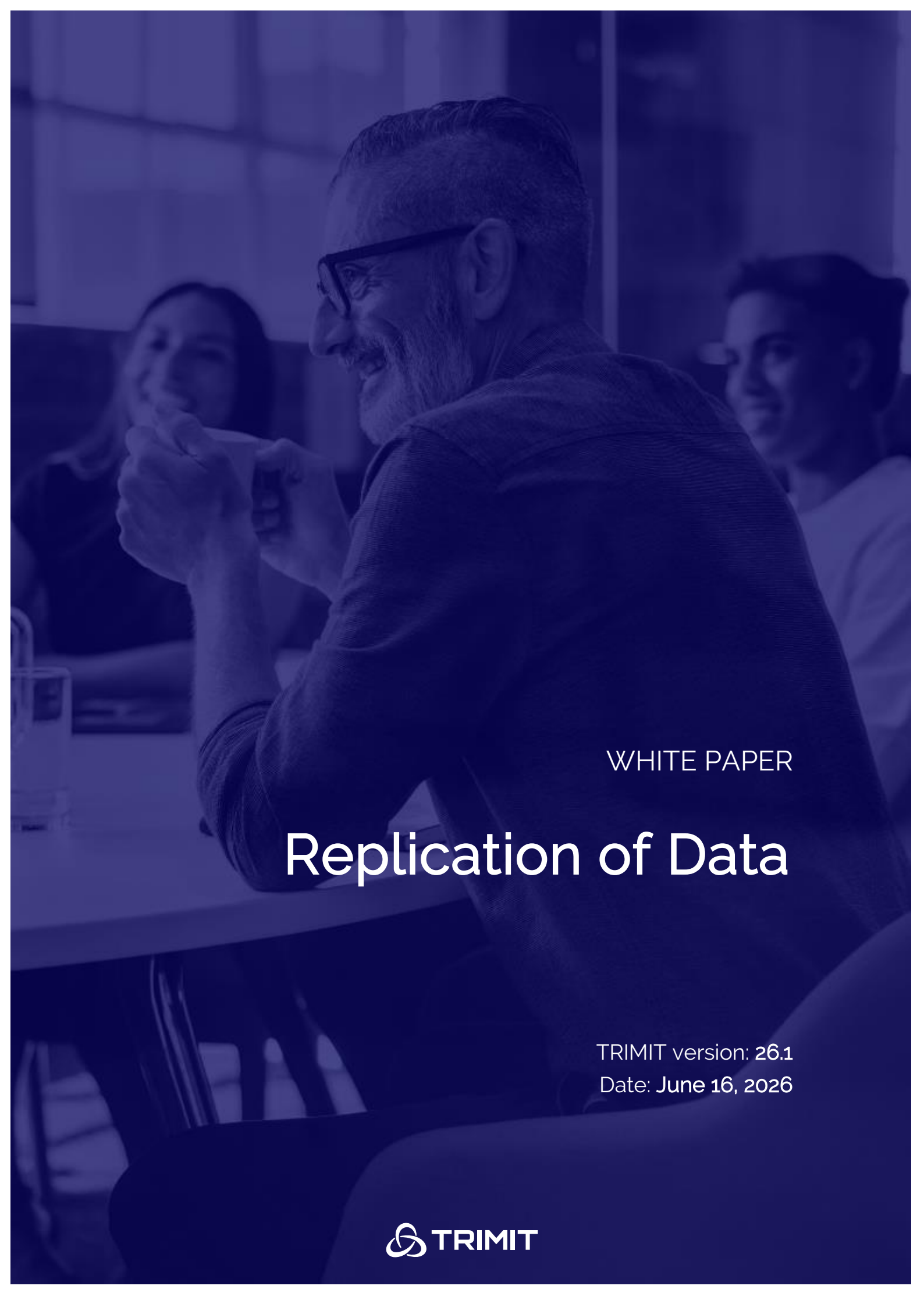




WHITE PAPER

Replication of Data

TRIMIT version: 26.1

Date: June 16, 2026

Table of Contents

Replication of Data	1
Introduction	3
Components	4
Setup Replication Publisher	5
Description of the Fields	5
Set up Tables/Fields to Replicate	7
Description of the Fields of the Lines	7
Skip Insert Log (Insert by Event)	11
Number of Records	11
Actions, Create Replication Setup from Template	11
Setup Replication Subscriber	14
Description of the Fields	14
Related	15
Process of Replicating data	20
Actions	20
Connection Code	22
External Connection for Publishing On-Premise Database/Company	22
Extra Instance for your on-premise Database	22
Web Service in Publisher Database/Company	23
Connection Code in Subscriber Database/Company	24
External Connection for Publishing Cloud Database/Company	26
Azure Active Directory Application	26
Connection Code in Subscriber Database/Company	26
Replication Log	29
Job Queue	30
Customization	31
Business Event Publisher Functions	31

Introduction

When working with different companies (and perhaps different databases), it might be necessary to copy information from one company to another company.

Especially in an Intercompany setup, where one company is leading (this is the company where the design, purchase and production take place) and the other companies are only sales companies, the information of the Head Office needs to be copied to the Sales Offices.

Or you could think of the information that you want to copy from a Live database to a Test database.

For this purpose, we have created the **Replication** functionality: to be able to copy Table content between companies in the same database without special validations (as is the case when using Configuration Packages), but also to copy Table content between databases.

The **Replication** functionality is also able to copy/update only the changed data since last Replication run (which is also not possible when using the Configuration Packages).

It will also be possible to schedule the execution of the Replication by using a Job Queue.

The company from which data will be copied is called **Publisher Company** (i.e., the Head Office in an Intercompany structure).

The company to which data will be copied is called the **Subscriber Company** (i.e., the Sales Offices in an Intercompany structure).

You can use the TRIMIT Replication tool for several types of Database Companies:

Scenario	Publisher Company	Subscriber Company
1	On-premise	On-premise
2	On-premise	Cloud
3	Cloud	Cloud
4	Cloud	On-premise

Scenario 4 does not work!!

Since it is the **on-premise** that has to ask a **Cloud** for the Data, there are issues with setting up OAuth (call-back) in the on-premise, which is the reason it will not work.

The audience for this document is the Consultant or very skilled User. It will only describe the TRIMIT fields/functionality and not the standard Business Central fields/functionality. Be aware of not changing settings and parameters in a live database without consulting the implementing partner.

The functionality described is the functionality as of **TRIMIT 26.1 for Business Central W1 BC28.X**.

The pictures in this White Paper are based on the demo data for **TRIMIT 26.1**, which is based on Microsoft Dynamics 365 Business Central 2026 Release Wave 1, in the demo company **CRONUS TRIMIT W1 Ltd.** (based on CRONUS International Ltd. of Microsoft Dynamics 365 Business Central).

Components

TRIMIT Replication of Data contains the following objects:

The tables

6036517	<i>trm Connection Setup</i>
6036534	<i>trm Replication Publish Header</i>
6036635	<i>trm Replication Publish Lines</i>
6036536	<i>trm Replication Publish Fields</i>
6036537	<i>trm Replication Subscriber</i>
6036538	<i>trm Replication Log</i>
6036539	<i>trm Replication Error Log</i>
6036540	<i>trm Repl Item Structure Param.</i>
6036541	<i>trm Repl AutoIncr Conversion</i>
6036542	<i>trm Replication Publish Filter</i>
6036543	<i>trm Replication Plan</i>
6036544	<i>trm Remote Repl Triggers</i>

The pages

6036535	<i>trm Replication Publisher List</i>
6036536	<i>trm Replication Publish Header</i>
6036537	<i>trm Replication Publish SubPag</i>
6036538	<i>trm Replication Publish Fields</i>
6036539	<i>trm Replication Subscriber</i>
6036540	<i>trm Replication Log</i>
6036541	<i>trm Replication Error Log</i>
6036542	<i>trm Replication Publish Lines</i>
6036543	<i>trm Repl Item Structure Param</i>
6036544	<i>trm Connection Setup Card</i>
6036545	<i>trm Connection Setup List</i>

The codeunits

6036532	<i>trm Replication Handling</i>
6036533	<i>trm Repl Log Handler SI</i>
6036534	<i>trm Repl Trigger Handler</i>
6036535	<i>trm Repl Item Structure Events</i>
6036536	<i>trm Communication Handler</i>
6036537	<i>trm Remote Repl Handling</i>
6036538	<i>trm Remote Replication Actions</i>

Setup Replication Publisher

The **Publisher Company** is the company from which data will be copied.

Therefore, the **Replication Publisher** needs to be created in the **Publisher Company** (Head Office) via **Search Replication Publisher**.

See [Actions, Create Replication Setup from Template](#) for automatically creating a **Code** specifically for replication Master/Item data.

Replication Publishers										✓ Saved				
		+ New	Edit List	Delete	Edit	View	Activate	Deactivate	Actions ▾	Automate ▾	Fewer options			
Code ↑	Description						Replication	Enable Remote Replication	Max. No. of Records to Replicate					
→ MASTER REPL	Replication of Masters and Items, and all relevant tables						Automatic	☐	0					

Description of the Fields

Code

A **Code** for this Replication Publisher.

You can create several codes for different purposes.

Description

A **Description** of this **Replication Code**.

Replication

With the content of the field **Replication**, you can determine how the copy should take place.

You can choose between the following three options:

Automatic	This means that the system will keep track of changes in the Publisher Company in the Replication Log , and only send changed Records to the Subscriber Company when required. This has a performance impact as there is a log of all changes related to the tables in the Replication Publisher (typically used for data like Items/Masters/Customers, etc.) for which you want to keep the data coordinated
Manual	This means that you can Replicate the Tables, but it will be a full Replication each time. This could be used for data as a template. I.e., we have a standard Chart of Account which we want to replicate each time we create a New Company, but after it was replicated it will not keep track of changes, and there will be no synchronization of data. (This is i.e., the setting that TRIMIT uses for copying demo data from the demo server to a newly created demo site)
Deactivated	This means no data will be sent if a Subscriber tries to replicate

Note

When creating a **Replication Publisher**, you need to be aware of all related Tables that might be necessary and need to be added as well.

