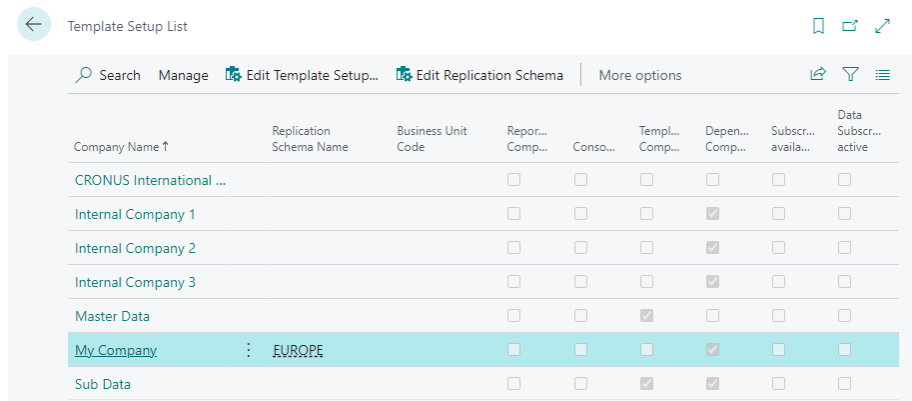


Table ID ↑	Table Name	Template Company Name	Sub...	Cus... Rec...	Cus... Def... Dim...	Business Relation Handling	Contact Handling
→ 15	G/L Account	Master Data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
352	Default Dimension	Master Data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

(ID: 36872)

## Link to Replication Setup.

The “Edit Replication Schema” will now open the Replication Schema at the marked line.



Company Name ↑	Replication Schema Name	Business Unit Code	Repor... Comp...	Conso...	Templ... Comp...	Depen... Comp...	Subscr... availa...	Data Subscr... active
CRONUS International ...			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal Company 1			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal Company 2			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Internal Company 3			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Master Data			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My Company	EUROPE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sub Data			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(ID: 36881)

## MEM 5.2.0

### Subscriber Replication Setup – Associated Tables.

If Two tables used the same Table as associated table, it was not possible to use both in the Subscriber Replication setup – This is now corrected.

Table No. ↑	Table Name	Template Company Name ↑	Subsc...	Custom Records	Mappi... incom...
15	G/L Account	MASTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
→ 18	Customer	MASTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
352	Default Dimension	MASTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(ID: 36662)

### Language correction for “Disable list Modified Fields”.

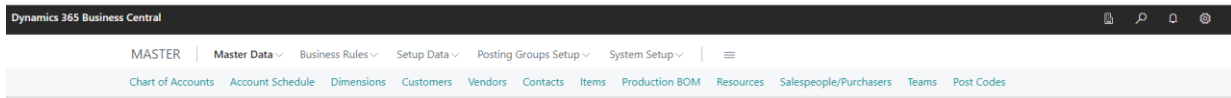
The function “Disable list Modified Fields” in Template Table Fields, are now working with all languages

Field No. ↑	Name	Transfer at Insert	Transfer at Modify	Modify if Empty	Field Status
→ 1	No.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	No. 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	Description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

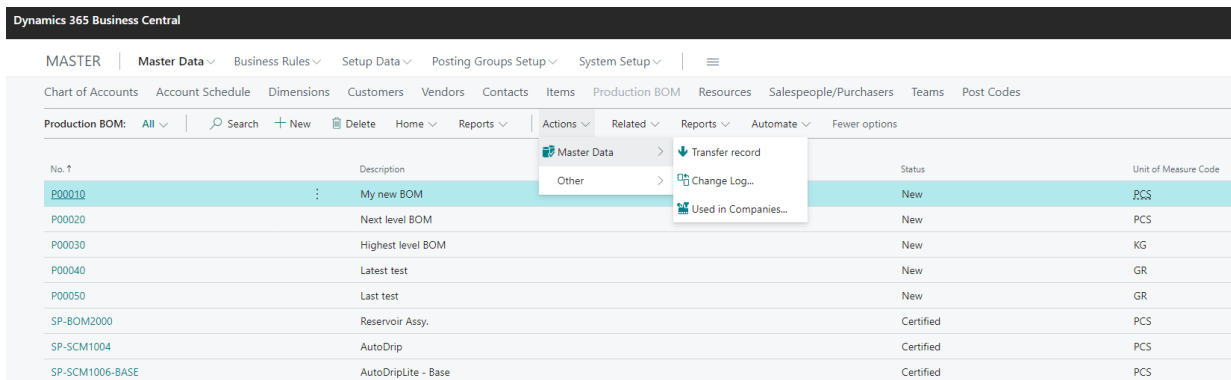
(ID: 36662)

