
Data Modeling Studio 10.0.32.28

Release Notes

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Document Information

| | |
|----------------|---------------------------------|
| Title | Data Modeling Studio 10.0.32.28 |
| Solution Suite | Data Modeling Studio |
| Category | Release Notes |
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1. Introduction

1.1 Purpose

This document describes the new functionality developed for Data Modeling Studio 10.0.32.28 for Dynamics 365 Finance and Operations 10.0.29 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 | |
| New D365 functional topics considerations | No | |
| Bug fixes | Yes | Internal bug fixes and support issues |
| 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 10.0.32.28 is released on the following Dynamics 365 Finance and Dynamics 365 Supply Chain Management build.

| Installed build version | Platform build version | Remarks |
|---|--------------------------|---|
| Microsoft Dynamics 365 Finance and Microsoft Dynamics 365 Supply Chain Management 10.0.29 | Platform update update51 | Please bookmark this website to get informed about backwards compatibility; |

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 10.0.32.28 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 10.0.32.28 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 10.0.32.28 is compatible with all To-Increase solutions/products for Dynamics 365 Finance and Operations Supply Chain Management 10.0.29 or higher, however it will require separate licenses and deliverables.

1.7 License Coverage

Data Modeling Studio 10.0.32.28 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.

2. What's New

2.1 Long Running Operation Handling

This enhancement will ensure that while performing a long running operation, which includes the following:

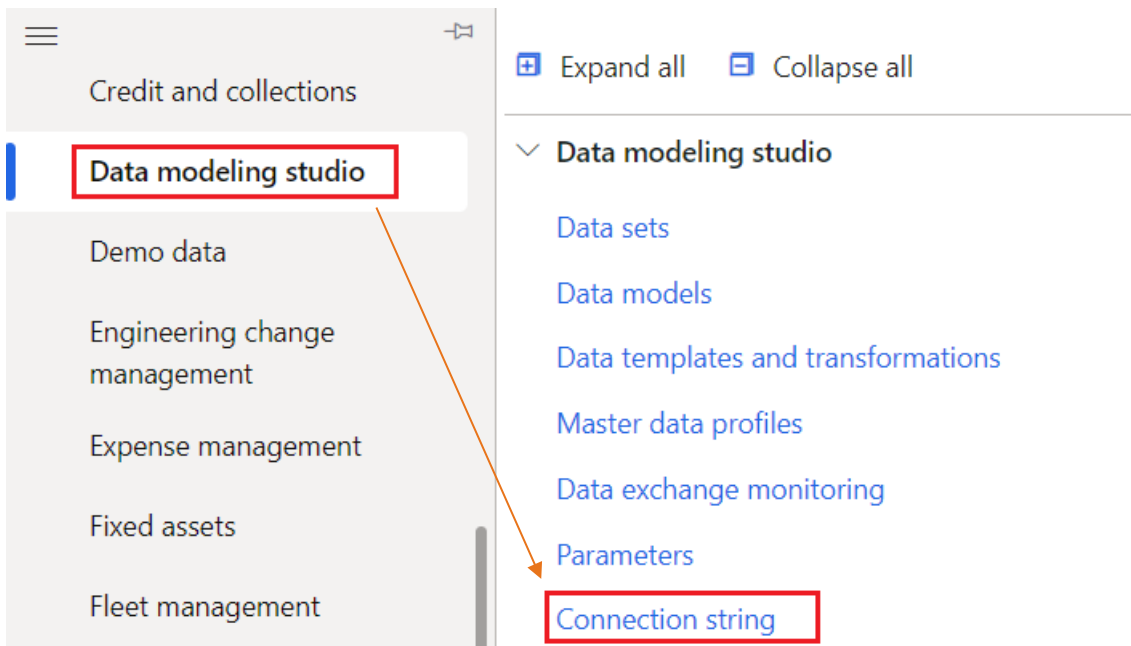
- Deploy Operation
- Export Operation from Data Model page
- Refresh on Data Exchange Monitoring page

Application must ensure that there must be a warning message to the user before the operation is proceed. Application will allow the user to confirm that the user want to proceed with the operation and is willing to wait for the operation before proceeding to other dependent activity.

Application will also make sure that there is a time lapse pop-up on the screen which must stay on the screen while the operation is in progress.

2.2 Connection String Management

This enhancement will allow a System Administrator or DMS administrator user to configured the connection string on the Connection string management page, which will appear under "Data Modeling Studio" section on DMS.



The connection string page will allow the user to specify a new connection string. For each connection string, user will need to specify the following details:

1. Name: This field will allow the user to specify the connections string name.
2. Description: This field will allow the user to specify a short description about the connection string.
3. Connection String: This field will allow the user to specify the connection string for the BYOD database.

The screenshot shows a form titled "Connections". It has two input fields: "Name" (with a red asterisk) and "Description". Below these is a section titled "Access" containing a "RECOMENDED CONNECTION STRING PATTERN" (note the typo) and a "Connection string" field with a masked password. At the bottom of the "Access" section are "Test" and "Show" buttons.

The **Test** button on the Connection String page will allow the user to validate the connection string specified.