Also, keep in mind that the Replication functionality will simply write or overwrite existing data; even if you have changed the data in the receiving (Subscriber) Company.

Enable Remote Replication

If you want to use this **Replication Subscriber** for replicating data from one database to another database, you need to have a checkmark in this field.

Max. No. of Records to Replicate

If **Enable Remote Replication** is set to *Yes*, you can enter the maximum number of records that can be replicated in one call of the Replication. The default will be set to *2000*.

This is a technical setup that will separate the call for Replicating data into several calls, each with a maximum of i.e., 2000 records.

The Replication engine will then call in a loop until all the waiting data (in the Replication Log) is copied (transferred).

The reason for doing so is to limit the quantity of data that needs to be moved over the Internet; only important if **Enable Remote Replication** is set to *Yes*.

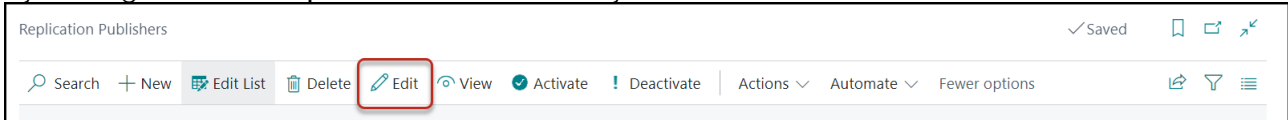
The setting of *2000* records is for Replication between two on-premise systems, and the setting is tested on these environments.

When replicating between online tenants (cloud systems) a rule of thumb is that the number must be a lot lower (i.e., 200-2000) depending on the record size for the table/tables that are replicated, but only real-life testing can determine the exact setting.

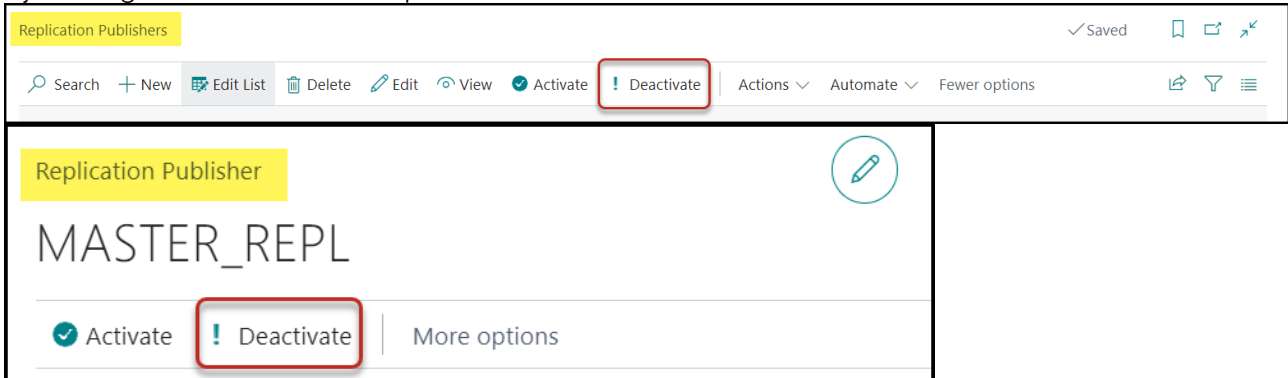
Set up Tables/Fields to Replicate

You can set up the Tables and their Fields for a Replication Publisher **Code** in the **Publisher Company** that you want to Replicate to the **Subscriber Company**.

By clicking **Edit** in the **Replication Publishers** List, you can select the Tables and their Fields.

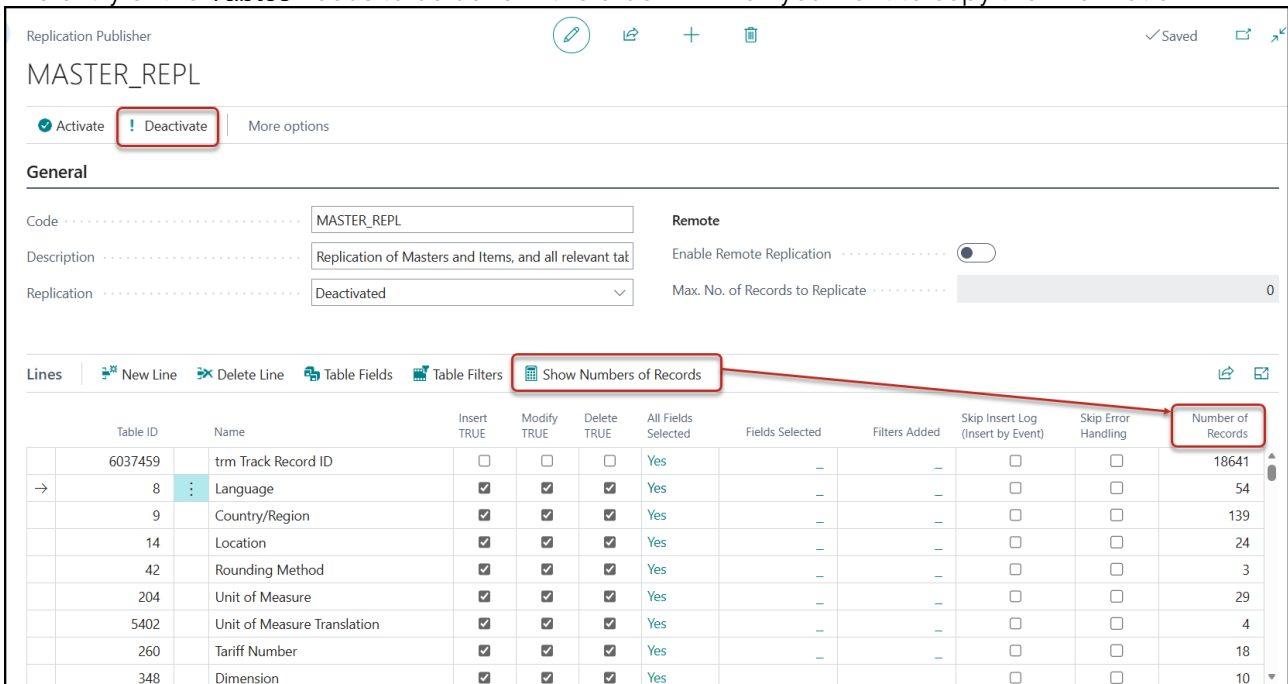


You can only change the content of a **Replication Publisher** if the Field **Replication** is set to **Deactivate**, by clicking **! Deactivate** in the Replication Publisher list or card.



You can select any Table, but keep in mind that you also need to select the Related Tables as well. I.e., for the Item Table (27), you also need the Unit of Measure (204) and the Vendor (23), etc.

The entry of the **Tables** needs to be done in the order in which you want to copy the information.



Description of the Fields of the Lines

Table ID

You can enter the **Table ID** of the Table you want to copy/update from the **Publisher Company** to the **Subscriber Company**.

You need to make sure, that you add the Tables in a logical order.

I.e.: if you want to copy the *6037103 Master* and the *27 Item*, the Master Table needs to come first. Otherwise – when creating a new Master – the system detects that there is already a (Master) Item in the Item Table and will not be able to create the new Master.

Name

The Name of the **Table ID** is shown.

Insert TRUE

A checkmark in this field determines if the AL Code for **OnInsert()** should be executed. No checkmark means that the AL Code for **OnInsert()** will not be executed.

Modify TRUE

A checkmark in this field determines if the AL Code for **OnModify()** should be executed. No checkmark means that the AL Code for **OnModify()** will not be executed.

Delete TRUE

A checkmark in this field determines if the AL Code for **OnDelete()** should be executed. No checkmark means that the AL Code for **OnDelete()** will not be executed.

I.e., In Table *6037104 No. System* the AL Code for **OnInsert()**, **OnModify()** and **OnDelete()** will only be executed if the corresponding field **Insert TRUE**, **Modify TRUE** and **Delete TRUE** have been set to *Yes*.

```
AL NoSystem.Table.al X
src > AL NoSystem.Table.al
2 {
1021   trigger OnDelete()
1022   begin
1023       Master.SetCurrentkey("No. System");
1024       Master.SetRange("No. System", Code);
1025       if not Master.IsEmpty then
1026           Error(TRIM003, Code, Master."No.");
1027
1028       CommentLineTRIMIT.SetRange("Table ID", 6037104);
1029       CommentLineTRIMIT.SetRange("Record ID", Code);
1030       if not CommentLineTRIMIT.IsEmpty then
1031           CommentLineTRIMIT.DeleteAll;
1032   end;
1033
1034   2 references
1035   trigger OnInsert()
1036   begin
1037       "Creation Date" := Today;
1038       "Modified Date" := 0D;
1039   end;
1040
1041   0 references
1042   trigger OnModify()
1043   begin
1044       NumberSequence;
1045       if Today <> "Creation Date" then
1046           "Modified Date" := Today;
1047   end;
```


All Fields Selected

This Field will automatically be set to *Yes*, if you did not select the Fields that needs to be copied/updated. This Field will automatically be set to *No*, if you did select the Fields that needs to be copied/updated.

Fields Selected

You can select which Field Values need to be copied/updated from a **Table ID** by clicking **Table Fields**. This will open the **Replication Publisher Fields** page.

This page can also be opened by clicking **All Fields Selected**.

Lines																						
Table ID		Name		Insert TRUE	Modify TRUE	Delete TRUE	All Fields Selected	Fields Selected	Filters Added	Skip Insert Log (Insert by Event)	Skip Error Handling	Number of Records										
	6037039	trm VarDim Type Subset		☒	☒	☒	Yes	—	—	☐	☐	5										
	6037115	trm VarDim Combination		☒	☒	☒	Yes	—	—	☐	☐	194										
	6037117	trm VarDim Dimension Option		☒	☒	☒	Yes	—	—	☐	☐	11										
	6036528	trm Translation		☒	☒	☒	Yes	—	—	☐	☐	4750										
→	6037103		trm Master	☒	☒	☒	Yes	—	—	☐	☐	148										
	27	Item		☒	☒	☒	Yes	—	—	☐	☐	4786										
	6037027	trm Shipment Group		☒	☒	☒	Yes	—	—	☐	☐	16										
	6037035	trm Collection		☒	☒	☒	Yes	—	—	☐	☐	14										

The first time you open the **Replication Publisher Fields** page for a Table the page will be empty.