## Correct link to Productions BOM list.

The menu "Production BOM" now use the correct page



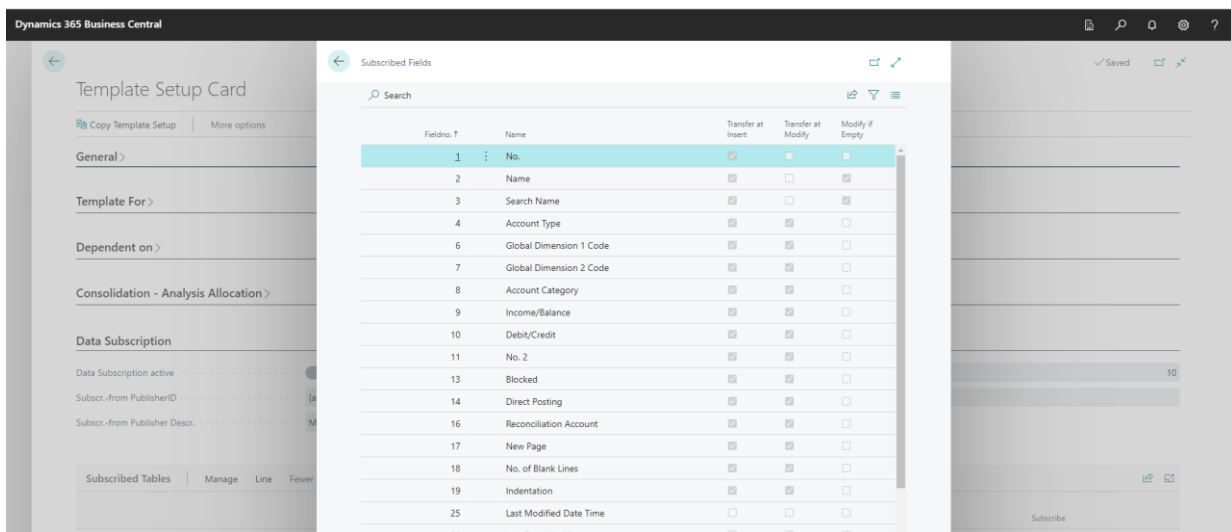
## The Production BOM list



(ID: 36662)

## "Modify if Empty" are now shown in Cross Database Subscriber

In the Cross Database Environment (Database), the "Modify if Empty" option is now shown in the Data Subscription section for the Subscriber company.



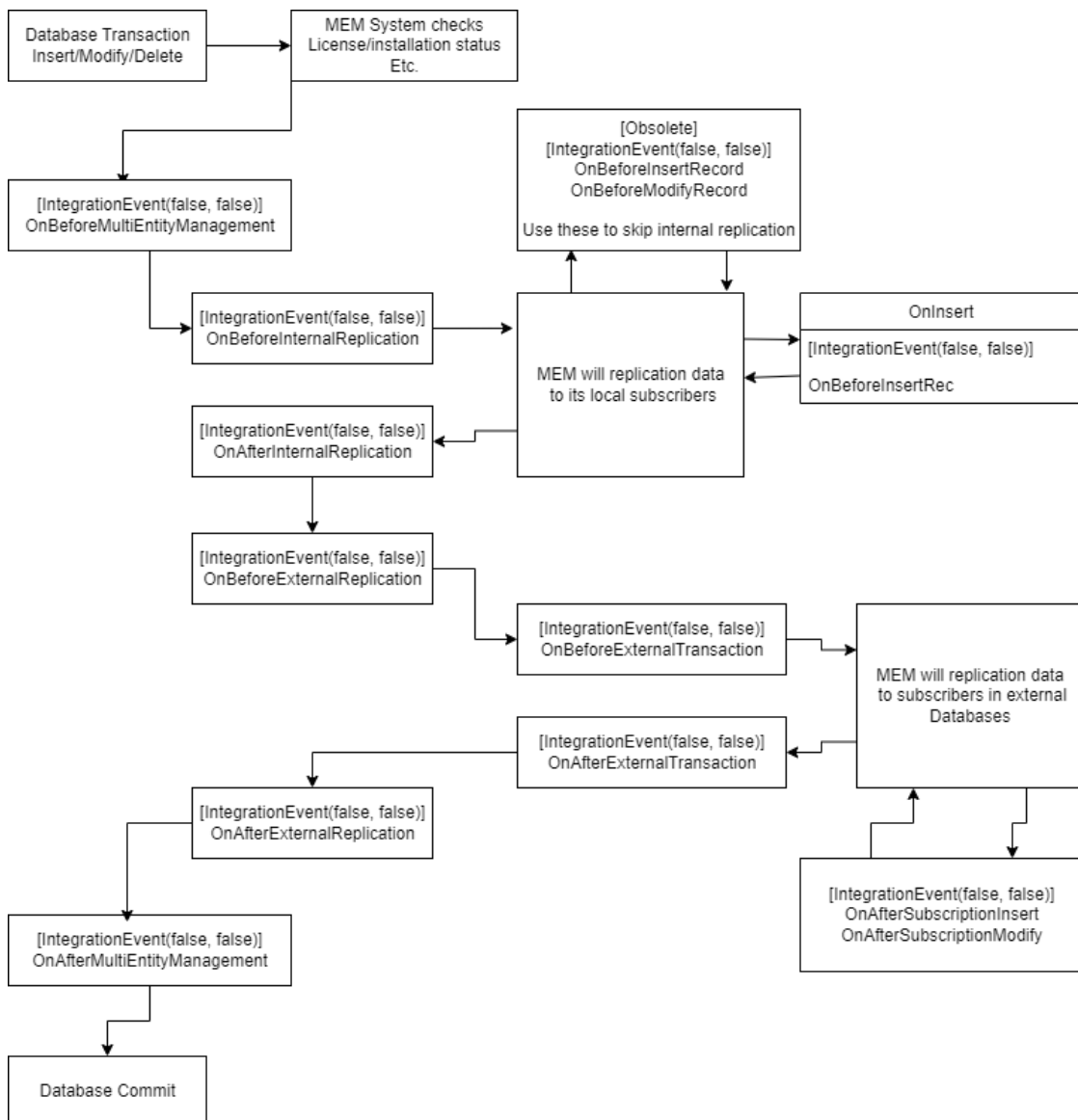
(ID: 36662)

