
Data Modeling Studio 10.0.39.34

Release Notes

Table of Contents

1.	Introduction	5
1.1	Purpose	5
1.2	Audience	5
1.3	Release information	5
1.4	Supported Languages.....	6
1.5	Security	6
1.6	Compatibility with other solutions.....	6
1.7	License Coverage	6
1.8	Upgrade from earlier versions	6
1.9	SHA256 algorithm for licenses	7
2.	What's New	8
2.1	Azure key vault support for connection string.....	8
2.2	Batch job to clear CDPLog table	9
2.3	Common library	9
3.	Bug Fixes	11
3.1	Release 10.0.39.34.....	11
4.	Previous release bug Fixes	12
4.1	Release 10.0.37.32.....	12
4.2	Release 10.0.35.31.....	12
4.3	Release 10.0.33.30.....	13
4.4	Release 10.0.32.28.....	13
4.5	Release 10.0.31.27.....	13
4.6	Release 10.0.30.26.....	14
4.7	Release 10.0.30.25.....	14
4.8	Release 10.0.29.24.....	15
4.9	Release 10.0.28.23.....	16
4.10	Release 10.0.27.22.....	16
4.11	Release 10.0.26.21.....	16
4.12	Release 10.0.25.20.....	17
4.13	Release 10.0.24.19.....	17
4.14	Release 10.0.23.18.....	17
4.15	Release 10.0.22.17.....	18

4.16	Release 10.0.21.16.....	18
5.	Breaking changes.....	19
6.	Known Issues.....	20
7.	Discontinued features.....	22

Document Information

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1. Introduction

1.1 Purpose

This document describes the new functionality developed for Data Modeling Studio 10.0.39.34 for Dynamics 365 Finance and Operations 10.0.36 and above.

The purpose of this release is:

Topic	Yes/ No	Remarks
New Related Product	No	
Upgrade to new Microsoft release	Yes	
New features	Yes	<ul style="list-style-type: none">• Azure key vault support for connection string• Batch job to clean-up CDPLog table
New D365 functional topics considerations	No	
Bug fixes	Yes	
Discontinued features	Yes	

1.2 Audience

The audience for this document is certified partners selling and implementing as well as customers who have bought the solution.

1.3 Release information

Data Modeling Studio 10.0.39.34 is released on the following Dynamics 365 Finance and Dynamics 365 Supply Chain Management build.

Release date [TI-Product]	[TI-Version number]	Minimum required D365 version	Validated against D365 version	Compatible with D365 version
26/02/2024	10.0.38.33	10.0.36	10.0.38	10.0.36 and above
11/04/2024	10.0.39.34	10.0.36	10.0.39	10.0.36 and above

At To-Increase we continuously investigate how to improve the user experience of our products; therefore, we will collect application usage data ('telemetry data') from our applications. We will anonymize any personal data and therefore will only use data which cannot be related to individual persons for this purpose. Furthermore, we will delete the telemetry data from our systems after 12 months. If you would like to opt-out, please contact us.

1.4 Supported Languages

Data Modeling Studio 10.0.39.34 is only available and supported in English (EN-US) Language, any other available language is not supported and needs to be maintained by either the partner or the customer.

1.5 Security

Data Modeling Studio 10.0.39.34 delivers the below set of duties for the entire Data Modeling Solution and we assure that any pre-configured roles work in combination with standard Dynamics 365 Finance and Dynamics 365 Supply Chain Management roles and security.

Role name
CDPChiefDataOfficer
CDPDataSteward
CDPMasterDataAssistant
CDPMasterDataManager
CDPPluginAdmin

1.6 Compatibility with other solutions

Data Modeling Studio 10.0.39.34 is compatible with all To-Increase solutions/products for Dynamics 365 Finance and Operations Supply Chain Management 10.0.36 or higher, however it will require separate licenses and deliverables.

1.7 License Coverage

Data Modeling Studio 10.0.39.34 is governed by DMS license that control access to specific functions and features.

1.8 Upgrade from earlier versions

Refer to installation guide for more details.

1.9 SHA256 algorithm for licenses

You may have already been informed by Microsoft, that licenses that are generated using the SHA1 algorithm will no longer be supported starting at Microsoft Dynamics 365's F&SCM version 10.0.39. This update will be generally made available by Microsoft on March 15th 2024.

