Release Notes NET 15.0 (English)

Summary

The NET 15 release brings numerous improvements in stability, usability, and integration across the NET Design, NET Engineering, and NET Operations modules.

The following new features are particularly noteworthy:

- **Autodesk AutoCAD Map 3D 2026** is now fully supported.
- Comsof Fiber 25.1 is now supported. POP sites are now connected via **transitions** instead of entry routes, introducing a new route type called “POP Transition.”
- The **data model has been extended** to manage **fiber ONTs**. These can be assigned to buildings or building units and linked to couplers.
- The **new CO overview**, introduced with NET 14.3, has been further enhanced. It can now also be generated from splice closure forms, includes a progress indicator during export, and loads large projects significantly faster.
- The **general import** now supports **relations during data synchronization**, greatly simplifying the integration and updating of external data.

In addition to these highlights, numerous detail improvements have been implemented — ranging from new UI elements, extended import options, and optimized workflows to improved performance and bug fixes in Map3D 2024–2026.

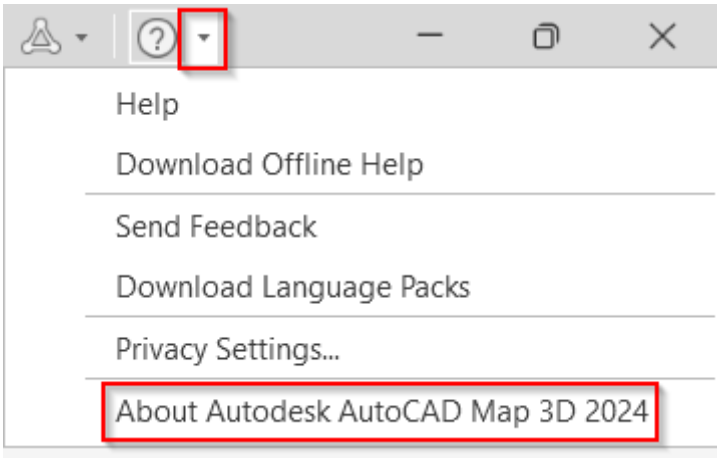
Supported Software

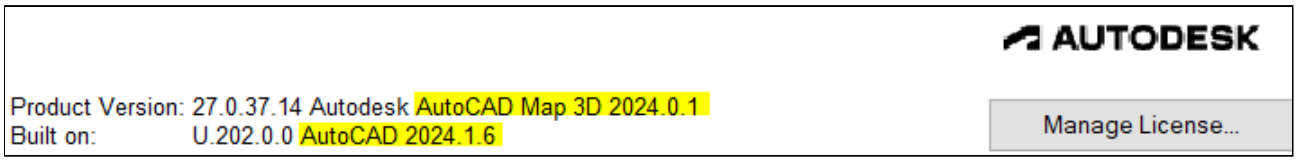
- Autodesk AutoCAD Map 3D
  - Autodesk AutoCAD Map 3D 2024.0.1 - Autodesk AutoCAD 2024.1.8
  - Autodesk AutoCAD Map 3D 2025.0.2 - Autodesk AutoCAD 2025.1.3
  - Autodesk AutoCAD Map 3D 2026.0.2 - Autodesk AutoCAD 2026.1
- TKI PostgreSQL Provider 4.2.1 and later
- Comsof Fiber Designer 2019.2.2 - Comsof Fiber Designer 22.2
- Comsof Fiber 23.1 - Comsof Fiber 25.1
- atesio STRATEGIC 2020 - 2024
- TKI Lizenzierung 14.0
  (Only required for a manual installation on the network license server)

The specified versions for Autodesk AutoCAD and Map 3D are the ones for which NET was developed. Generally, newer versions can also be used. However, there have been occasional updates in the past that caused crashes in NET.

Note on the AutoCAD Map 3D versions
Please note the minimum required versions of Autodesk AutoCAD Map 3D for the operation of NET 15.0. The version for Autodesk Map 3D 2024 has been updated since NET 14.3. The patched version is required for NET to work correctly.

Please check your installed AutoCAD Map 3D version and pay attention to these two version details when doing so:





Release NET 15.0 in Detail

General

Documentation Pack

- When generating the cable jointing diagram using the DocPack, the blocking message is no longer displayed.
- The secondary viewport now correspond to the highlighted map section in terms of rotation.
- Texts and tooltips in the DocPack interface have been revised to improve clarity and consistency.

NET Design

Import

- The handling of special attributes (number of WE/GE) during import into NET Design has been improved. Empty values are now pre-filled with 0. Values that cannot be converted are now listed in the log.
- The cluster selection in the OSM, Infas, and DeepUp import has been unified.

Comsof Fiber Integration

- The new version Comsof Fiber 25.1 is now supported. The main change is that CO points are now connected via transitions instead of lead-in trenches. For this purpose, the new trench class “Central Office Transition” has been introduced.
- Fixed a bug that caused an exception during Comsof calculation when a structure had no geometry.
- Fixed a bug where the duct type constraint of a possible trench with the class ‘Introductory Trench’ was always given a fixed value ‘DUCT_CLASS’.