## MEM 5.1.0

### New event publisher OnBeforeInsertRec.

OnBeforeInsertRec(var RecordRef: RecordRef; ReplicationAllocation: Record XMEMMReplicationAllocation; var BigText: FromCompany: Text; var IsHandled: Boolean)

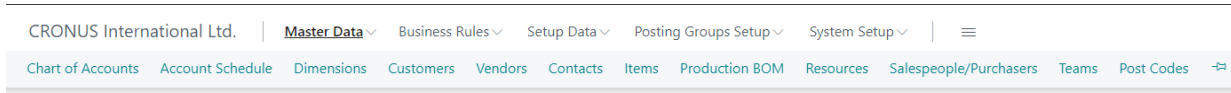
- This event is similar to OnBeforeInternalReplication, but instead of being called before MEM performs any transaction, this event is triggered when MEM starts to insert a record.
- Use this event to allow check of the record and skip if necessary. There should be no interactions because the record may not be inserted.



(ID: 35732)

## Menu changes in Master Data Manager Rolecenter.

The **Master Data** menu have been changes. The placement of the Tables has been rearranged and access to **Production BOM** is enabled

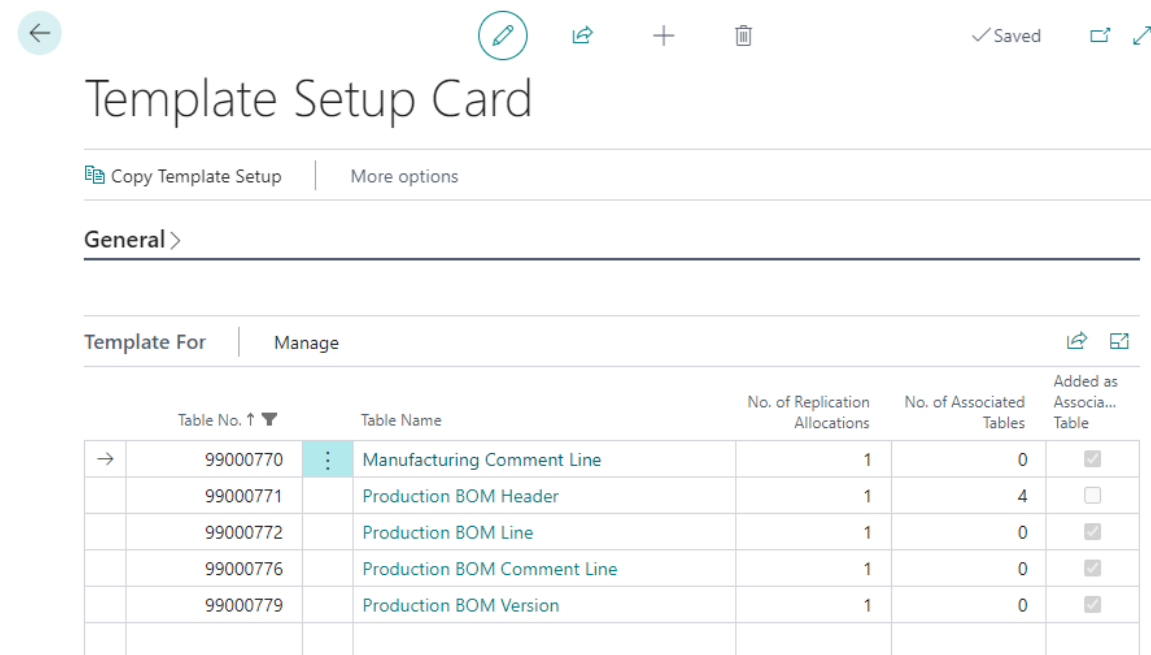


(ID: 36498)

## Replication of Productions BOM, do not work.

It is now possible to replicate Production BOM (Table 99000771)

With attached tables



Template Setup Card

Copy Template Setup | More options

General >

Template For | Manage

Table No. ↑ ▼	Table Name	No. of Replication Allocations	No. of Associated Tables	Added as Associa... Table
→ 99000770	Manufacturing Comment Line	1	0	<input checked="" type="checkbox"/>
99000771	Production BOM Header	1	4	<input type="checkbox"/>
99000772	Production BOM Line	1	0	<input checked="" type="checkbox"/>
99000776	Production BOM Comment Line	1	0	<input checked="" type="checkbox"/>
99000779	Production BOM Version	1	0	<input checked="" type="checkbox"/>

(ID: 36498)

## Cross Database replication error

The Cross Database replication has issues to determinate if a field is inserted or modified when the receiving field is blank.

To handle this a New Checkbox “Modify if Empty” is added to the Field Subscription list.

Dynamics 365 Business Central

← Template Table Fields

Search Edit List Disable list Modified Fields Actions Automate Fewer options

	Field No. ↑	Name	Transfer at Insert	Transfer at Modify	Modify if Empty	Field Status
→	1	No.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	2	Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	3	Search Name	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	4	Account Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	6	Global Dimension 1 Code	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

If this field is “Checked” then the publisher still send data, and the subscriber will allow the value to be modified(inserted) if the related field is empty.

In case of replicating data fra “Template Company” to a “Sub-Template Company”. If the “Sub-Template Company” field has a value but the “Sub-template Subscriber Company” field is blank, then the field value in the subscriber will NOT be modified.

In the reverse case will the “Sub-Template Company” field be modified, but the “Sub-template Subscriber Company” field will not be changed.