Note:

1. There is a new script named as *Create existing data model connection string and update mapping* added on the *Maintenance* fast-tab of the Parameter page. This script must be executed following this upgrade.
2. For the existing data models, a connection string has been added for each data model on the Connection String page. So, if there are 10 data models in the application then 10 connection string will be created for each connection string in the data model, regardless if the connection string are same or different. Name of each connection string is same as the data model name.
We request the customer to clean the connection string page by removing the duplicate connection string and updating the mapping of the existing data models and connection strings.

The existing field to specify the connection string directly on the *Data Model* page will be removed and it will be replaced by a drop-down. This drop-down will allow the user to pick the connection string from the list of connection strings configured on the *Connection String* page.

The screenshot shows the "New Record" page for "Data models". It has a "Standard view" dropdown. The page is divided into several sections: "General" (with sub-sections: Unmanaged, Staging, RAW), "IDENTIFICATION" (Name, Description, Origin), "MODEL" (Mode, Model type, State), "DESTINATION" (Schema), "METADATA" (Application metadata, Processing metadata, Data model metadata), and "SCHEDULE" (Schedule by entity group, Schedule full load). A "Connection string" field with a masked password and "Test" and "Show" buttons is highlighted with a red border. The text "Old Design" is written in green below the field.

Data models | Standard view

New Record

Unmanaged | Staging | RAW

| IDENTIFICATION | MODEL | DESTINATION | METADATA | SCHEDULE |
|-------------------------------------|-----------------------|---|---|--|
| Name <input type="text"/> | Mode Unmanaged | Schema RAW | Application metadata <input checked="" type="checkbox"/> Yes | Schedule by entity group <input type="radio"/> No |
| Description <input type="text"/> | Model type Staging | Connection string <input type="text"/> | Processing metadata <input checked="" type="checkbox"/> Yes | Schedule full load <input type="radio"/> No |
| Origin D365FOE | State Defined | New Design | Data model metadata <input checked="" type="checkbox"/> Yes | |

An authorized user (System Administrator or DMS administrator) will also be able to navigate to the *Connection String* page by clicking on the connection string name.

2.3 Common library

To-Increase is offering various different add-on solutions. Some features and technical solutions are common or could be common for all of our solutions on the Dynamics 365 Finance and Operations platform. As of November 2022, we have start 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 is expiring 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.

Standard view

To-Increase solution management

All

Installed only

| Solution | Installed version | Status |
|-----------------------------------|-------------------|--------|
| Advanced Discrete Manufacturi... | | × |
| Advanced Project Management | | × |
| Anywhere Mobility Studio | | × |
| Business Integration Solution | 10.0.99.999 | ☑ |
| Data Entry Workflow | | × |
| Data Modeling Studio | | × |
| Data Quality Studio | 10.0.18.2 | ☑ |
| DynaRent | 10.0.28.43 | ⊕ |
| PLM Integration for Engineerin... | | × |
| RapidValue BPM Suite | 10.0.26.37 | ☑ |
| Security and Compliance Studio | | × |

Advanced Discrete Manufacturing

SOLUTION IS NOT INSTALLED

Solution description

Help manufacturers solve problems and streamline process flows.

| License | Status | Expiry date |
|-----------------------------|--------|-------------|
| Construction | 🔒 | |
| Equipment | 🔒 | |
| Advanced Project Management | 🔒 | |
| Product Engineering a | 🔒 | |

License description

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 10.0.0.41.

3. Bug Fixes

Below is the list of bug fixes included in **Data Modeling Studio 10.0.32.28** release.

3.1 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 <i>Status</i> column in the <i>EntityExportStatus</i> table for the dataset/data entity must be "Inactive". |

4. Previous release bug Fixes

4.1 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' | <p>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.</p> <p>A new script named "Deletion of blank entity names" has been added which will remove the data entities without the entity name.</p> |
| 150296 | when adding datasets to the model, the entity name should be the datasets name | <p>This fix will ensure that while adding a dataset to the data model, the entity name must be same as the dataset name.</p> <p>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.</p> <p>Note: This script needs to be executed mandatorily for this upgrade.</p> |

4.2 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 |

4.3 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. |

4.4 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 |

4.5 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. |

4.6 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. |

4.7 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. |

4.8 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 |

4.9 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 |

4.10 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 |

4.11 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.) |

4.12 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 | Maintenance |
|--------------------------|---|
| Data export | Run selected script Run all scripts Refresh |
| Metadata synchronization | <input type="radio"/> Maintenance Script |
| Master data | <input checked="" type="radio"/> Upgrade data model fields |
| Security | Upgrade data selection value |
| Maintenance | Upgrade dimensions script |
| Licensing | Upgrade model deploy type |
| | Upgrade post processing script |
| | Upgrade post processing script |

| Description | Method name | Introduced version |
|---|---------------------------------|--------------------|
| Update data model fields | updateDataModelFields | 1.1.1.0 |
| Update data selection value based on change tracking data | updateDataSelection | 1.1.0.0 |
| Update dimension script | updateDimensions | 10.0.16.7 |
| Update model deploy type from integration to self service | updateModelDeployType | 10.0.28.24 |
| Update post processing script | updatePostProcessingScript | 1.1.0.2 |
| 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.

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.

6. Known Issues

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

| ID | Description |
|----|-------------|
| | |

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 10.0.30.25 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. |