Low level design

- As part of the conversion from NET Design to NET Engineering, fittings are now also created for microducts that do not contain any cables. The prerequisite for this is that exactly two duct bundles with the same number of microducts are connected to each other at the corresponding point. The fittings will be created with the status value that belongs to the ‘higher’ phase.

NET Engineering

General

- During the structure update, the column FID_CONNECTOR will be removed from the table TC_TG_BUILDING_UNIT.
  If the removal of this column fails, it is usually due to existing dependencies or objects that still reference this column. In this case, any dependencies or referencing objects should be identified and removed. Afterwards, the structure update can be executed again.
- Expansion of the data model to include tables and forms for managing fiber optic ONTs.
  Fiber optic ONTs can now be assigned to buildings or building units and linked to supplying connectors.
- It is now possible to document entry grids for structures, which make pipe entries easier to assign.
- New UI elements are now available for configuring node names in tree views. These elements provide enhanced support by offering context-sensitive suggestions when resolving relations to domain table entries or other features.
- Added a new domain table for status categories and established links between the existing statuses and the new categories.
- When uploading documents to NET Cloud, the original file path is now also added to the “Commentary” field.
- In the NET options, an automatic update of segment-occupancy texts can now be activated. When enabled, the segment-occupancy text of a segment will be updated whenever the content of the referenced elements changes.
- Support for Cyclorama integration has been extended to AutoCAD Map 3D 2025 and newer.
- In NET Engineering with Map3D 2025 and above, the text input fields under 'Options' → 'Tree Views' were no longer displayed. This issue has been resolved. The fields are now fully visible again and can be used as expected.
- Fixed a bug that caused AutoCAD Map 3D 2025 to print a square symbol at the end of each label text for duct tap- and segment content labels.
- AutoCAD Map 3D no longer crashes when the label collision resolution is unavailable.
- A bug was fixed that caused the structure update to fail when both the TKI NET Engineering Basis-Datenmodell and Interface Electric modules were selected.
- In AutoCAD Map 3D versions 2024 to 2026, certain images (e.g., in forms) were not displayed correctly. The issue has been resolved.
  - For the user who performed the installation, the images are available immediately.
  - Other users need to log out and back into Windows once to make the images available.

Import

- When importing from Excel, the list of target feature classes is now filtered based on the geometry column selection.
- The protocol file is now automatically opened after saving.

- The labels of the geometry columns in the CSV and Excel import have been improved.
- The input field for numbers and decimals in the filter conditions has been revised: It now validates entries more reliably and prevents invalid formats (e.g., letters or multiple decimal separators). This improves data entry and minimizes errors in filter definition.
- The general import has been extended with additional attribute filters (“Text”, “Number”, “Date”, “Yes/No”). The previous attribute filter has been renamed to “Attribute filter (Auto)”.
- Relations can now also be used for data matching in the general import.
- The DeepUp import is now included as a predefined, non-configurable import in the general import selection window.
- The validation of the attribute assignments has been extended to now check whether at least one attribute from the source data is selected.
- An optimized attribute order has been defined for the target feature class “Building” in NET Engineering for attribute assignments in the general import.
- When importing from Geopackage, the list of target feature classes is now filtered according to the geometry type of the selected table.
- A bug was fixed when loading the template that caused a warning to be shown for a valid feature class.
- A bug was fixed in the general import that caused mandatory attributes to be deselected when switching from “Update data records” to “Import data records”.
- A bug was fixed in the general import that caused the validation to not be reset after changing the file.
- A bug was fixed in the general import that caused mandatory attributes in PG documents to not be correctly identified.
- Name of the Target attribute is displayed correctly in the Excel log results for General Import
- An info message now appears if the data preview in the general import cannot be displayed.
- A bug was fixed that caused the import process to abort when processing incomplete data. Such records are now documented in the protocol and skipped.

Workflows

- With this version, you have access to a completely newly developed house connection wizard, which significantly simplifies the planning and documentation of fiber optic house connections, supports typical workflows, and reduces sources of errors. This development also forms the basis for migrating and further improving the FTTx planning wizard to this modern foundation in the future.
  Based on support feedback, numerous bugs have been fixed and processes optimized.
- The user interface for the “Create breakdown (from connector)” and “Create breakdown (from pin)” workflows has been completely redesigned and optimized.
- In the new feature selection in the various workflows, it is now possible to select ducts and cables from the segment cross section. In addition, the features are now highlighted on the map and in the segment cross section.
- As part of the new feature selection, only those features that can actually be selected are now selectable in the assignment overview of the segment or duct when selecting from the map. In addition, when selecting a form, it is now also possible to transfer the currently selected data record if several data records are contained in the form filter.
- The user interface for the “FTTx naming assistent” workflow has been completely redesigned and optimized.