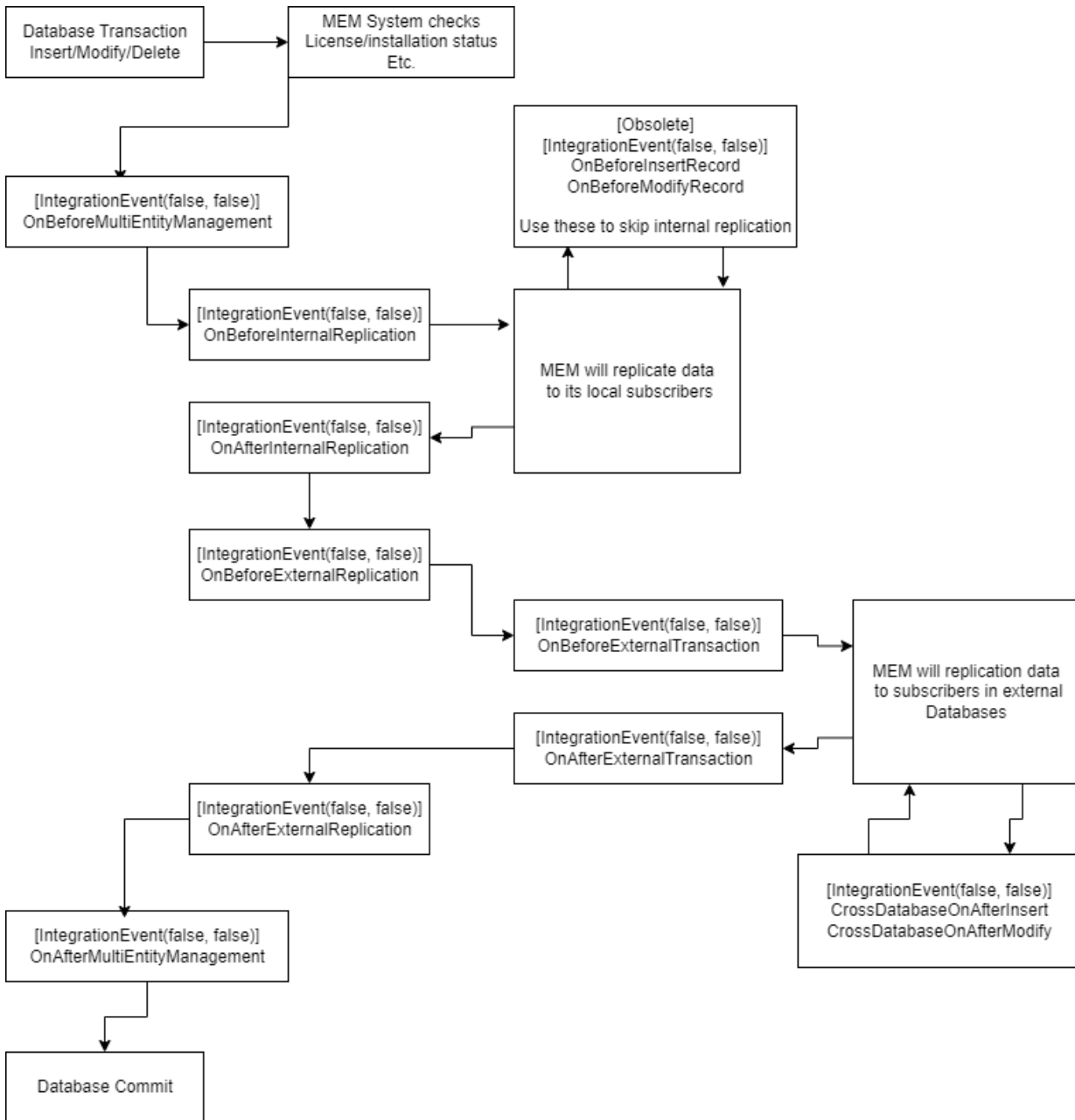
(ID: 36386)

## MEM 5.0.1

### New Event Publishers added.

The following Event Publishers are added to Multi Entity Management. Read more about the Event Publishers for Multi Entity Management in the document “FAQ – MEM Event Publishers”

- procedure **OnBeforeMultiEntityManagement**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction; var IsHandled: Boolean)
- procedure **OnAfterMultiEntityManagement**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction)
- procedure **OnBeforeInternalReplication**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction; FromCompanyName: Text; var IsHandled: Boolean)
- procedure **OnAfterInternalReplication**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction; FromCompanyName: Text)
- procedure **OnBeforeExternalReplication**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction; FromCompanyName: Text; var IsHandled: Boolean)
- procedure **OnAfterExternalReplication**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction; FromCompanyName: Text)
- procedure **OnBeforeExternalTransaction**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction; var BigText: BigText; SubscriberCompany: Record "XMEMEMSubscriber Company"; var IsHandled: Boolean)
- procedure **OnAfterExternalTransaction**  
(var RecordRef: RecordRef; Transaction: Enum XMEMEMTransaction; var BigText: BigText; SubscriberCompany: Record "XMEMEMSubscriber Company")



(ID: 35732)

## Generate New Repository ID for subscriber.

Secanrio:

In a Cross Database setup are the Publisher Company is bound to the Cross Database Subscriber Company.

If there are made a copy of the bound Cross Database Subscriber Company to a Company copy in the Cross database.



It is not possible to bind the Company Copy as a Cross Database Subscriber Company, because the Repository ID from the original Cross Database Subscriber Company is in the Company Copy.

The **Recreate Entry** function in Cross Database Setup, will delete the Repository ID.

The Admin Tools – **Force Clear Subscription** will now remove the Checkmark in “Data Subscription Active”

Company Name ↑	Replication Schema Name	Business Unit Code	Repor... Comp...	Conso...	Templ... Comp...	Depen... Comp...	Subscr... availa...	Data Subscr... active
1 CDB Internal Subscri...			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 CDB Internal Subscri...			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CDB Subscriber Master			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CDB2 Subscriber Master			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CRONUS International ...			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My Company			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(ID: 35928)

MEM 5.0.0

## Cross Database Replication of Datatype "GUID".

It is now possible to do Cross Database replication with fields with the datatype "GUID"

(ID: 35909)

## MEM 4.6.6

### **Cross Database Replication of Datatype Record-Id.**

It is now possible to do Cross Database replication with fields with the data type Record-Id

(ID: 35733)