You need to click **Insert/Update Fields**, so all the Fields of the Table are added.

After this, you can determine if the update of the Field Values in the **Subscriber Company** is allowed or not by adding/removing checkmarks in **Update Allowed**.

By default, all the fields have **Update Allowed** set to *Yes*.

Replication Publisher Fields

Edit List

Delete

Insert/Update Fields

Field ID ↑

Name

Update Allowed

(There is nothing to show in this view)

Replication Publisher Fields				
	Edit List	Delete	Insert/Update Fields	
Code ↑ ▼	Table ID ↑ ▼	Field ID ↑	Name	Update Allowed
→ MASTER_REPL	:	6037103	1 No.	☒
MASTER_REPL		6037103	101 Creation Date	☒
MASTER_REPL		6037103	102 Modified Date	☒
MASTER_REPL		6037103	104 Search Description	☒
MASTER_REPL		6037103	200 Information Item	☒
MASTER_REPL		6037103	201 Exclude from Transfer on Prod. Collecting Order	☒
MASTER_REPL		6037103	202 Type	☒
MASTER_REPL		6037103	302 Comment	☒

Code and Table ID have been added via **Personalize**.

As soon as you have created these **Field ID's**, the information in the **Line** will also change:

Lines											
New Line Delete Line Table Fields Table Filters Show Numbers of Records											
	Table ID	Name	Insert TRUE	Modify TRUE	Delete TRUE	All Fields Selected	Fields Selected	Filters Added	Skip Insert Log (Insert by Event)	Skip Error Handling	Number of Records
	6037039	trm VarDim Type Subset	☒	☒	☒	Yes	—	—	☐	☐	5
	6037115	trm VarDim Combination	☒	☒	☒	Yes	—	—	☐	☐	194
	6037117	trm VarDim Dimension Option	☒	☒	☒	Yes	—	—	☐	☐	11
	6036528	trm Translation	☒	☒	☒	Yes	—	—	☐	☐	4750
→	6037103	trm Master	☒	☒	☒	No	183	—	☐	☐	148
	27	Item	☒	☒	☒	Yes	—	—	☐	☐	4786
	6037027	trm Shipment Group	☒	☒	☒	Yes	—	—	☐	☐	16
	6037035	trm Collection	☒	☒	☒	Yes	—	—	☐	☐	14
	6037101	trm VarDim Master	☒	☒	☒	Yes	—	—	☐	☐	317

All Fields Selected will be set to No, even though you might have all Fields selected.

Filters Added

You can select which Records need to be copied/updated from a **Table ID** by clicking **Table Filters**.

This will open the **Filters for Publisher Line** page.

This page can also be opened by clicking on the field **Filters Added**.

You can set Filters on any field of the **Table ID**.

Lines											
New Line Delete Line Table Fields Table Filters Show Numbers of Records											
	Table ID	Name	Insert TRUE	Modify TRUE	Delete TRUE	All Fields Selected	Fields Selected	Filters Added	Skip Insert Log (Insert by Event)	Skip Error Handling	Number of Records
	6037039	trm VarDim Type Subset	☒	☒	☒	Yes	—	—	☐	☐	5
	6037115	trm VarDim Combination	☒	☒	☒	Yes	—	—	☐	☐	194
	6037117	trm VarDim Dimension Option	☒	☒	☒	Yes	—	—	☐	☐	11
	6036528	trm Translation	☒	☒	☒	Yes	—	—	☐	☐	4750
→	6037103	trm Master	☒	☒	☒	No	183	—	☐	☐	148
	27	Item	☒	☒	☒	Yes	—	—	☐	☐	4786
	6037027	trm Shipment Group	☒	☒	☒	Yes	—	—	☐	☐	16
	6037035	trm Collection	☒	☒	☒	Yes	—	—	☐	☐	14
	6037101	trm VarDim Master	☒	☒	☒	Yes	—	—	☐	☐	317

Filters for Publisher Line

Filter: trm Master

×

Brand Code

FASHION

▼

+ Filter...

Filter totals by:

+ Filter...

OK

Cancel

And the field **Filters Added** will show you the number of Filters you have set.

Lines											
New Line Delete Line Table Fields Table Filters Show Numbers of Records											
	Table ID	Name	Insert TRUE	Modify TRUE	Delete TRUE	All Fields Selected	Fields Selected	Filters Added	Skip Insert Log (Insert by Event)	Skip Error Handling	Number of Records
	6037115	trm VarDim Combination	☒	☒	☒	Yes	—	—	☐	☐	
	6037117	trm VarDim Dimension Option	☒	☒	☒	Yes	—	—	☐	☐	
	6036528	trm Translation	☒	☒	☒	Yes	—	—	☐	☐	
	6037103	trm Master	☒	☒	☒	No	183	1	☐	☐	
	27	Item	☒	☒	☒	Yes	—	—	☐	☐	
	6037027	trm Shipment Group	☒	☒	☒	Yes	—	—	☐	☐	
	6037035	trm Collection	☒	☒	☒	Yes	—	—	☐	☐	
	6037101	trm VarDim Master	☒	☒	☒	Yes	—	—	☐	☐	

Note

After changing the **Fields Selected** or the **Filters Added**, make sure that the field **Replication** of the Replication Publisher is set to a value different from *Deactivate* again.

Skip Insert Log (Insert by Event)

A checkmark in this field means that no **Replication Log** will be created automatically for this **Table ID**, but you can develop customization to do so in specific situations.

Skip Error Handling

This field is not by default on the page; you can add it via *Personalize*.

A checkmark determines that you will not see the errors when they occur.

This field will – during the replication – be set to *Yes* automatically if the **Connection Type** in the **Replication Subscriber** (so in the SUB) is not *Internal*.

Number of Records

This column will only be shown if you click *Show numbers of records*.

Lines

New Line

Delete Line

Table Fields

Table Filters

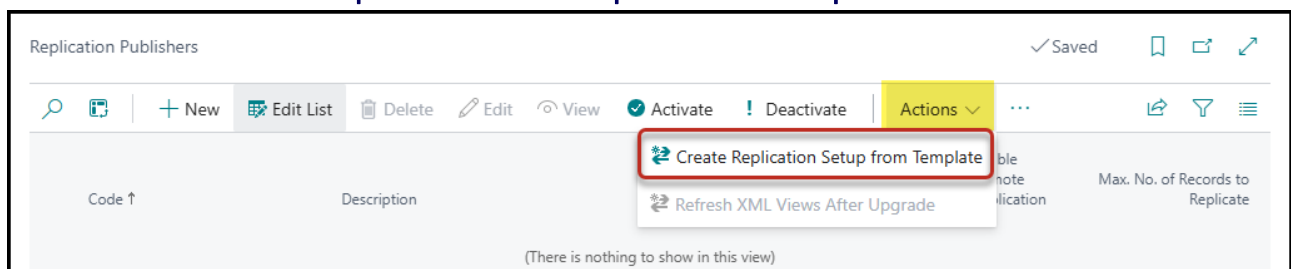
Show Numbers of Records

Table ID	Name	Insert TRUE	Modify TRUE	Delete TRUE	All Fields Selected	Fields Selected	Filters Added	Skip Insert Log (Insert by Event)	Skip Error Handling	Number of Records
6037039	trm VarDim Type Subset	☒	☒	☒	Yes	–	–	☐	☐	5
6037115	trm VarDim Combination	☒	☒	☒	Yes	–	–	☐	☐	194
6037117	trm VarDim Dimension Option	☒	☒	☒	Yes	–	–	☐	☐	11
6036528	trm Translation	☒	☒	☒	Yes	–	–	☐	☐	4750
→ 6037103	trm Master	☒	☒	☒	No	183	1	☐	☐	148
27	Item	☒	☒	☒	Yes	–	–	☐	☐	4786
6037027	trm Shipment Group	☒	☒	☒	Yes	–	–	☐	☐	16
6037035	trm Collection	☒	☒	☒	Yes	–	–	☐	☐	14

When closing the page, and opening the page, the column will disappear again, and you have to click *Show Numbers of records* again to let the system determine the **Number of Records** for all the Tables in the Publisher.

This number will not change based on the **Filters Added**, it will always show the total number of records to give you an impression of the size of the table data that would be replicated.

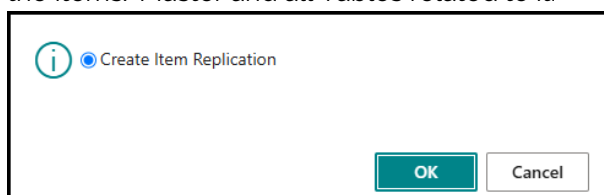
Actions, Create Replication Setup from Template



For copying data from Items/Masters, we have created a special Template that can be used.

If you click **Actions, Create Replication Setup from Template** in the list of Replication Publishers, you can choose for which Template you want to create a **Replication Publisher**.

For now, there is only 1 Template available: **Create Item Replication**: a list of Tables regarding copying the Items/Master and all Tables related to it.



After clicking **OK**, a message will appear, which you need to confirm by clicking **Yes**.

This function will create the setup for replicating masters/items and all related tables. Do you want to continue?