- In the workflows “Create breakdown (from connector)”, “Create breakdown (from pin)”, “Create FO cable loop”, “Create TP cable loop” and “Create cross-section template”, the controls for entering floating point numbers are displayed correctly again from AutoCAD Map3D 2025 onwards.
- The error icon now scales correctly again in the various workflows starting with AutoCAD Map 3D 2025.
- If two ducts cannot be connected in the Duct connection editor due to the selected option “Only connect ducts with the same duct type” or “Only connect ducts of the same color,” the error message stating that the ducts cannot be assigned due to different names/position numbers is no longer displayed incorrectly.

Connection editor

- In the FO connection editor, actions have been added that allow you to adjust the assignment between connector and ONT.
- Several available actions in the connection editor now include the word “connect”.
- When opening the connection editor, now all work orders will be fully loaded in advance. If loading takes longer – for example, due to a large number of work orders – a message in the status bar will be shown.

Dialogs

- The “Name” attribute (text field) has been added to the data model for building units and displayed in the corresponding forms to enable unique designation and better identification.
- A new button was added to the duct termination form that highlights the connected duct without zooming.
- The order of entries in the “Edit” menu in the FO Terminator, TP Terminator, FO Closure and TP Closure dialog have been unified.
- The order of entries in the “Edit” menu in the FO Connector and TP Pin dialog have been unified.
- In the forms “TP Pin Data”, “TP Wire Data”, “TP Patch Data” and “TP Splice Data”, it is now prevented that several data records with the same wavelength can be created per feature or type. There are now a total of 4 new data checks to check whether such data records already exist.
- A new building unit detail form has been created for the form building. All fields of the building unit are now also visible in the detail form for building.
- The menu items for converting to a closure or terminator in the “FO Closure”, “FO Terminator”, “TP Closure” and “TP Terminator” forms are now disabled when the form is not in normal view mode, so that error messages no longer occur when clicking on them.
- The “Closure location” field in the “FO Closure” form has been adjusted to be shown only in the “General” tab.
- In the forms for object data (e.g. “FO Connector Data”, “FO Fiber Data”, “TP Pin Data”, or “TP Wire Data”), it is no longer possible to create duplicate pairings from feature/type and wavelength or frequency using “Global Change”.
- The units for wavelength and frequency have been removed from the forms in the LWL/FM module. The corresponding domains have been adjusted to ensure uniform and consistent display of the values.

Reports

- The ISA export has been improved to increase stability in case of data errors and to reduce memory usage in large projects.

- The menu entries for creating the old CO overview in the “FO Terminator” and “Switching point” dialogs as well as the Workflow “Create CO overview” have been removed.
- In the FO connection plan, The rectangle of the start and end building is adjust in the colored block and the text for the building now appears in the center of the colored block.
- The new CO overview, introduced with NET 14.3, has been improved. The overview can now also be created from the FO Closure dialog. The generation of the overview in larger projects has been accelerated. A progress indicator is now displayed when exporting the overview.
- The duct end overview report now supports dynamic line breaks, preventing overlapping column content.
- The reports “NET Engineering FO Splice Plan” and “NET Engineering FO Splice Plan Landscape” have been extended with an additional table containing splitter data.
- Several display settings options for the duct tap report (Duct Connections) have been added to the NET Options. These options can also be applied in the Doc Pack.
- In the “splice plan” report, some content in table rows was cut off. The report has been revised - ows are now automatically wrapped and their height adjusted as needed.
- The georeferenced output of the splice plan from network tracing now uses the original coordinates without additional shifts.
- Fixed a bug where reports failed to load if a special dialog filter had been executed beforehand.
- NET Engineering - In the reports “FO connector used at terminator” and “FO connector used with service at terminator” the result for “Number of patches in terminator” has been corrected.
- The options page of the detailed splice plan now includes specific values for the closure side selection again.
- Splices are now correctly labeled in the splice plan from tracing when parallel cables are present.

Map display

- The total number of building units is now available in the view for the buildings.

GIS-Nebenbestimmungen

- When exporting to GIS-NB, a query is made as to whether the cable and duct lengths should be recalculated if this setting is deactivated in the NET options.
- ID_NETZE in the“Endverbraucher layer and ID_TECH in the ”Bauten und Netztechnik" layer have been corrected.
- GIS-NB: An error message has been added for cases where different funding projects are assigned to a building and the associated FO terminator.

TNIM

- A TNIM Import error was fixed that caused a crash when simultaneously importing multiple domain values.
- The import of TNIM V1.0 files is not supported and results in a log error message indicating the incompatible format.

Redlining

- It is now possible to execute the Redlining action “Snap redlining features” via a REST server endpoint.
- The configuration of node names in tree views has been extended to allow customization of names for redlining objects.

- The forms “Building Label”, “Cluster Label” and “Parcel Label” have been supplemented with a meaningful heading.
- The error message of the redlining validation “Duct routes with missing fittings” has been improved.

Data check

- Datacheck- The verification for multiple cables in a microduct has been improved.

NET Operations

General

- Text no longer overlaps in the connection plan when customer names are too long.

Reports

- A bug was fixed where the network path report did not display correctly if the service did not span the entire fiber path.