As we currently use the SHA1 algorithm for our licenses, there is an action for you to take to ensure you can continue using our services. We introduce the new SHA256 algorithm for our licenses, which will be supported going forward by Microsoft.

What do you need to do before updating to version 10.0.39?

1. Please go to the Solution Management Workspace in your F&SCM environment
2. Retrieve and install these licenses based on the SHA256 algorithm. You can find a guide on how to do that under [this link](#)

After retrieving and installing the new license, you can upgrade to version 10.0.39 without any interruptions to our services.

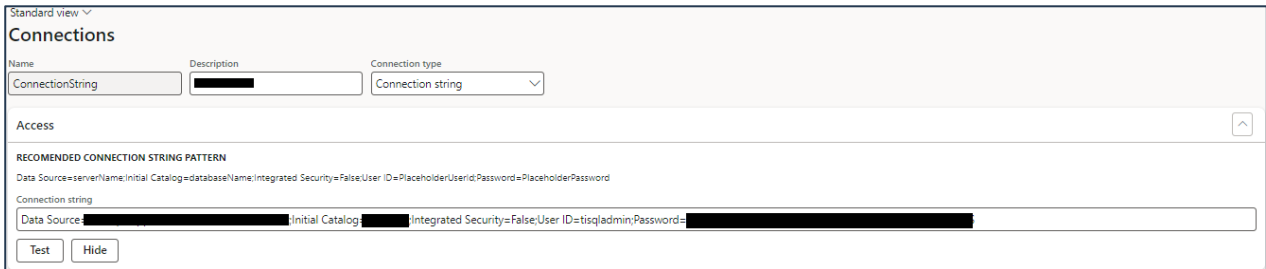
There should be no effect on any of your performance. In case you experience any effect, please reach out to us under customeroperations@to-increase.com.

2. What's New

2.1 Azure key vault support for connection string

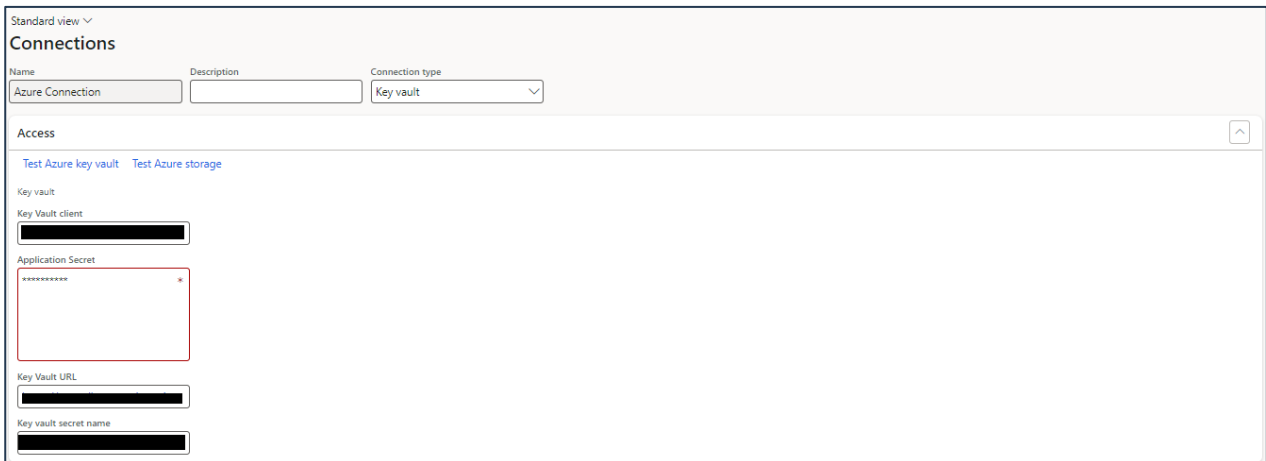
This enhancement will allow the user to create a connection string using Azure key vault. On the Connection string page of the data modelling studio application, a new field has been added named: **Connection type**. This drop-down field will have two options:

- Connection string: When the value is selected as *Connection string*, then user will need to populate the connection string of the BYOD database (Target database).