Yes

No

Now you can determine the **Code** for this **Replication Publisher**:

Dialog

Set a Code for the Publisher

MASTER_REPL

OK

Cancel

After clicking **OK**, it will show all the Tables in this **Replication Publisher** *MASTER_REPL*, and you can determine the **Tables** you want to replicate – by default, they are all chosen:

Lines - MASTER_REPL · 10000

Choose	Table ID	Name	Filters Added	Skip Insert Log (Insert by Event)	Skip Error Handling
→ ☒	6037459	trm Track Record ID	—	☐	☐
☒	8	Language	—	☐	☐
☒	9	Country/Region	—	☐	☐
☒	14	Location	—	☐	☐
☒	42	Rounding Method	—	☐	☐
☒	204	Unit of Measure	—	☐	☐
☒	5402	Unit of Measure Translation	—	☐	☐
☒	260	Tariff Number	—	☐	☐
☒	348	Dimension	—	☐	☐
☒	349	Dimension Value	—	☐	☐
☒	350	Dimension Combination	—	☐	☐

Close

Table ID	Name	Table ID	Name	Table ID	Name
6037459	trm Track Record ID	6037027	trm Shipment Group	23	Vendor
8	Language	6037035	trm Collection	99	Item Vendor
9	Country/Region	6037101	trm VarDim Master	5800	Item Charge
14	Location	6037036	trm Delivery Period	6037025	trm Item Charge Calc Line
42	Rounding Method	6037033	trm Matrix Limitation Setup	6037006	trm Ext Location Management
204	Unit of Measure	6037037	trm Collection Master Relation	279	Extended Text Header
5402	Unit of Measure Translation	6037034	trm Matrix Limit Master Relat	280	Extended Text Line
260	Tariff Number	6037121	trm Collection Item Valid	6037181	trm Picture Relation
348	Dimension	6037116	trm VarDim Positive/Negative	6037180	trm Picture
349	Dimension Value	6037119	trm VarDim Pos./Neg. Inactive	7012	Purchase Price
350	Dimension Combination	6037341	trm BOM Component Line	6036652	trm Dimension Purchase Price
351	Dimension Value Combination	6037109	trm Matrix Master	341	Item Discount Group
5722	Item Category	6037113	trm Matrix Item Line	7014	Purchase Line Discount
6036682	trm Group Code	6037120	trm Matrix Item Line Inactive	6	Customer Price Group
6037000	trm Group Integer	6037114	trm Matrix Cell	6036656	trm Price Group Parameters
6037104	trm No. System	6037118	trm Assortment	7002	Sales Price
6037194	trm Status Code	97	Comment Line	6036654	trm Dimension Sales Price
6037003	trm Contribution Margin	6036533	trm Comment Line	6036655	trm VarDim Sales Price
7500	Item Attribute	6037250	trm Additional Info Header	7004	Sales Line Discount
7501	Item Attribute Value	6037251	trm Additional Info Line	6036657	trm Sales Line Discount Type
7502	Item Attribute Translation	6037187	trm Additional Comment Header	6036663	trm Sales Line Disc Comb Rate
7503	Item Attr. Value Translation	6037193	trm Additional Comment Line	6037203	trm Search Table Header
6037100	trm VarDim Type	6037189	trm Measurement Chart Version	6037204	trm Search Table Line
6037102	trm VarDim Variant Option	6037190	trm Measurement Chart Line	6037205	trm Formula Header
6037039	trm VarDim Type Subset	6037191	trm Measurement	6037206	trm Formula Line
6037115	trm VarDim Combination	30	Item Translation	6037200	trm Formula Constant
6037117	trm VarDim Dimension Option	6037107	trm VarDim Item Header	6037201	trm Formula Global Variable
6036528	trm Translation	6037106	trm VarDim Item	6037202	trm Formula VarDim Field Ref
6037103	trm Master	7505	Item Attribute Value Mapping	6037212	trm Formula Dialog
27	Item	5404	Item Unit of Measure	352	Default Dimension
		5777	Item Reference	354	Default Dimension Priority

This Template will **not** include the Tables that might be necessary for using TRIMIT e-commerce. It will also **not** include the **Stockkeeping Units**; so, if you need them, you need to add **5700 Stockkeeping Unit** and **5701 Stockkeeping Unit Comment Line** manually in the Table List of the Publisher **Code**.

Replication Publishers					
🔍 + New Edit List Delete Edit View Activate Deactivate Actions Automate Fewer options					
Code ↑	Description	Replication	Enable Remote Replication	Max. No. of Records to Replicate	
→ MASTER_REPL	⋮ Replication of Masters and Items, and all relevant tables	Deactivated	☐	0	

Therefore, you can change the field **Replication**, or click *Activate*, which will give you 2 options:

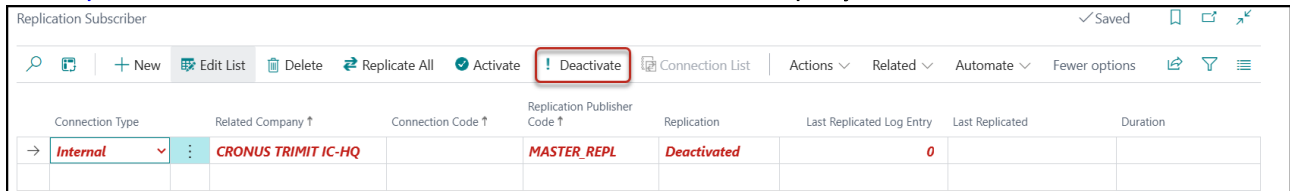
Replication Publishers					✓ Saved					
					Actions ▾	Automate ▾	Fewer options			
Code ↑	Description	Replication	Enable Remote Replication	Max. No. of Records to Replicate						
→ MASTER_REPL	Replication of Masters and Items, and all relevant tables	Automatic	☐	0						



Setup Replication Subscriber

After you have set up the **Replication Publisher Codes** in the **Publisher Company** (Head Office) from which you want to copy the data, you can now go to the **Subscriber Company** (Sales Office): The (Database and) Company to which you want to copy the data or to update the data.

In the **Replication Subscriber**, which can be found via **Search Replication Subscriber**, you can now determine from which **Publisher Company** (Head Office) you want to copy/update the data based on the [Replication Publisher Code](#), into the current **Subscriber Company** (Sales Office).



Connection Type	Related Company ↑	Connection Code ↑	Replication Publisher Code ↑	Replication	Last Replicated Log Entry	Last Replicated	Duration
→ Internal	CRONUS TRIMIT IC-HQ		MASTER_REPL	Deactivated	0		

Note

You are not able to change the content of an existing record unless you click **Deactivate**. Only records with Field **Replication** set to *Deactivated* can be changed.

Description of the Fields

Connection Type

You can choose between the following three options:

Internal	If you want to copy data from a company to another company in the same Database
External	If you want to copy data from a company to a company in another Database
Portal Synchronization	<i>This is an option we had in the past for using the Item Attributes as a Search Method on the TRIMIT Portals but is not applicable anymore. This has been replaced by the Tag Filter functionality. See White Paper – TRIMIT Tag Filters</i>

Related Company

In this Field, you need to select the Company from which you want to copy/update data.

If the **Connection Type** is *Internal* (or *Portal Synchronization*), the lookup (**Alt+Arrow down**) will show all companies within the current database.

If the **Connection Type** is *External*, you first need to enter the **Connection Code**. After that, you can also use the lookup in the **Related Company** to select a Company from the other database based on the **Tenant** and **Environment** of the **Connection Code**.

Connection Code

The **Connection Code** is only applicable for **Connection Type** *External*.

See [Connection Code](#) how to setup this Connection Code.

Replication Publisher Code

In this Field, you need to select the **Replication Publisher Code** from the **Related Company** that you want to copy/update into the current **Subscriber Company**.

Replication

This is the content of the Field **Replication** of the **Replication Publisher Code** from the **Related Company**. With the content of the Field **Replication**, you can determine how the copy should take place.

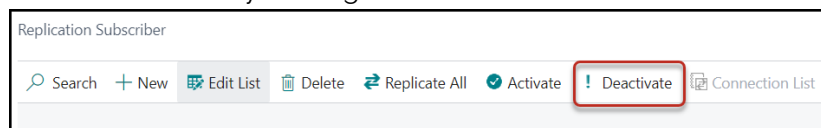
You can choose between the following three options:

Automatic	This means that you can set up a Job Queue in the Subscriber Company , that the Replication will run the Replication Publisher Codes that are also set in the Publisher Company to automatic. If this is required, it would make sense to have both Publisher and Subscriber set to automatic, as it otherwise would do a full replication each time if Publisher were set to <i>Manual</i> . With <i>automatic</i> it will also – after an initial replication – only replicate the differences since the last replication.
Manual	This means that the replication must be run manually when required. If the Publisher is set to <i>Automatic</i> , it will only replicate the differences since the last replication.
Deactivated	This means that it cannot be run.

You can only change the *Automatic* into *Deactivated*.

You can only change the *Manual* into *Deactivated*.

This can be done by clicking **Deactivate**.



Last Replicated No.

Last entry in the **Replication Log** in the **Publisher Company** that has been replicated.

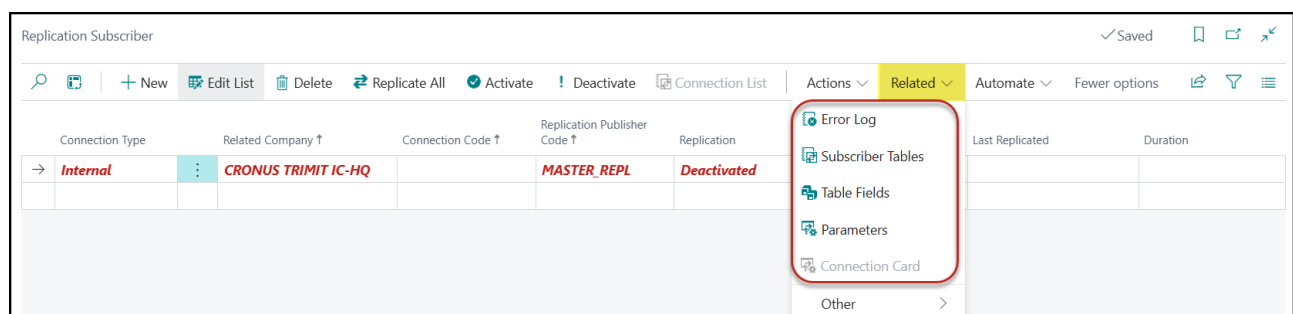
Last Replicated

The Date and Time of the last execution of this **Replication Subscriber**.