NET REST Server

Export to NET Build

- The Redlining REST Server now also supports measurement data generated with NET Scan when splitting trenches.

Changes to the Data Model since NET 14.0

NET Design

Base Data Model

14.1

- New feature class “Surface areas” (`TC_PL_SURFACE_AREA`)

14.2

- New entry for the domain table “demand type” (`TC_PL_DEMAND_CONN_TYPE_TBD`)
  - 15 - No private connection

14.3

- New entry for the domain table “Cluster type” (`TC_PL_CLUSTER_TYPE_TBD`)
  - 4 - Duct cluster

15.0

- New entry for the domain table “trench class” (`TC_PL_TRENCH_CLASS_TBD`)
  - 12 - CO transition

NET Engineering

Base Data Model

14.1

- *No changes to the data model - Structural update only for new forms and reports*

14.2

- New columsn for data source (`FID_TNIM_SOURCE`) and source key (`TNIM_SOURCE_KEY`) in the following tables:
  - `TC_CLUSTER`
  - `TC_PERSON`
  - `TC_SWITCHING_POINT`
  - `TC_SP_PATCH_PANEL`
  - `TC_SP_PATCH_PANEL_MODEL`
  - `TC_SP_RACK_PANEL`
  - `TC_SP_RACK_PANEL_MODEL`
  - `TC_SP_CABINET_MODEL`
  - `TC_SP_MANHOLE_MODEL`
  - `TC_SP_MARKER`

    - `TC_SP_MARKER_MODEL`
    - `TC_SP_POLE_MODEL`
    - `TC_SP_SEGMENT_MODEL`
    - `TC_TG_BUILDING`
    - `TC_TG_BUILDING_UNIT`
    - `TC_LINE`
    - `TC_POINT`
- New feature class “data source” (`TNIM_SOURCE`)

14.3

- *No changes to the data model - Structural update only for new forms and data checks*

15.0

- The columns `FIELDCOLOR1` and `FIELDCOLOR2` have been removed from the table *“Number Scheme Type”* (`TC_NR_SCHEME_TYPE`).
- A new field has been added to *Status* (`TC_STATUS`) for Status Category (`ID_STATUS_CATEGORY`), with a link to the *Status Category* table (`TC_STATUS_CATEGORY_TBD`).
- A new column “Name” (`NAME`) has been added to *Building Unit* (`TC_TG_BUILDING_UNIT`).
- The column “Connector” (`FID_CONNECTOR`) has been removed from Building Unit (`TC_TG_BUILDING_UNIT`).
  It is replaced by the ONT tables that have been added to the fiber data model.
- New object class “Insertion Grid” (`TC_SP_INSERTION_GRID`) added.
- New object class “Insertion Grid Type” (`TC_SP_INSERTION_GRID_MDL`) added.
- New object class “Insertion Grid Group” (`TC_SP_INSERTION_GROUP`) added.
- New object class “Insertion Grid Group Template” (`TC_SP_INSERTION_GROUP_TBL`) added.
- New domain table for Status Category (`ID_STATUS_CATEGORY`) added.
  The following predefined values are included in the domain:
    - 1 – Planning
    - 2 – Existing
    - 3 – Under Construction
    - 4 – Built
    - 5 – Reserve
    - 6 – Discarded
    - 7 – Blocked
    - 8 – Decommissioned
    - 9 – Unknown

Duct Data Model

14.1

- *No changes to the data model - Structural update only for new forms and reports*

14.2

- New columsn for data source (`FID_TNIM_SOURCE`) and source key (`TNIM_SOURCE_KEY`) in the following tables:
  - `TC_SP_DUCT_TYPE`
  - `TC_SP_DUCT_BUNDLE`
  - `TC_SP_DUCT_INSERTION`
  - `TC_SP_DUCT_INSERTION_MDL`
  - `TC_SP_FITTING_MODEL`

14.3

- *No changes to the data model - Structural update only for new forms and reports*

15.0

- The map view for Building (`TC_M_BUILDING`) has been extended to include the number of building units (`NUMBER_OF_BLDG_UNITS`).
- A new column “Insertion Group” (`FID_INSERTION_GROUP`) has been added to Duct Insertion (`TC_SP_DUCT_INSERTION`), with a relation to Insertion Group (`TC_SP_INSERTION_GROUP`).
- A new column “Position in Insertion Group” (`INSERTION_GROUP_PLACE_NUMBER`) has been added to Duct Insertion (`TC_SP_DUCT_INSERTION`).

Fiber Optic Data Model

14.1

- Changed the views `TC_M_FO_CLOSURE` and `TC_M_FO_TERMINATOR`
  - New column `TRUNK_NAME`
    Contains the name of the cable trunk that is assigned in the closure or the terminator.