The screenshot shows the 'Connections' interface. At the top, there are three input fields: 'Name' (containing 'ConnectionString'), 'Description' (redacted), and 'Connection type' (a dropdown menu set to 'Connection string'). Below these is an 'Access' section with a 'RECOMMENDED CONNECTION STRING PATTERN' and a 'Connection string' input field. The pattern is 'Data Source=serverName;Initial Catalog=databaseName;Integrated Security=False;User ID=placeholder;Userid=Placeholder;Password=Placeholder;Password'. The 'Connection string' field contains 'Data Source=;Initial Catalog=;Integrated Security=False;User ID=tjzqladmin;Password=;'. There are 'Test' and 'Hide' buttons at the bottom.

- Key Vault: When the value of connection type field is selected as *Connection string*, then the application will allow the user to specify the following details for the connection string:
 - Key vault client
 - Application secret
 - Key vault URL
 - Key vault secret name



The screenshot shows the 'Connections' interface with the 'Connection type' dropdown set to 'Key vault'. The 'Access' section has links for 'Test Azure key vault' and 'Test Azure storage'. Under 'Key vault', there are four input fields: 'Key Vault client' (redacted), 'Application Secret' (a red-bordered text area with asterisks), 'Key Vault URL' (redacted), and 'Key vault secret name' (redacted).

2.2 Batch job to clear CDPLog table

This enhancement will allow the data modelling studio user to schedule a batch job which will delete the records from the CDPLogs table based on the *Log record retention (Days)* on the Metadata synchronization fast-tab of the data modelling studio parameters page.

On the click of **Refresh** button of the *Data Exchange Monitoring* page, application will prompt a pop-up which will allow the user to schedule the batch-job:

Cleanup CDPLog Table ?

Run in the background ^

Recurrence Alerts

Batch processing No

Task description

Batch group

Private No

Critical Job No

Monitoring category

Start date: 18/04/2024 (09:56:35) (GMT) Coordinated Universal Time

OK Cancel

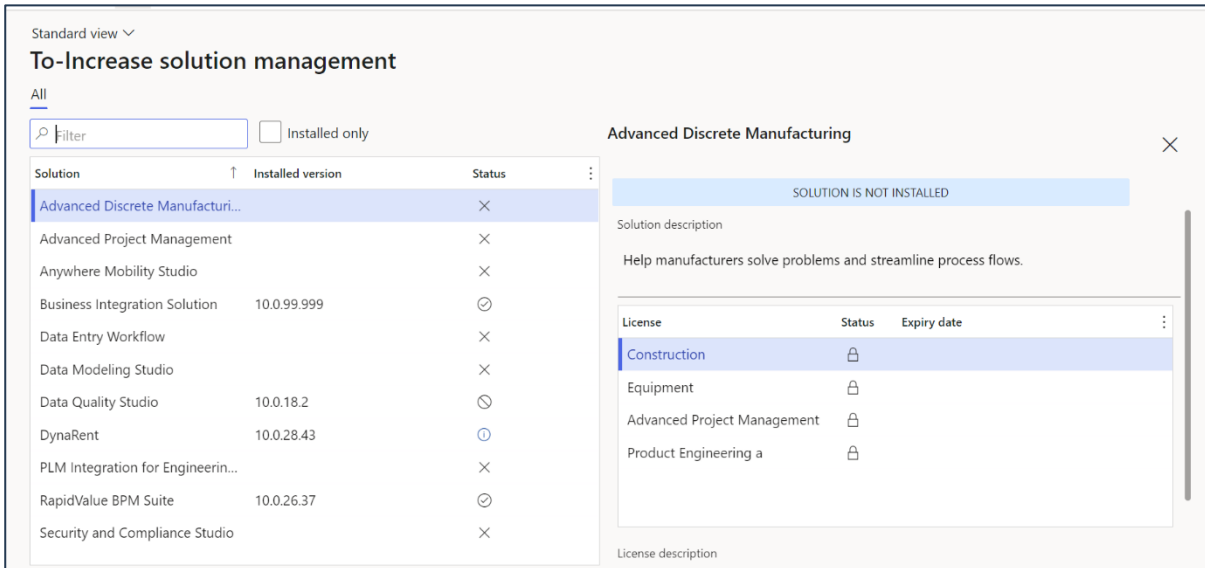
2.3 Common library

To-Increase is offering various add-on solutions. Some features and technical solutions are common or could be common for all our solutions on the Dynamics 365 Finance and Operations platform. As of November 2022, we have started leveraging a new common library model.