Duration

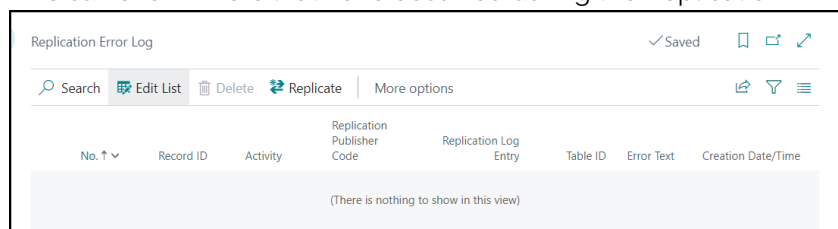
This field shows you the Time it took for the last executed Replication.

Related



Error Log

This can show Errors that have occurred during the Replication.



Subscriber Tables

This will show the list of Tables of the **Replication Publisher Code** from the **Related Company** (the Publisher Company). You cannot change this in the **Subscriber Company**; therefore, you need to go to the **Publisher Company**.

By clicking **Actions, Show Numbers of Records** it will show the column **Number of Effective Logs**.

This will show the number of records in the Replication Log in the **Publisher Company** of a Table after the Initial Replication; the records that have been created in the **Publisher Company** but have not been replicated yet to the **Subscriber Company**.

I.e., if you created 1 new Master in the **Publisher Company** the **Number of effective logs** would be 1 for Table ID 6037103, but also for other related Tables (like i.e., 15 Logs for Item) you will see the **Number of Effective Logs** <> 0 (zero) (like i.e., 15 for Item).

Replication Publish Lines						
Initial Replication Table						
Actions Fewer options						
Show Numbers of Records						
Table ID	Name	Insert TRUE	Modify TRUE	Delete TRUE	Number of Effective Logs	
6037102	trm VarDim Variant Option	☒	☒	☒	0	
6037039	trm VarDim Type Subset	☒	☒	☒	0	
6037115	trm VarDim Combination	☒	☒	☒	0	
6037117	trm VarDim Dimension Option	☒	☒	☒	0	
6036528	trm Translation	☒	☒	☒	0	
6037103	trm Master	☒	☒	☒	1	
27	Item	☒	☒	☒	15	
6037027	trm Shipment Group	☒	☒	☒	0	
6037035	trm Collection	☒	☒	☒	0	

Table Fields

This will show the list of Fields of all the Tables of the **Replication Publisher Code** from the **Related Company** (Publisher Company) based on the Tables that have been chosen.

You cannot change this in the **Subscriber Company**; therefore, you need to go to the **Publisher Company**.

Fields TRIMIT								
+ New Edit List Delete Automate Fewer options								
Table/No. F	No. F	Table/Name	Field/Name	Field Caption	Type	Class	Option/String	Relation/Table/No
3	1	Payment Terms	Code	Code	Code	Normal		0
3	2	Payment Terms	Due Date Calculation	Due Date Calculation	DateFormula	Normal		0
3	3	Payment Terms	Discount Date Calculation	Discount Date Calculation	DateFormula	Normal		0
3	4	Payment Terms	Discount %	Discount %	Decimal	Normal		0
3	5	Payment Terms	Description	Description	Text	Normal		0
3	6	Payment Terms	Calc. Pmt. Disc. on Cr. Memos	Calc. Pmt. Disc. on Cr. Memos	Boolean	Normal		0
3	8	Payment Terms	Last Modified Date Time	Last Modified Date Time	DateTime	Normal		0
3	720	Payment Terms	Coupled to CRM	Coupled to Dataserve	Boolean	Normal		0
3	6036800	Payment Terms	trm Credit Card Pmt. on Portal	Credit Card Pmt. on Portal	Boolean	Normal		0
3	2000000000	Payment Terms	SystemId	System ID	GUID	Normal		0
3	2000000001	Payment Terms	SystemCreatedAt	Created At	DateTime	Normal		0
3	2000000002	Payment Terms	SystemCreatedBy	Created By	GUID	Normal		20000000120
3	2000000003	Payment Terms	SystemModifiedAt	Modified At	DateTime	Normal		0
3	2000000004	Payment Terms	SystemModifiedBy	Modified By	GUID	Normal		20000000120
4	1	Currency	Code	Code	Code	Normal		0
4	2	Currency	Last Date Modified	Last Date Modified	Date	Normal		0
4	3	Currency	Last Date Adjusted	Last Date Adjusted	Date	Normal		0
4	4	Currency	ISO Code	ISO Code	Code	Normal		0
4	5	Currency	ISO Numeric Code	ISO Numeric Code	Code	Normal		0
4	6	Currency	Unrealized Gains Acc.	Unrealized Gains Acc.	Code	Normal	etc.	15

Parameters

After you have set up a **Replication Subscriber**, you are able to set some **Parameters** to change the Data from the Publisher Company before it is imported in the Subscriber.

This is possible for *Internal* and *External* Replication Subscribers.

Make sure the **Replication Subscriber** is *Deactivated*, otherwise the *Replication Parameters* page will not open!!

For other replications of data, you might want to create your own customization in which you can change the content of the Fields that will be replicated, but this way you will have an example of how to set this up.

Replication Parameters - CRONUS TRIMIT IC-HQ · MASTER_REPL

ManagePage

General

Use Default Event Subscriber

Item

Replace Vendor No.

IC-HQ

Replace Costing Method

Replace Replenishment Policy

No

New Costing Method

FIFO

Replace Replenishment System

Purchase

Location Clear Whse. Param.

Replace Create Related Order Instantly

No

Description of the Fields

Use Default Event Subscriber

You are able to choose if you want to use the **Default Event Subscriber**
The default is *Yes*. But when upgrading; check if you want to set it to *Yes*.

Note

Make sure when creating a new Replication Subscriber, if you want to use the **Default Event Subscriber** functionality, that you open the **Replication Parameters** and set the field **Use Default Event Subscriber** to *Yes* (default value).

Replace Vendor No.

If the Item in the **Publisher Company** (Head Office) is bought from external Vendors, the same Item in the **Subscriber Company** (Sales Office) might simply be bought from the Head Office.
Therefore, you might want to replace the **Vendor No.** after replication by the **Vendor No.** of the Head Office.

Replace Replenishment Policy

If the Item of the **Publisher Company** (Head Office) is bought or produced per Order, the same Item in the **Subscriber Company** (Sales Office) might simply be bought on Inventory from the **Publisher Company**.
Therefore, you might want to replace the **Replenishment Policy** after replication by *Inventory*.

Replace Replenishment System

If the Item in the **Publisher Company** (Head Office) is produced, the same Item in the **Subscriber Company** (Sales Office) might simply be bought from the Head Office.
Therefore, you might want to change the **Replenishment System** from *Production* to *Purchase*.

If this Parameter is filled, the **Replenishment System** for the replicated Masters/Items will all be set to the content of **Replace Replenishment System**, and the field **Automatic Replenishment** will be set to *No*.

Replace Create Related Order Instantly

If the Item in the **Publisher Company** (Head Office) is bought/produced per Order, and a related order is created instantly, you might not want to do this in the **Subscriber Company** (Sales Office),so you can change this setting:

No
Set to No
Set to Yes

If you choose *No*, you need to be aware that a Sales Line (in a **Subscriber Company**), could also immediately create an Intercompany Purchase Order.

Replace Costing Method / New Costing Method

With **Replace Costing Method**, you can determine if the **Costing Method** of copied Masters and Items should be changed into the **New Costing Method**

Note

Example: if the **Publisher Company** might have *Standard Costing Method*, you might want to have it in the **Subscriber Company** set to *FIFO*, based on the internal Purchase/Sales Price.

Location Clear Whse. Parameters

If you are copying the **Locations** from the **Publisher Company** (Head Office) to the **Subscriber Company** (Sales Office), you might not want to have all the fields regarding WMS filled with checkmarks or default Bin Codes – because the Logistics of the Sales Office might simply take place in the Head Office.

Location Card

BLACK
Black Warehouse (WMS)
in the Publisher Company

Online Map
Resource Locations
Zones
Bins
Inventory Posting Setup
Warehouse Employees
Dimensions
More options

Warehouse

Require Receive
Require Shipment
Require Put-away
Use Put-away Worksheet
Require Pick

Bin Mandatory
Directed Put-away and Pick
Default Bin Selection
Outbound Whse. Handling Time
Inbound Whse. Handling Time

Base Calendar Code
Customized Calendar
Use Cross-Docking
Cross-Dock Due Date Calc.

Bins

Receipt
Receipt Bin Code
SHIPMENT
Shipment Bin Code
PRODUCTION
Open Shop Floor Bin Code
To-Production Bin Code
From-Production Bin Code

Adjustment
Adjustment Bin Code
Cross-Dock
Cross-Dock Bin Code
Assembly
To-Assembly Bin Code
From-Assembly Bin Code
Asm.-to-Order Shtpt. Bin Code

Job
To-Job Bin Code

Bin Policies

Special Equipment
Bin Capacity Policy
Check Warehouse Class

Allow Breakbulk
Put-away
Put-away Template Code
Always Create Put-away Line

Pick
Always Create Pick Line
Pick According to FEFO

Location Card
BLACK Black Warehouse (WMS) in the Subscriber Company

Online Map
Resource Locations
Zones
Bins
Inventory Posting Setup
Warehouse Employees
Dimensions
More options

Warehouse

Require Receive
Require Shipment
Require Put-away
Use Put-away Worksheet
Require Pick

Bin Mandatory
Directed Put-away and Pick
Default Bin Selection
Outbound Whse. Handling Time
Inbound Whse. Handling Time

Base Calendar Code
Customized Calendar
Use Cross-Docking
Cross-Dock Due Date Calc.