14.2

- New columsn for data source (`FID_TNIM_SOURCE`) and source key (`TNIM_SOURCE_KEY`) in the following tables:
  - `TC_FO_CABLE_MODEL`
  - `TC_FO_CLOSURE_MODEL`
  - `TC_FO_CONNECTOR_MODEL`
  - `TC_FO_FIBER_MODEL`
  - `TC_FO_SPLITTER_MODEL`

- `TC_FO_TERMINATOR_MODEL`
- `TC_FO_TRAY`
- `TC_FO_TRAY_MODEL`
- `TC_FO_TRUNK`

14.3

- Extended the map view for fiber optic cables (`TC_M_FO_CABLE`)
  - New column `FIBER_COUNT` containing the number of fibers used by a service.
- Fixed the relation between the fiber optic cable type and the fiber type.

15.0

- A new column “ONT” (`FID_ONT`) has been added to Connector (`TC_FO_CONNECTOR`), linking to ONT (`TC_FO_ONT`).
- New object class “Fiber ONT” (`TC_FO_ONT`) added.
- New object class “Fiber ONT Model” (`TC_FO_ONT_MODEL`) added.
- New domain table “Fiber ONT Category” (`TC_FO_ONT_TYPE_TBD`) added, with the following predefined values:
  - 1 – Active (fiber modem)
  - 2 – Passive (fiber outlet)
  - 99 – Unknown

Telephony Data Model

14.1

- Changed the views `TC_M_TP_CLOSURE` and `TC_M_TP_TERMINATOR`
  - New column `TRUNK_NAME`
    Contains the name of the cable trunk that is assigned in the closure or the terminator.

14.2

- New columsn for data source (`FID_TNIM_SOURCE`) and source key (`TNIM_SOURCE_KEY`) in the following tables:
  - `TC_TP_CABLE_MODEL`
  - `TC_TP_CLOSURE_MODEL`
  - `TC_TP_PIN_MODEL`
  - `TC_TP_TERMINATOR_MODEL`
  - `TC_TP_WIRE_MODEL`

14.3

- Extended the map view for telephony cables (`TC_M_TP_CABLE`)

    - New column `WIRE_COUNT` containing the number of wires used by a service.
- Fixed the relation between the telephony cable type and the wire type.

15.0

- Updated domain entries for the domain table “Frequency” (`TC_TP_FREQUENCY_TBD`)
    - 2 - 0.8kHz
    - 3 - 16.8kHz

Redlining Data Model

14.1

Only for PostgreSQL

- New trigger function `tc_f_rl_scan_delete_trigger_function` that is cleaning up the database in case a scan is removed from the redlining data model.
- New trigger `trg_rl_scan_after_delete` for the table `tc_rl_scan`

14.2

- New columns in the table service item (`TC_RL_SERVICE_ITEM`)
    - Approval date (`DATE_APPROVAL`)
    - Report date (`DATE_SUBMITTED`)
    - Crew (`NAME_CREW`)
    - Sub-contractor (`NAME_SUBCONTRACTOR`)
- New columns in the table Redlining cable(`TC_RL_CABLE`)
    - Cable reserve start (`CABLE_RESERVE_START`)
    - Cable reserve end (`CABLE_RESERVE_END`)
    - Cable type (`ID_CABLE_TYPE`)
- New columns in the table Redlining scan (`TC_RL_SCAN`)
    - GNSS device (`GNSS_DEVICE`)
    - Positioning quality (`ID_POSITIONING_QUALITY`)
- Relation of Redlining attribute (`TC_RL_ATTRIBUTE`) column feature (`FID_FEATURE`) extended to target additional feature classes:
    - Redlining building(`TC_RL_BUILDING`)
    - Redlining building unit(`TC_RL_BUILDING_UNIT`)
    - Redlining cluster (`TC_RL_CLUSTER`)
    - Redlining measurement line (`TC_RL_MEASUREMENT_LINE`)
    - Redlining measurement point (`TC_RL_MEASUREMENT_POINT`)

- Relation to building (`TC_TG_BUILDING`) removed from redning attribute (`TC_RL_ATTRIBUTE`) - clumn feature (`FID_FEATURE`).
- Relation to Redlining building (`TC_RL_BUILDING`) added to Redlining measurement point (`TC_RL_MEASUEMENT_POINT`) - column feature (`FID_FEATURE`)
- Relation to Redlining building (`TC_RL_BUILDING`) added to Redlining segment (`TC_RL_SEGMENT`) - column feature (`FID_FEATURE`)
- Relation to Redlining building (`TC_RL_BUILDING`) added to Redlining terminator (`TC_RL_TERMINATOR`) - column feature (`FID_FEATURE`)
- New feature classes:
  - Redlining building(`TC_RL_BUILDING`)
  - Redlining building unit(`TC_RL_BUILDING_UNIT`)
  - Redlining cluster (`TC_RL_CLUSTER`)
- New domain table positioning quality (`TC_RL_SCAN_POS_QUALITY_TBD`)
  - 1 - RTK Fix
  - 2 - GNSS antenne only
  - 3 - Mobiles GPS
  - 4 - Manual entry
  - 99 - unknown
- Column person (`FID_PERSON`) removed from Redlining measurement (`TC_RL_MEASUREMENT`)

14.3

- New column “Source object” (`SOURCE_OBJECT`) in added to Redlining building unit (`TC_RL_BUILDING_UNIT`).