The common library model will be a centralized location where the new common features will be added automatically, and customers don't have to make an additional effort to update the build pipelines after the first enablement of this model.

ISV licensing is technically supported with a code signing certificate. The certificate we have to use expires every three years, next up for renewal in 2023. In the near future, our solutions will refer to this common model for the code signing certificate, instead of maintaining it separately in all our solutions.

Next to technical content, the common library comes with features which are beneficial to our customers. E.g., a Solutions Management dashboard gives a clear view of currently installed versions, status of license, option to renew licenses without any downtime, easy access to release notes and documentation, and the ability to leave feedback through the in-app feedback system.



On all To-Increase forms, there is on the left-top of the forms a smiley icon in the menu where you can provide us feedback, suggestions, and ideas so we can learn how improve our solutions.

?

To-Increase would love your feedback!

Please rate your experience in using the All solutions screen.

5 - Excellent
 4
 3
 2
 1 - Poor

Please tell us why you chose the rating. Additional insights would help us improve our products further.

Thank you for providing us feedback!

Your privacy is important to us. To protect your privacy, please don't include any personal information.

The telemetry (TAI) is included into common library (TCL). We are not going to deliver TAI separately anymore.

If multiple solutions provided by To-Increase are used, always pick the latest version of the common library. The common library version included in the current version is 1.0.0.57.

3. Bug Fixes

Below is the list of bug fixes included in **Data Modeling Studio 10.0.39.34** release.

3.1 Release 10.0.39.34

ID	Title	Description
182695	CS00227628, CS00226581: missing records	This bug fix will ensure that while exporting the data from AxDB to target database, the records must not be missed while exporting.
189319	CS00227419 Deprecated table	This bug fix will ensure that we are able to add IntraStat table as dataset in the application.

4. Previous release bug Fixes

4.1 Release 10.0.37.32

ID	Title	Description
173482	CS00226581 Change Tracking Issue	<p>This fix will ensure that while enabling change tracking on the child table, the application will prompt an error message if change tracking is not enabled on the parent table.</p> <p>Alternatively, if change tracking is enabled on the parent table, it's not mandatory to enable change tracking on the child table.</p>
174559	CS00226885 Error when validating dataset in DMS	<p>If we perform a Validate Dataset operation in the application and there are datasets which are imported in the application using DMS then the Validate dataset operation throws error.</p> <p>This fix will ensure that Validate Datasets operation must work properly even if there are datasets imported in the application using the Data Template feature of the application.</p>

4.2 Release 10.0.35.31

ID	Title	Description
162299	CS00223439: Missing records (again) in destination tables CDPGeneralJournalAccountEntryStaging and CDPGeneralJournalEntryStaging	<p>This fix will ensure that while performing the synchronization of the destination tables, the data are successfully synchronized and to ensure this, the metadata update has been disabled on the Data Exchange Monitoring page.</p>
169682	CS00225418: Missing Records	<p>This fix will allow the user to validate, analyse and synchronize a dataset record. <i>Validate</i> functionality will allow the user to compare the no. of records in AxDB and the BYOD.</p> <p><i>Analyse</i> functionality will identify the different records. User will be able to view these records on the <i>Analyse Details</i> pop-up.</p> <p><i>Synchronize</i> functionality will refresh the records for the selected dataset/entity and will ensure that the no. of records is same in AxDB and BYOD.</p>
171611	DataModel - Getting object reference not set to an instance of the object error when trying to open template in model form	<p>This fix will ensure that while loading a template on the Data Model page, the datasets must be populated successfully based on the details in the data template.</p>

4.3 Release 10.0.33.30

ID	Title	Description
163030	CS00223684: Truncate Table and Replication	On the Data Exchange Monitoring page, the Mode must be populated as Full Load if a Full Load is being performed for a dataset for which the data selection type is selected as Change Tracking.
169505	Entity Ledger is listed as managed and not as unmanaged	<p>In there is an entity and a dataset with same name, then application must make sure that while picking the dataset/entity, the correct selection must be populated in the Model.</p> <p>Note: All the managed dataset will not consider the prefix and suffixes anymore for the BYOD table names. Instead, it will consider the staging table name.</p> <p>If there is any managed entity in the data model, then Update Metadata must be performed and data model must be re-deployed.</p>

4.4 Release 10.0.32.28

ID	Title	Description
155514	CS00221193 Bug in 10.0.25.20 for EntityExportStatus table	This bug fix will ensure that once the data export is completed for a dataset/ data entity, then the value of Status column in the EntityExportStatus table for the dataset/data entity must be "Inactive".