Bins

Receipt
Receipt Bin Code
Shipment
Shipment Bin Code
Production
Open Shop Floor Bin Code
To-Production Bin Code
From-Production Bin Code

Adjustment
Adjustment Bin Code
Cross-Dock
Cross-Dock Bin Code
Assembly
To-Assembly Bin Code
From-Assembly Bin Code
Asm.-to-Order Shpt. Bin Code

Job
To-Job Bin Code

Bin Policies

Special Equipment
Bin Capacity Policy
Check Warehouse Class

Allow Breakbulk
Put-away
Put-away Template Code
Always Create Put-away Line

Pick
Always Create Pick Line
Pick According to FEFO

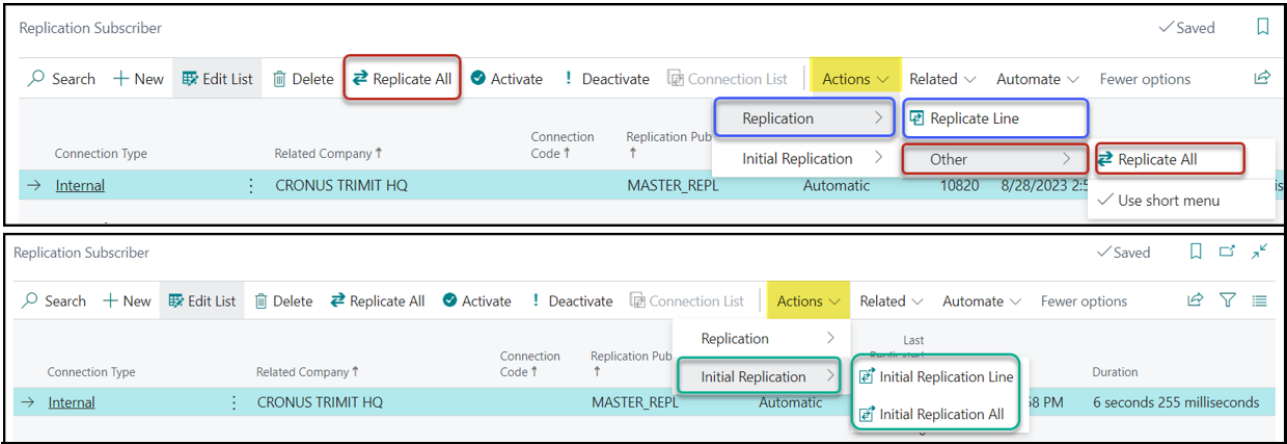
Connection Card

This will open the **Connection Card** of the **Connection Code**.
This action is only enabled if the **Connection Code** is filled.

Process of Replicating data

After you have set up the **Replication Publisher** and the **Tables/Fields to Replicate** in the **Publisher Company** and the **Replication Subscriber** and the **Parameters** in the **Subscriber Company**, you can execute the actual Replication via the **Actions** in the **Replication Subscriber** (or via a Job Queue).

Actions

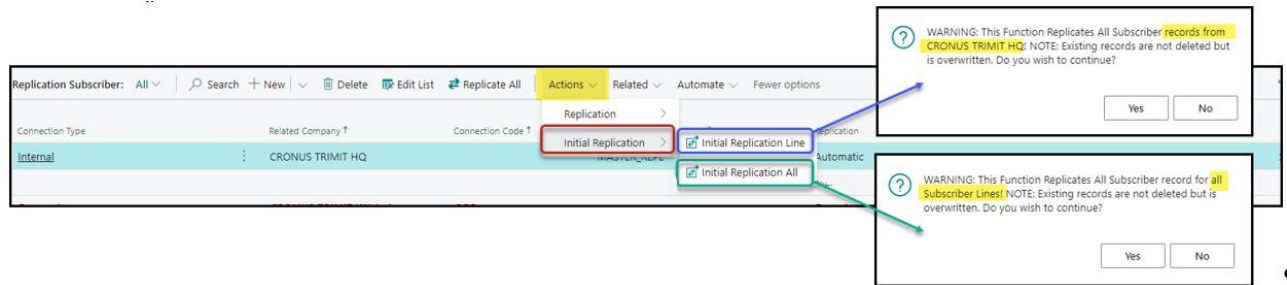


Replication and Initial Replication

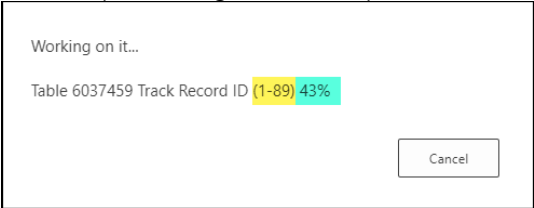
To execute the Replication, you need to click one of the four Actions:

Replicate Line	Replicate only all the changed/added/deleted Table Data of the Replication Publisher of the current Line.
Replicate All	Replicate all the changed/added/deleted Table Data of the Replication Publisher of all Lines.
Initial Replication Line	Replicate all records in the Tables of the Replication Publisher on the current Line. If records exist in the Subscriber Company , they are overwritten (they are not deleted first).
Initial Replication All	Replicate all records in the Tables of the Replication Publisher on all the Lines. If records exist in the Subscriber Company , they are overwritten (they are not deleted first).

When using **Initial Replication Line** or **Initial Replication All** you will get an extra message that needs to be confirmed:



After you have confirmed these messages with **Yes**, you will see how many tables need to be copied, and the percentage within a specific table that already has been copied.



Depending on the number of Tables and Data in it, this can take several minutes.

Note

If you use **Replicate All**, the system will check if the **Initial Replication All** was already executed. If not, the action **Replicate All** will be executed as **Initial Replication All**.

Note

The framework for Replication does **not** support fields of the type *MediaSet*. In the Item Replication Framework, this is handled using a Publisher, and Subscriber (code), but in all other scenario's/tables it has to be a customized AL code to handle this.

Connection Code

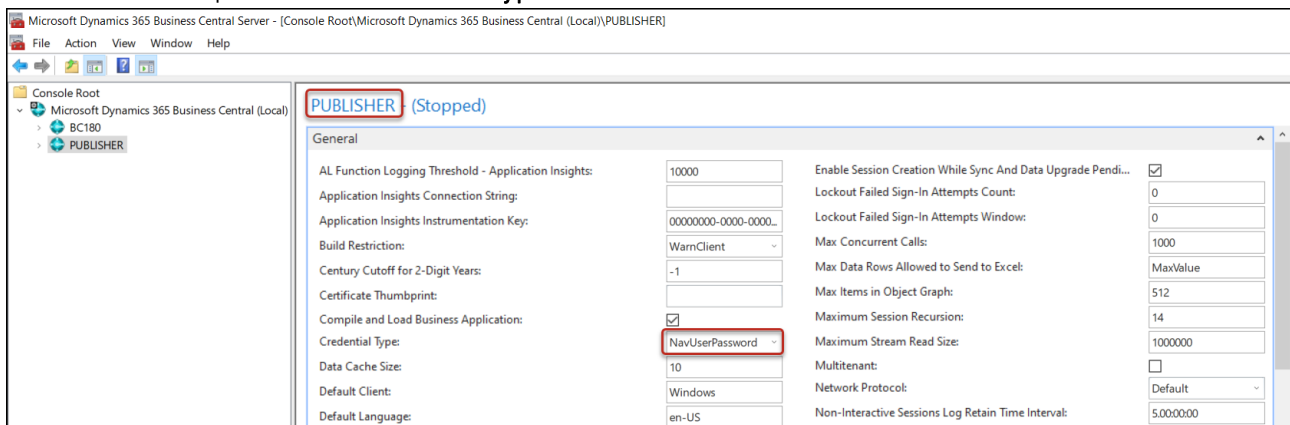
Before you can create a **Connection Code**, you need to make sure that your settings of the **Publisher Database** are set right.

External Connection for Publishing On-Premise Database/Company

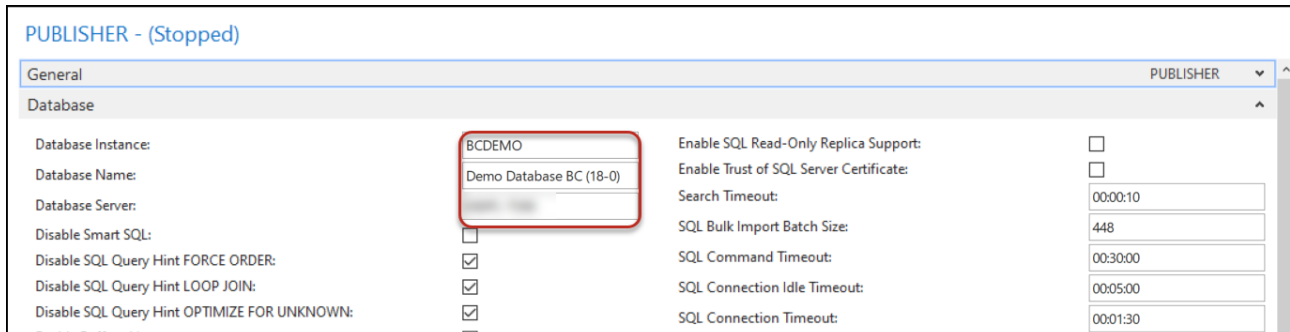
These setups are applicable if you want to Replicate Data from an on-premise **Publisher Database** (Head Office) to an on-premise **Subscriber Database** or a cloud **Subscriber Database** (Sales Offices).

Extra Instance for your on-premise Database

Create a special **Instance** via **Business Central Administration** (i.e., **PUBLISHER**) and in the properties of this Instance the parameter **Credential Type** needs to be set to *NavUserPassword*.



Make sure that you have the same connection to your on-premise **Publisher Database**. I.e.:



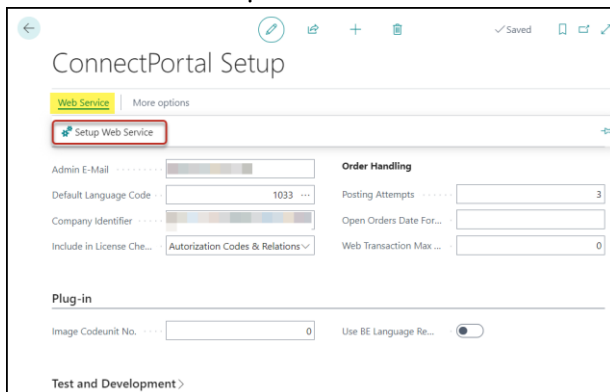
In this **Publisher Database**, you also need to create a special user/password that will be used specifically for the replication.