DocPack

14.1

- New domain table “Plot sequence status” (`TC_PLOT_SEQUENCE_STATUS_TBD`) containing the following values:
  - 1 - Active
  - 2 - Inactive
  - 3 - Archived
- New column “Status” (`ID_STATUS`) in the feature class “Plot sequence” (`TC_PLOT_SEQUENCE`) with a relation to the domain table “Plot sequence status” (`TC_PLOT_SEQUENCE_STATUS_TBD`)

14.2

- Added missing caption to plot seqence (`TC_PLOT_SEQUENCE`) feature class - No structural changes

Changes to the dialogs since NET 14.0

NET Design

Base Data Model

14.1

- New dialog for the feature class “Surface area” (`TC_PL_SURFACE_AREA`)

14.2

- Updated dialog for the feature class “Surface area” (`TC_PL_SURFACE_AREA`)
  - Area value is now rounded to two decimal places
  - The selection list for the trench type is now sorted by name

Base Data Model

14.1

- New API controls `$BTNSHOWALLCABLES` , `$BTNSHOWALLDUCTS` , `$BTNSHOWALLSERVICES` got added to the feature class “Segment” (`TC_SP_SEGMENT`)

14.2

- New Combobox control for data source (`FID_TNIM_SOURCE`) and a new text box for the Source ID (`TNIM_SOURCE_KEY`) got added in the following dialogs:
  - Cluster (`TC_CLUSTER`)
  - Line (`TC_LINE`)
  - Person (`TC_PERSON`)
  - Point (`TC_POINT`)
  - Cabinet type (`TC_SP_CABINET_MODEL`)
  - Manhole type (`TC_SP_MANHOLE_MODEL`)
  - Marker (`TC_SP_MARKER`)
  - Marker Model (`TC_SP_MARKER_MODEL`)
  - Patch Panel (`TC_SP_PATCH_PANEL`)
  - Patch Panel type (`TC_SP_PATCH_PANEL_MODEL`)
  - Pole Model (`TC_SP_POLE_MODEL`)
  - Rack Panel (`TC_SP_RACK_PANEL`)
  - Rack Panel type (`TC_SP_RACK_PANEL_MODEL`)
  - Segment type (`TC_SP_SEGMENT_MODEL`)
  - Switching point type (`TC_SWITCHING_POINT_MODEL`)
  - Building (`TC_TG_BUILDING`)

    - Building unit (`TC_TG_BUILDING_UNIT`)
- New dialog for the data source (`TNIM_SOURCE`)

14.3

- Test button (`$BTNTEST`) removed from the dialog for the numbering scheme (`TC_NR_SCHEME`)
- Fixed the layout for the status (`TC_STATUS`) dialog

15.0

- Detail form for Number Scheme (Number Scheme Type) – `TC_NR_SCHEME#TC_NR_SCHEME_TYPE`
    - Field `FIELDCOLOR1` removed
    - Field `FIELDCOLOR2` removed
- New form for Insertion Grid (`TC_SP_INSERTION_GRID`)
- New form for Insertion Grid Type (`TC_SP_INSERTION_GRID_MDL`)
    - New detail form for Insertion Grid Group Template (`TC_SP_INSERTION_GROUP_TBL`)
- New form for Insertion Grid Group (`TC_SP_INSERTION_GROUP`)
- New form for Insertion Grid Group Template (`TC_SP_INSERTION_GROUP_TBL`)
- New control in the Status form (`TC_STATUS`)
    - Status Category (`ID_STATUS_CATEGORY`) added as a dropdown field
- New detail form under Building (`TC_TG_BUILDING`) for Building Unit (`TC_TG_BUILDING_UNIT`) – `TC_TG_BUILDING#TC_TG_BUILDING_UNIT`
- The control for Building (`FID_BUILDING`) in Building Unit (`TC_TG_BUILDING_UNIT`) has been changed:
  The display now shows the building name.
- Several columns have been removed from the Building Unit (`TC_TG_BUILDING_UNIT`) form:
    - Connector (`FID_CONNECTOR`)
    - Source Data Store (`FID_TNIM_SOURCE`)
    - Source ID (`TNIM_SOURCE_KEY`)
- New column Name (`NAME`) added to Building Unit (`TC_TG_BUILDING_UNIT`)

Duct Data Model

14.1

- New API controls `$BTNSHOWALLCABLES` , `$BTNSHOWALLSEGMENTS` , `$BTNSHOWALLSERVICES` got added to the feature class “Duct” (`TC_SP_DUCT`)

14.2

- Removed projections from duct (`TC_SP_DUCT`) dialog

    - Show all outer ducts of the filtered ducts
    - Show all outer trenches of the filtered ducts
- New Combobox control for data source (`FID_TNIM_SOURCE`) and a new text box for the Source ID (`TNIM_SOURCE_KEY`) got added in the following dialogs:
    - Duct bundle (`TC_SP_DUCT_BUNDLE`)
    - Duct insertion model (`TC_SP_DUCT_INSERTION_MDL`)
    - Duct type (`TC_SP_DUCT_TYPE`)
    - Fitting type (`TC_SP_FITTING_MODEL`)
- Removed projections from trench (`TC_SP_SEGMENT`) dialog
    - Show all inner ducts from the filtered trenches