4.5 Release 10.0.31.27

ID	Title	Description
160193	EntityExportStatus - When changing Entity Prefix and Entity suffix in Parameters, LastExportDateTime, Lastexecutionid are not updated in BYOD on export	<p>If the EntityExportStatus parameter is enabled in the Matadata section of the Parameter screen, then after the Export of deploy is completed then CDPEntityExportStatusStaging table will be updated with the latest export details.</p> <p>Additionally, when the Entity Prefix and Entity Suffix are updated in the application on the Parameter screen and the export is performed then the EntityExportStatus table will be updated with the latest export details</p>
161180	CS00222966 Bug in EntityExportStatus table in LASTEXPORTDATETIME field	All the date time fields captured in the EntityExportStatus table will be captured in yyyy-MM-dd format.
162139	CS00223578 FW: Missing field. Some of the array fields are missing in the export	All the fields selected in the DataSet or the data model, including the array fields, must be exported in the BYOD database.

152867	Model export - if one of the entities is failing to export, the rest are not exported anymore	The fix will ensure that even if the export fails for one data entity, the application will continue to export the data of other entities as well unless the application has attempted the export for all the data entities in the Data Model.
162298	CS00223625 FW: missing 'Entity'	This is a data specific issue. Sometimes while adding the data entities to the Data Model, the Entity name doesn't appear in the grid. A new script named "Deletion of blank entity names" has been added which will remove the data entities without the entity name.
150296	when adding datasets to the model, the entity name should be the datasets name	This fix will ensure that while adding a dataset to the data model, the entity name must be same as the dataset name. A script has been added in the "Maintenance" fast tab of Parameter page, named: <i>Correct Model Unmanaged Entity Name</i> . This script will ensure that the historical data for the data models is also updated. Note: This script needs to be executed mandatorily for this upgrade.

4.6 Release 10.0.30.26

ID	Title	Description
161097	CS00223336: Second Exports with Change Tracking gives error - Still Bad	While perform the export for the second time with Change Tracking enabled for the datasets, application used to throw error. This issue has been fixed.
138747	CS00191919: Cannot create record in Dimensions (CDPDimensions)	A new maintenance script has been added in the maintenance section of the Parameter screen named as ' <i>Remove Dimension Combination</i> '. This script will clear the records from CDPDimensions and CDPDataModelDimensions tables that are not linked to a model

4.7 Release 10.0.30.25

ID	Title	Description
153443	CS00195503: Dimension (Financial dimension /CDP Dimension) is not getting updated correctly	While importing the data in Dynamics using the Entity from the Legacy system application from external application and the client uses the custom mechanism to create the dimensions, then DMS was not able follow the scenario and create the dimension.

		To fix this issue, the create dimension logic has been moved from the form level to table level.
154001	CS00222326: Second Exports with Change Tracking gives error	If the change tracking is enabled for any dataset in a data model and the field prefix is not specified then application throws error while Exporting the data and export is not successful. This issue has been fixed.

4.8 Release 10.0.29.24

ID	Title	Description
149694	Export Export groups together with Model templates	When generating templates from Model form, export groups will be exported together with the templates. If a new model is created and the template is imported, the Export groups will be created on the new model
151521	Std entity - CT enabled - Updated records in Ax are exported as new records to BYOD	When records are updated on F&O tables and data is exported via DMS using standard data entities, updated data will be updated in the BYOD tables
152192	Parameters - Suffix field is not defaulted when the table is initialized	On a new system, Suffix field from Parameters form should be defaulted with "STAGING" keyword
149696	Data set - when disable CT is not disabled on the SQL table	When enable/disable CT on the dataset, it should be reflected on the SQL table
146440	Model - Deprecate Integration for Model type	Due the fact that Integration value available in Model type field is having no business value at the moment, it will be disabled. Removing the property will have no impact over the solution. Customers will be asked to run Update Model type from integration to self-service script from Maintenance tab, Parameters form
152407	Data model - product should not support exporting std composite entities	When adding entities to the model composite entities should not be displayed in the entities list
152292	Data sets - users should not be allowed to create a datasets based on staging tables	When creating datasets, staging tables that are used when creating standard entities will not be displayed in the ax tables list.
152460	Enable change tracking in BYOD tables for self-service deploy type	CT will be enabled on BYOD tables when deploying a self-service model