I.e.: **User** *NAS* with **Password** *BC28repl#\$*

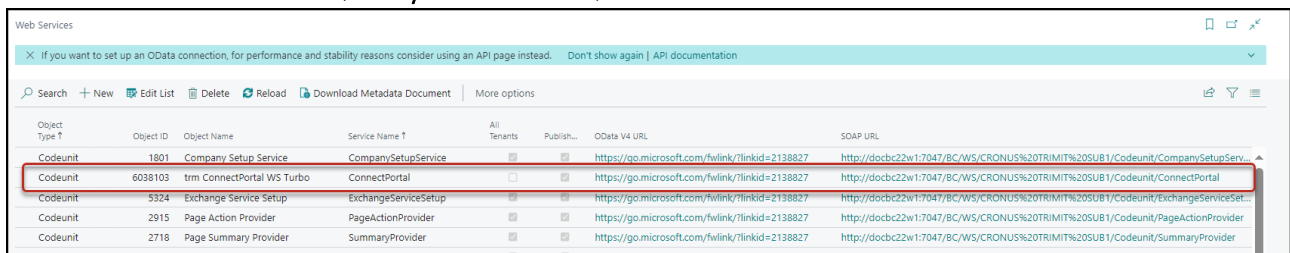
Be careful in assigning **User Rights** *SUPER* to this special user.

Web Service in Publisher Database/Company

You also need to create a **Web Service** in the **Publisher Database/Company** (of the Head Office), which can be found by clicking **Search Web Service**. However, this Web Service needs to be created via the **ConnectPortal Setup**.



Via the Action **Web Service, Setup Web Service**, the fields of the Web Service will be filled.



Object Type	Object ID	Object Name	Service Name	All Tenants	Publish...	OData V4 URL	SOAP URL
Codeunit	1801	Company Setup Service	CompanySetupService			https://go.microsoft.com/fwlink/?linkid=2138827	http://docbc22w1:7047/BC/WS/CRONUS%20TRIMIT%20SUB1/Codeunit/CompanySetupServ...
Codeunit	6038103	trm ConnectPortal WS Turbo	ConnectPortal			https://go.microsoft.com/fwlink/?linkid=2138827	http://docbc22w1:7047/BC/WS/CRONUS%20TRIMIT%20SUB1/Codeunit/ConnectPortal
Codeunit	5324	Exchange Service Setup	ExchangeServiceSetup			https://go.microsoft.com/fwlink/?linkid=2138827	http://docbc22w1:7047/BC/WS/CRONUS%20TRIMIT%20SUB1/Codeunit/ExchangeServiceSet...
Codeunit	2915	Page Action Provider	PageActionProvider			https://go.microsoft.com/fwlink/?linkid=2138827	http://docbc22w1:7047/BC/WS/CRONUS%20TRIMIT%20SUB1/Codeunit/PageActionProvider
Codeunit	2718	Page Summary Provider	SummaryProvider			https://go.microsoft.com/fwlink/?linkid=2138827	http://docbc22w1:7047/BC/WS/CRONUS%20TRIMIT%20SUB1/Codeunit/SummaryProvider

Object Type

Will be filled with: *Codeunit*.

Object ID

Will be filled with: *6038103*.

Object Name

Will be filled automatically based on the **Object ID**.

Service Name

Will be filled with a Name for this Web Service, *ConnectPortal*.

Published

Will be set to *Yes*.

OData via URL

This will be filled automatically based on the **Object Type** and the **Object ID**. It specifies the URL that is generated for the Web Service.

SOAP URL

This will be automatically filled based on your **Server Name**, **Object Type** and **Service Name**

Note

For the TRIMIT Portals you also need to have this **Web Service** which needs to be created the same way via the **ConnectPortal Setup**. This Web Service will however also be used for the *External* Replications.

Connection Code in Subscriber Database/Company

Now you can complete the **Replication Subscriber** in the **Subscriber Database** by creating a new **Connection Code**.

Therefore, click **Search Replication Subscriber**, and make sure the Line is *Deactivated*.

Replication Subscriber: All							
Search + New Delete Edit List Replicate All Activate Deactivate Connection List Actions Related ...							
Connection Type	Related Company ↑	Connection Code ↑	Replication Publisher Code ↑	Replication	Last Replicated Log Entry	Last Replicated	Duration
Internal	CRONUS TRIMIT HQ		MASTER_REPL	Automatic	10820	8/28/2023 2:58 PM	6 seconds 255 milliseconds
External	CRONUS TRIMIT W1 Ltd.	CR	REPLICATE	Deactivated	0		
External	CRONUS TRIMITBC13 MASTER	CONNECT	MASTER_DATA	Deactivated	0		

See [Replication Subscriber](#) for a Description of the fields.

You can create a new **Connection Setup** via **Search Connection Setup** or via the **Replication Subscriber** by clicking **Alt+Arrow Down** in the field **Connection Code**:

Connection Setup Card

CONNECT

Ping the Connection

Get Version

More options

General

Code

CONNECT

User Id

Type

On-premise Replication

Password

Authentication Type

Basic

Use OData Web Service

On-premise Replication

Server Name

Service Port

7547

Service Name

PUBLISHER

Timeout

60000

Company Name

CRONUS TRIMIT

Batch Size

10000

Code

Name for this Connection Code

Type

If the **Publisher** database is an on-premise database: *On-premise Replication*.

Authentication Type

This field will automatically be set to *Basic* in case **Type** is *On-premise Replication*.

User Id

User ID you created specifically for Replication as mentioned in [Instance Setup](#)

Password

Password you created specifically for Replication as mentioned in [Instance Setup](#).

Use Odata Web Service

This field is not shown by default, but you can add it via *Personalize*.

You can determine – especially for an *External* Replication Subscriber – if you want to **Use OData Web Service**.

Note

<https://learn.microsoft.com/en-us/dynamics365/business-central/dev-itpro/webservices/odata-web-services>

The Open Data Protocol (OData) is a web protocol that is designed for querying tabular data and provides you with an alternative to SOAP-based web services. OData builds on web technologies such as HTTP and JavaScript Object Notation (JSON) to provide access to information from different applications, services, and stores. OData uses URIs for resource identification and commits to an HTTP-based, uniform interface for interacting with resources. This commitment to core Web principles allows for OData to enable a new level of data integration and interoperability across a broad range of clients, servers, services, and tools.

You can use OData web services to show Business Central data, and you can update data in a Business Central database using OData web services.

Server Name

Name of the Server of the Replication **Publisher** on-premises Database

Service Name

Name of the Instance for the Replication **Publisher** on-premises Database

Company Name

You need to select a Company.

The lookup in this field will show you all the Companies in the Publisher Database based on the **Server Name** and **Service Name**.

This does not have to be the same as the **Related Company** in the Replication Subscriber.

Note

The **Company Name** is needed to test the Connection Setup while clicking the *Ping the Connection* Action, because it is still part of the Web Service URL.

But you can create several Replication Subscribers to several **Related Companies** in the same Database, which makes use of the same **Connection Code**.

Service Port

SOAP Services Port that you used in the Instance for the Replication Publisher

Timeout

No. of seconds for Timeout

Batch Size

You can reduce the quantity of **Replication Log Entries** that are processed in each Replication cycle.

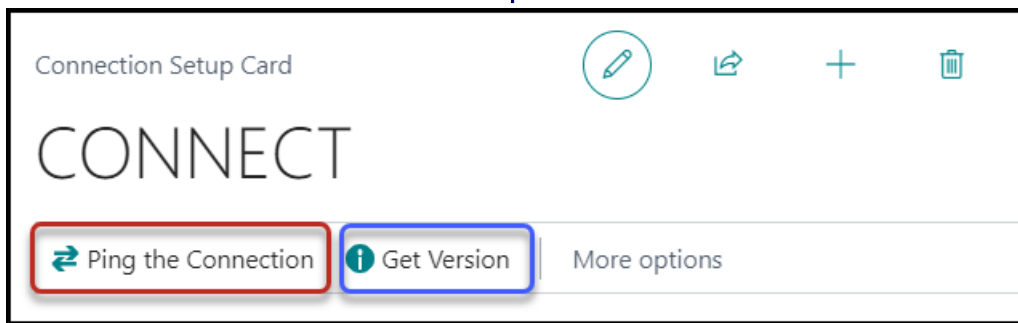
The Replication will then run in a loop until all changes in the Replication Log Entries are processed.

The field **Batch Size** in the page of the **Connection Setup Card** is actually

Field 20 **Maximum Size** in Table *6036517 trm Connection Setup*.

There is no default for this Field, but you could set it to *10000*.

Actions in the Connection Setup



With the action *Ping the Connection*, you can test if the fields (**Server Name**, **Service Name** and **Company Name**) are filled right.

With the action *Get Version*, you can get the version (build) of this Server Name/Service Name. This will make it easier to determine if the version (build) of this **Connection Setup** (Publisher) and the database in which you want to copy data to (Subscriber) are the same, because they need to be the same.

This will only work if there is a working connection, so the **Ping the Connection** does work.

External Connection for Publishing Cloud Database/Company

These setups are applicable if you want to Replicate Data from a cloud **Publisher Database** (Head Office) to a cloud **Subscriber Database** (Sales Offices) – although in theory it could also be an on-premise **Subscriber Database** (Sales Office).

Azure Active Directory Application

In the **Publisher Database** (Head Office), you need to set up an **Azure Active Directory Application**, which can be found via **Search Azure**.

You can read more about this in the [White Paper - TRIMIT OAuth Authentication in Connect Setup 23.1](#)

Connection Code in Subscriber Database/Company

Now you can complete the **Replication Subscriber** in the **Subscriber Database** by creating a new **Connection Code**. Therefore, click **Search Replication Subscriber**, and make sure the Line is *Deactivated*.