14.3

- Added projection to the trench (`TC_SP_SEGMENT`) dialog - Show all direct inner ducts

15.0

- New controls in the form for Duct Insertion (`TC_SP_DUCT_INSERTION`):
    - Button to highlight connected ducts (`$HIGHLIGHTCONNECTEDDUCT`)
    - Selection field for Insertion Group (`FID_INSERTION_GROUP`)
    - Input field for Position in Insertion Group (`INSERTION_GROUP_PLACE_NUMBER`)

Fiber Optic Data Model

14.1

- New API controls `$BTNSHOWALLCABLELOOPS` , `$BTNSHOWALLDUCTS` , `$BTNSHOWALLSEGMENTS` got added to the feature class “Fo cable” (`TC_FO_CABLE`)
- Decimal places for the column “Attenuation” got increased from two to three for the following feature classes.
    - Fo connector data (`TC_FO_CONNECTOR_DATA`)
    - Fo fiber data (`TC_FO_FIBER_DATA`)
    - Fo patch data (`TC_FO_PATCH_DATA`)
    - Fo splice data (`TC_FO_SPLICE_DATA`)
    - Fo splitter data (`TC_FO_SPLITTER_DATA`)
- The format of the attenuation in the field “wave length/attenuation” got fixed in the following feature classes.
    - Fo connector model (`TC_FO_CONNECTOR_MODEL`)
    - Fo fiber model (`TC_FO_FIBER_MODEL`)
    - Fo splitter model (`TC_FO_SPLITTER_MODEL`)

- The projections to the fiber and the fiber optic cable originating from the service (`TC_SERVICE`) got fixed. The change only affects SQLite and results in the target dialogs showing the correct number of features.

14.2

- Removed projects from the dialog for the fiber optic cable (`TC_FO_CABLE`)
  - Show all ducts assigned to the current filtered cables
  - Show all trenches assigned to the current filtered cables
- New Combobox control for data source (`FID_TNIM_SOURCE`) and a new text box for the Source ID (`TNIM_SOURCE_KEY`) got added in the following dialogs:
  - Fiber optic cable type (`TC_FO_CABLE_MODEL`)
  - Fiber optic closure type (`TC_FO_CLOSURE_MODEL`)
  - Fiber optic connector type (`TC_FO_CONNECTOR_MODEL`)
  - Fiber type (`TC_FO_FIBER_MODEL`)
  - Fiber optic splitter type (`TC_FO_SPLITTER_MODEL`)
  - Fiber optic terminator type (`TC_FO_TERMINATOR_MODEL`)
  - Fiber optic tray (`TC_FO_TRAY`)
  - Fiber optic tray type (`TC_FO_TRAY_MODEL`)
  - Fiber optic trunk (`TC_FO_TRUNK`)
- Removed projects from the dialog for the duct (`TC_SP_DUCT`)
  - Show all cables for the current filtered ducts
- Removed projects from the dialog for the trench (`TC_SP_SEGMENT`)
  - Show all cables for the current filtered trenches

14.3

- Improved selection of the switching point in the dialogs for the fiber optic closure (`TC_FO_CLOSURE`) and the fiber optic terminator (`TC_FO_TERMINATOR`)
  - FID reference control removed (`$FIDREFERENCE1`)
  - Contents of the selection box for the switching point improved (`FID_SWITCHING_POINT`)
- Fixed the order of the fiber selection list in the fiber optic splice (`TC_FO_SPLICE`) dialog

15.0

- New controls in the form for Fiber Connector (`TC_FO_CONNECTOR`):
  - Jump button to ONT (`$APICONTROLCONNECTEDONT`)
  - Reference to ONT (`$REFERENCEONT`)
  - New label for ONT (`$LABEL1`)

- Label for unit of measure (`$LABEL1`) removed from the Connector Data form (`TC_FO_CONNECTOR_DATA`)
- Label for unit of measure (`$LABEL4`) removed from the Connector Type form (`TC_FO_CONNECTOR_MODEL`)
- Label for unit of measure (`$LABEL2`) removed from the Fiber Data form (`TC_FO_FIBER_DATA`)
- Label for unit of measure (`$LABEL3`) removed from the Fiber Type form (`TC_FO_FIBER_MODEL`)
- New form for ONT (`TC_FO_ONT`)
- New form for ONT Model (`TC_FO_ONT_MODEL`)

Telephony Data Model

14.1

- New API controls `$BTNSHOWALLCABLELOOPS` , `$BTNSHOWALLDUCTS` , `$BTNSHOWALLSEGMENTS` got added to the feature class “Tp cable” (`TC_TP_CABLE`)
- The projections to the wire and the telephony cable originating from the service (`TC_SERVICE`) got fixed. The change only affects SQLite and results in the target dialogs showing the correct number of features.