4.9 Release 10.0.28.23

ID	Title	Description
146313	Export is not working for Std Entities with CT enabled	Standard data entities with change tracking enabled are supported when exported from an unmanaged model.
146798	CS00221817: Validate Data Model is throwing an error	A non-existing entity was checked if it was existing on BYOD. The entity name was created just from the prefix and suffix values.
147729	Getting object reference not set to an instance of an object error when am trying to add all (managed+unmanaged) data entities using Add Multiple	When multiple standard entities and data sets are added to the model from Add multiple dialog an error message was displayed blocking adding some of the entities.

4.10 Release 10.0.27.22

ID	Title	Description
138495	Errors when deploying/exporting a data model (invalid column names)	On the model level, when adding multiple datasets, fields were piled up from the previous entities on the current entity. It will require a manual step from the end user, if the error comes out, all data entities can be removed and added again on the model, this will restore the fields.
145207	CS00221308 CS00206838 - 10.0.25.20 - Browse button works only with system administrator role	In the Dataset Browse button was working just for System Administrator role. Fix will make field enabled for DMS security roles
143944	Remove generate std entity from a dataset functionality	Remove the functionality that will generate a zip folder with the std entity technical xml files.
143414	- CS00216616 Field scale does not fit actual size when exporting with DMS	Real number decimals are defaulted with value 6 in SQL. There are scenarios, like LineNum field, that is having 16 digits decimals on the real field. Fix will handle the scenarios when number of decimals are different.

4.11 Release 10.0.26.21

ID	Title	Description
143865	CS00218082 Error while importing templates	While importing the templates in the data set form is complaining about dataset history
134219	[Dataset]- On the data set page, 'group' field is not extremely useful	'Group' column at the data set level is hidden now to keep the end user experience simple.

131152	Processing form - Up Down button update/fix	Under the pre and post processing scripts, the up/down button capabilities have been revised for a better experience.
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4.12 Release 10.0.25.20

ID	Title	Description
139248	CS00205408 Data Modeling Studio 10.0.23.18 lacks security setup on several menu items	Improvements on DMS Roles and user access
141216	EntityExportStatus table is created on BYOD even though parameter field is disabled	Internal bug fixed

4.13 Release 10.0.24.19

ID	Title	Description
138770	CS00197755 Export processing type identification	Identification of the actual type of data export in Processing grid of the Data Exchange Monitoring form based on SQL Event in Mode field: <ul style="list-style-type: none"> • Full • Incremental • Timestamp
126366	CS00155998 DIS Framework error: Incomplete data due to overlap with export	Solved with improvements on Validate, Analyze, Synchronize options in Data Exchange Monitoring form
137532	CS00197755 Dynamic Entity Export Bulk Insert Issue	Solved with improvements on Validate, Analyze, Synchronize options in Data Exchange Monitoring form
128758	CS00180174 Batch Job Management	Possibility to update Export batch jobs statuses independently from the Model

4.14 Release 10.0.23.18

ID	Description
127641	CS00177211 Missing columns createdTransactionId
130844	CS00185743 Model Connection string
131605	CS00188026 SOP (Standard Operating Procedure) when updating to new D365FO update
131607	CS00187905 Cleaning out the processing / data logs
134236	CS00192379 CDPR-2.02: Fails to create QUERY output
133168	CS00190180 Sorting issues in Calendar dimension in cubes

4.15 Release 10.0.22.17

ID	Description
NA	Defects identified as part of internal testing have been fixed as part of DMS Continuous improvement programme
New Product Launch	Analytics for ECM (Note: It does not impact any existing DMS customers.)

4.16 Release 10.0.21.16

ID	Description
NA	MS Updates - We have fixed the identified PEAP issues for DMS to be compatible with MS Update 10.0.21
NA	Defects identified as part of internal testing have been fixed as part of DMS Continuous improvement programme
New Feature	To improve usability of the product, we have revamped the Data Set page/form and are launching it in Preview mode.

ID	Description
125280	Timeout issue on large tables prevents export of data
125703	Mismatch in batch job status and DIS export status
125702	Processing log table not updated correctly when using groups in data models
123606	Change tracking delete sync issue

Updates from prior releases, i.e. releases before 10.0.21.16 can be found in older release notes.