Replication Subscriber Work Date: 9/6/2020								
✓ Saved								
+ New Edit List Delete Replicate All Activate Deactivate Connection List Actions Related Fewer options								
Connection Type	Related Company	Connection Code	Replication Publisher Code	Replication	Last Replicated Log Entry	Last Replicated	Duration	
Internal	CRONUS TRIMIT HQ		MASTER_REPL	Automatic	91	7/11/2024 1:22 PM	3 minutes 43 second...	
External	CRONUS TRIMITBC13 MA...	CONNECT	CRONUS	Automatic	415162	3/2/2020 8:47 PM	23 minutes 22 secon...	
→ External	CRONUS TRIMITBC13 M...	CONNECT	TEST	Deactivated	415162	3/2/2020 8:05 PM	2 seconds 68 millis...	

See [Replication Subscriber](#) for a Description of the fields.

You can create a new **Connection Setup** via **Search Connection Setup** or via the **Replication Subscriber** by clicking **Alt+Arrow Down** in the field **Connection Code**:

Connection Setup Card

+

✓ Saved

CR

Ping the Connection
Get Version
More options

General

Code

CR

User Id

Type

Cloud Replication

Password

Authentication Type

OAuth 2.0 Service to Service

Use OData Web Service

Cloud Replication

Tenant

Timeout

60000

Environment

Batch Size

10000

Company Name

CRONUS TRIMIT W1 Ltd.

Code

Name for this Connection Code

Type

If the Publisher database is a cloud database: *Cloud Replication*.

Authentication Type

For **Type** *Cloud Replication* – the default is *OAuth 2.0 Service to Service*.

You can, however, choose between the following two options:

Basic	Basic Authentication used for Replication to an on-premise environment
OAuth 2.0 Service to Service	OAuth Authentication used for Replication to a cloud environment

Fill the rest of the fields in the **Connection Setup** with the correct information of the other tenant (the Publisher Database), which participates in the remote replication.

You need to enter your new **Client Id** and **Client Secret** in the fields **User Id** and **Password**.

This Connection will then use an **Azure Active Directory Application** registration to login on the other tenant where the Data is copied from.

Actions in the Connection Setup

Connection Setup Card

+

CONNECT

Ping the Connection
Get Version
More options

With the action *Ping the Connection*, you can test if the fields (**Server Name**, **Service Name** and **Company Name**) are filled right.

With the action ***Get Version***, you can get the version (build) of this Server Name/Service Name. This will make it easier to determine if the version (build) of this **Connection Setup** (Publisher) and the database in which you want to copy data to (Subscriber) are the same, because they need to be the same.

This will only work if there is a working connection, so the **Ping the Connection** does work.

Replication Log

Any change in the **Publisher Company** after an **Initial Replication** has been executed in the **Subscriber Company** can be saved in the **Replication Log** of the **Publisher Companies**.

This can be found via **Search Replication Log** in the **Publisher Company** (Head Office).

I.e., if you have created a **Replication Publisher Code** for copying Master data and have executed the Initial Replication in the Subscriber Company, and have changed data of a Master, the **Replication Log** will show you what has happened after the Initial Replication.

Replication Log							✓ Saved	🔖	📄	✎
🔍 Search 🗑️ Delete Replicated Log Records More options							🔗 🔍 ☰			
No. ↑	Record ID	Activity	Table ID	User ID	Creation Date/Time					
85		Initial	6037206	ADMIN	7/13/2023 3:17 PM					
86		Initial	6037200	ADMIN	7/13/2023 3:17 PM					
87		Initial	6037201	ADMIN	7/13/2023 3:17 PM					
88		Initial	6037202	ADMIN	7/13/2023 3:17 PM					
89		Initial	6037212	ADMIN	7/13/2023 3:17 PM					
90	:	Initial	352	ADMIN	7/13/2023 3:17 PM					
91		Initial	354	ADMIN	7/13/2023 3:17 PM					
92	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_FRAME	Modify	6037106	ADMIN	7/18/2023 9:01 AM					
93	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_FRAME	Modify	6037106	ADMIN	7/18/2023 9:02 AM					
94	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_FRAME	Modify	6037106	ADMIN	7/18/2023 9:02 AM					
95	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_MAT	Modify	6037106	ADMIN	7/18/2023 9:03 AM					
96	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_MAT	Modify	6037106	ADMIN	7/18/2023 9:03 AM					
97	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_MAT	Modify	6037106	ADMIN	7/18/2023 9:03 AM					
98	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_COL	Modify	6037106	ADMIN	7/18/2023 9:03 AM					
99	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_COL	Modify	6037106	ADMIN	7/18/2023 9:03 AM					
100	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_COL	Modify	6037106	ADMIN	7/18/2023 9:03 AM					
101	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_PAT	Modify	6037106	ADMIN	7/18/2023 9:03 AM					
102	trm VarDim Item: Item,520000001,0,None,"",Dimension 1,"",,"SOFA_PAT	Modify	6037106	ADMIN	7/18/2023 9:03 AM					

You can delete records by clicking **Delete Replicated Log Records** in the ribbon **Home**.

Records will, however, only be deleted after they have been replicated in the **Subscriber Company**.

In case errors might occur when you Replicate Data, you can find those errors via **Search Replication Error** in the **Subscriber Company** as mentioned earlier in [Error Log](#).

Replication Error Log

✓ Saved

🔖

📄

✎

🔍 Search

📋 Edit List

🗑️ Delete

🔄 Replicate

More options

🔗

🔍

☰

No. ↑	Record ID	Activity	Replication Publisher Code	Replication Log Entry	Table ID	Error Text	Creation Date/Time
(There is nothing to show in this view)							

Job Queue

If the Field **Replication** in the **Replication Subscriber** (Sales Office) is set to *Automatic*, you can create your own batch job for the Replication in the **Job Queue** in the **Subscriber Database/Company**. You can find it via **Search Job Queue Entries**.

Your **Job Queue Entry** could look as follows:

Job Queue Entry Card | Work Date: 6-9-2020

+

✓ Saved

Codeunit · 6036532 · trm Replication Handling

Process | Reports | More options

General

Show less

Object Type to Run

Codeunit

Maximum No. of Attempts to Run

0

Object ID to Run

6036532

Rerun Delay (sec)

0

Object Caption to Run

trm Replication Handling

Last Ready State

20-7-2021 13:07

Description

trm Replication Handling

Earliest Start Date/Time

Parameter String

Expiration Date/Time

Job Queue Category Code

Job Timeout

12 hours

User ID

KBI@TRIMIT.COM

Status

On Hold

Recurrence

Recurring Job

Next Run Date Formula

Run on Mondays

Starting Time

18:00:00

Run on Tuesdays

Ending Time

Run on Wednesdays

No. of Minutes between Runs

1440

Run on Thursdays

Inactivity Timeout Period

5

Run on Fridays

Run on Saturdays

Run on Sundays

Customization

If you want to use extra AL Code during the replication process, you can use the Business Event Publisher Functions available in the Codeunit *6036532 trm Replication Handling*.

I.e., if you use the Replication functionality in an Intercompany setup, you want to change the **Vendor No.** of the Masters/Items after the Master has been copied from the **Publisher Company** (Head Office) (with an external Vendor No.) to the Sales Office (with Vendor "Head Office").

You could also look at Codeunit *6036535 trm Repl Item Structure Events* for examples, because in this Codeunit we take the content of the **Parameters** to change Data in the Subscriber after copying the Data from the Publisher.

Business Event Publisher Functions

In the Codeunit *6036532 trm Replication Handling*, there are Events available that can be used if you want to add your own AL Code during the Replication Process:

```
[BusinessEvent(false)]
local procedure Pf_OnAfterGetSubscriberRecord
(var publisherRecRef_par: RecordRef;
var subscriberRecRef_par: RecordRef;
var replicationSubscriber_par: Record "trm Replication Subscriber";
var stop_par: Boolean)
begin
end;
```

```
[BusinessEvent(false)]
local procedure Pf_OnAfterCopySubscriberRecord1
(var publisherRecRef_par: RecordRef;
var subscriberRecRef_par: RecordRef;
var subscriberRecRefBefore_par: RecordRef;
var replicationSubscriber_par: Record "trm Replication Subscriber";
var found_par: Boolean;
var stop_par: Boolean)
begin
end;
```

```
[BusinessEvent(false)]
local procedure Pf_OnAfterCopySubscriberRecord2
(var publisherRecRef_par : RecordRef;
var subscriberRecRef_par : RecordRef;
var subscriberRecRefBefore_par : RecordRef;
var replicationSubscriber_par : Record "trm Replication Subscriber";
var found_par : Boolean;
var stop_par : Boolean)
begin
end;
```

```
[BusinessEvent(false)]
local procedure Pf_OnAfterInsertModifySubscriberRecord
(var publisherRecRef_par : RecordRef;
var subscriberRecRef_par : RecordRef;
var subscriberRecRefBefore_par : RecordRef;
var replicationSubscriber_par : Record "trm Replication Subscriber";
var found_par : Boolean)
```

```
begin  
end;
```

```
[BusinessEvent(false)]  
local procedure Pf_OnBeforeDeleteSubscriberRecord  
(var subscriberRecRef_par : RecordRef;  
var replicationSubscriber_par : Record "trm Replication Subscriber";  
var stop_par : Boolean)  
begin  
end;
```

```
[BusinessEvent(false)]  
local procedure Pf_OnAfterDeleteSubscriberRecord  
(var subscriberRecRefBefore_par : RecordRef;  
var replicationSubscriber_par : Record "trm Replication Subscriber")  
begin  
end;
```

```
[BusinessEvent(false)]  
local procedure Pf_PreTableReplicate  
(var replicationSubscriber_par: Record "trm Replication Subscriber";  
var replicationPublisherLine_par: Record "trm Replication Publish Lines"; var stop_par:  
Boolean)  
begin  
end;
```

```
[BusinessEvent(false)]  
local procedure Pf_PostTableReplicate  
(var replicationSubscriber_par: Record "trm Replication Subscriber";  
var replicationPublisherLine_par: Record "trm Replication Publish Lines")  
begin  
end;
```

```
[BusinessEvent(false)]  
local procedure Pf_PreReplicate  
(var replicationSubscriber_par: Record "trm Replication Subscriber")  
begin  
end;
```

```
[BusinessEvent(false)]  
local procedure Pf_PostReplicate  
(var replicationSubscriber_par: Record "trm Replication Subscriber")  
begin  
end;
```