14.2

- Removed projects from the dialog for the duct (`TC_SP_DUCT`)
  - Show all cables for the current filtered ducts
- Removed projects from the dialog for the trench (`TC_SP_SEGMENT`)
  - Show all cables for the current filtered trenches
- New Combobox control for data source (`FID_TNIM_SOURCE`) and a new text box for the Source ID (`TNIM_SOURCE_KEY`) got added in the following dialogs:
  - Telephony cable type (`TC_TP_CABLE_MODEL`)
  - Telephony closure type (`TC_TP_CLOSURE_MODEL`)
  - Telephony pin type (`TC_TP_PIN_MODEL`)
  - Telephony terminator type (`TC_TP_TERMINATOR_MODEL`)
  - Wire type (`TC_TP_WIRE_MODEL`)

14.3

- Improved selection of the switching point in the dialogs for the fiber optic closure (`TC_FO_CLOSURE`) and the fiber optic terminator (`TC_FO_TERMINATOR`)
  - FID reference control removed (`$FIDREFERENCE1`)
  - Contents of the selection box for the switching point improved (`FID_SWITCHING_POINT`)
- Fixed the order of the fiber selection list in the fiber optic splice (`TC_FO_SPLICE`) dialog

- Improved selection of the switching point in the dialogs for the telephony closure (`TC_TP_CLOSURE`) and the telephony terminator (`TC_TP_TERMINATOR`)
  - FID reference control removed (`$FIDREFERENCE1`)
  - Contents of the selection box for the switching point improved (`FID_SWITCHING_POINT`)

Redlining Data Model

14.2

- Updated the list of target tables for the parent feature in the dialog for the feature class Redlining attribute (`TC_RL_ATTRIBUTE`). The changes of the data model are reflected.
- New dialog for the Redlining building (`TC_RL_BUILDING`)
- New dialog for the Redlining building unit (`TC_RL_BUILDING_UNIT`)
- New dialog for the Redlining cluster (`TC_RL_CLUSTER`)
- New controls added to the dialog for the Redlining cable (`TC_RL_CABLE`)
  - New selction control for the cable category (`ID_CABLE_TYPE`)
  - New text field for the cable reserve start (`CABLE_RESERVE_START`)
  - New text field for the cable reserve end (`CABLE_RESERVE_END`)
- New reference to the Redlining attribute (`TC_RL_ATTRIBUTE`) added to the following dialogs
  - Redlining measurement point (`TC_RL_MEASUREMENT_POINT`)
  - Redlining measurement line (`TC_RL_MEASUREMENT_LINE`)
- New controls added to the dialog for Redlining scan (`TC_RL_SCAN`)
  - New selection control for the positioning quality (`ID_POSITIONING_QUALITY`)
  - New text field for the GNSS device (`GNSS_DEVICE`)
- Added Redlining building (`TC_RL_BUILDING`) as detail table to the Redlining segment (`TC_RL_SEGMENT`)
- New controls added to the dialog for Redlining service item (`TC_RL_SERVICE_ITEM`)
  - New text field for the approval date (`DATE_APPROVAL`)
  - New text field for the submittet date (`DATE_SUBMITTED`)
  - New text field for the crew (`NAME_CREW`)
  - New text field for the subcontractor (`NAME_SUBCONTRACTOR`)
- Added Redlining building (`TC_RL_BUILDING`) as detail table to the Redlining terminator (`TC_RL_TERMINATOR`)
- Removed control linking the Redlining measurement (`TC_RL_MEASUREMENT`) to the person (`FID_PERSON`) from the dialog.

- New text field synchronization date (`DATE_SYNC`) added to the Redlining measurement (`TC_RL_MEASUREMENT`) dialog.

14.3

- New text field for the source object (`SOURCE_OBJECT`) added to the Redlining building unit (`TC_RL_BUILDING_UNIT`)

DocPack

14.1

- New control “Status” for the column `ID_STATUS` added to the dialog for the feature class “plot sequence” (`TC_PLOT_SEQUENCE`)

Changes of the reports since NET 14.0

NET Engineering

Base Data Model

14.3

- An error breaking the fault report in Autodesk Map 3D 2025 got fixed

15.0

- New report function (`GETRECORDEXISTSCONDITION`) added to all reports. The function checks if the report filter contains any data.

Duct Data Model

15.0

- Added a new function to support dynamic line breaks to the duct end overview

Fiber Optic Data Model

14.3

- The installation location is now correctly displayed in the report for the trays in closures
- The alignment of the text inside the columns of the splice overview got fixed

15.0

- The reports “Fiber Connector Occupancy at Termination” and “Fiber Connector Occupancy (Connected) at Termination” have been revised.
  In both cases, the “Number of Patchings in Termination” has been corrected.
- The reports “Fiber Splice Closure Occupancy Plan” and “Fiber Splice Closure Occupancy Plan – Landscape” have been improved:
  - Cells now expand dynamically based on their content.
  - A new column has been added with information about the splitter.

Telephony Data Model

14.1

- The reports for the network overviews got fixed to allow the creation of an aggregated report, created by the DocPack.