5. Breaking changes

Integration value used in **Models** form is removed from field **Model type**. Customers that are using **Integration** value, will have to use **Self-Service** value of they can run the script from **Parameters** form, **Maintenance** tab: **Upgrade model type**.

Standard view ▾
Parameters

Entity creation
Data export
Metadata synchronization
Master data
Security
Maintenance
Licensing

Maintenance
Run selected script Run all scripts Refresh

<input type="radio"/> Maintenance Script	Description	Method name	↑ Introduced version
<input checked="" type="radio"/> Upgrade data model fields	Update data model fields	updateDataModelFields	1.1.1.0
Upgrade data selection value	Update data selection value based on change tracking data	updateDataSelection	1.1.0.0
Upgrade dimensions script	Update dimension script	updateDimensions	10.0.16.7
Upgrade model deploy type	Update model deploy type from integration to self service	updateModelDeployType	10.0.28.24
Upgrade post processing script	Update post processing script	updatePostProcessingScript	1.1.0.2
Upgrade post processing script	Update post processing script	updateStagingEntitySuffixScript	10.0.25.20

A script has been added in the “Maintenance” fast tab of Parameter page, named: *Correct Model Unmanaged Entity Name*. This script will ensure that the historical data for the data models is also updated.

Note: This script needs to be executed mandatorily for this upgrade. This is applicable while upgrading the application to version 10.0.31.27

A script has been added in the “Maintenance” fast tab of Parameter page, named: *Update Model Unmanaged Entity Name similar to dataset*. This script will ensure that the historical data for the data models is also updated.

Note: This script needs to be executed mandatorily for this upgrade. This is applicable while upgrading the application to version 10.0.32.28

6. Known Issues

Below are reported known issues, to be corrected in an upcoming release.

ID	Description
1	<p>In version 10.0.35.31, multilingual support has been introduced, however there are some labels in the application which are still not translating into any language other than English. Below is the list of labels which are not translating:</p> <ul style="list-style-type: none"> • DataSet Page: <ul style="list-style-type: none"> ○ Online help ○ Type ○ Index ○ Edit ○ New ○ Delete • Data Modelling Page <ul style="list-style-type: none"> ○ Deploy ○ Edit ○ New ○ Delete ○ Model Type ○ Dimensions ○ Schema ○ Fields ○ Schedule • Data Template and Transformations: <ul style="list-style-type: none"> ○ Upload ○ Download ○ Online help • Data Exchange Monitoring <ul style="list-style-type: none"> ○ Dashboard ○ Online help ○ Context ○ Status • Connection String Page <ul style="list-style-type: none"> ○ Online help ○ Test • Parameter Page (Complete Page) <p>This translation issue will be resolved in the upcoming release on DMS.</p>

Disclaimer:

Microsoft is continuously adding new features in the application directly and via Feature Management. Sometimes these are public preview and will be made available in future releases, in other cases, they are already general available, and you have the choice to activate them. Currently, we are not testing compatibility with all new features or combinations. Once a feature is enabled at the customer environment and in case of any issues or questions related to new standard features and our solutions, kindly contact us via To-Increase support.

7. Discontinued features

Below is the list of features which has been discontinued in 10.0.37.32 release.

Description	Additional Information
Managed Mode	<p>The following section has been deprecated from the <i>Data Export</i> fast tab of the Parameters page:</p> <ul style="list-style-type: none"> DMF Templates DMF Execution DMF Export Projects <p>Note: There is a script named <i>Update data model mode to unmanaged</i>, that need to be executed from the Maintenance fast tab of the Parameter page to remove the above mentioned options.</p>

Below is the list of features which has been discontinued in 10.0.30.25 release.

Description	Additional Information
Master Data Profiles	The Master data profiles functionality has been disabled. The impact will be that on the Parameters form, Master Data tab is deprecated. DMS buttons will be deprecated from the standard forms: All customers, All vendors, Employees, Released product details.
Filter column	The filter column available on the Data Model form for the data sets has been disabled. This feature can be enabled by TI Care team, if needed by the end users.

Note:

- BAS packages will be removed from the DMS package in the next version (Scheduled in Apr-2024) and hence the size of the package will be reduced.
- Licensed customers will still be able to download the BAS packages from LCS.