



Release Notes NET 12.3.2

Summary

The new version of NET includes the correction of critical bugs that were included in the last version of NET, as well as some enhancements to the Redlining extension, Project Validation, and the workflow “Duct connection editor”.

Supported software

- Autodesk AutoCAD Map 3D
 - Autodesk AutoCAD 2021.1.2 - Autodesk AutoCAD Map 3D 2021.0.1 or later
 - Autodesk AutoCAD 2022.1.3 - Autodesk AutoCAD Map 3D 2022.0.1 or later
 - Autodesk AutoCAD 2023.1.1 - Autodesk AutoCAD Map 3D 2023.0.2 or later
- TKI PostgreSQL Provider 4.0.1
- Comsof Fiber Designer 2019.2.2 - Comsof Fiber Designer 21.2
- TKI Licensing 12.3
(only required for a manual installation on the network license server)

Release NET 12.3.2 in detail

NET Design

Project Validation

- When validating overlapping building geometries, an error occurred and the application crashed. This error has been fixed.

atesio integration

- The function for the separate creation of connection lines (pre-processing) has been restored.
- The error that occurred when creating possible trenches from road centerlines with a width of -1 has been fixed.
- As of atesio version v2021, the output of reports and messages is now in German or English, depending on the set application language.
- There is now a new project validation for atesio, in which the project is checked for independent subnetworks. If smaller subnetworks or individual trenches are not connected to the main network, they are listed in the project validation.





Export to detailed planning

- In the general conversion and general naming scheme, the placeholder "TRUNK_SEQ" is now available for use with composite ducts. The placeholder is replaced by a counter during export, which is incremented for each branch or structure.

NET Engineering

- The function for removing clusters and the objects they contain has been significantly improved and now works much faster.

Workflows

- The use of the "Duct connection editor" workflow has been made more user-friendly: After applying changes, the previously set view is retained. That is, the ducts remain expanded or collapsed and the duct bundles remain on the respective page.
- The "Create multiplelines" workflow could not be used for a cable that was partially in segments and partially lies in ducts, cannot be applied without errors. This error has been fixed.
- The "FTTx Planning Wizard" workflow crashed if a duct color scheme set via the duct type was used that contained only one color value. This error no longer occurs.

Evaluations, reports and overviews

- If a fiber was removed that was previously intended for a connector-fiber connection in the connection editor, then an error occurred. This error has been fixed.
- The rounding error in the material list, which can be accessed via the Cluster form, has been corrected.
- The error that occurred when opening forms from an error overview has been fixed.
- In the "Splice plan from tracing", a program crash occurred when trying to trace cable without displaying endpoints. This error has been fixed.
- The error that could occur when calling the splice plan from the "closure" form, has been fixed.

Forms

- As long as nothing was changed in the settings in the dialog for renaming, recoloring and renumbering, an error occurred when previewing and applying the set schemes. This error does not occur now.

Redlining

- Using the "Link devices" action, closures and terminators can now also be selected from the redlining Data to be transferred to NET Engineering.
- If segments were transferred from the redlining data with a segment depth consisting of less than 25 characters, a crash occurred. This error has been fixed.
- The display of validations now shows the number of individual messages in parentheses.
- During the action "Link structures" an error occurred when already existing structures were included in the link. This error been corrected.

Structure update

- The structure update for the BMVI extension for NET Engineering is now also executed correctly under Oracle.





Changes to the data model since NET 12.0

NET Field Survey

12.1

- New entries in the domain table TC_DF_CONNECTION_TYPE_TBD:
 - 13 - Infrastructure up to the property line (HP+)
 - 14 - Infrastructure up to the property line (HP+) without distribution cable

12.3

- New column IS_PRIVATE in table TC_DF_TRENCH
- New entry in domain table TC_DF_CABLE_CLASS_TBD
 - 4 - unknown
- New entry in domain table TC_DF_PROVIDER_TBD
 - 4 - unknown
- New entry in domain table TC_DF_TRENCH_CLASS_TBD
 - 4 - unknown

NET Field Survey - BMVI Data Model

12.2

- Extension of the TC_DF_ADDRESS_POINT table with the following columns:
 - BMVI_AMOUNT_SOCIOECONOMICS
 - BMVI_CONSTR_COMP
 - BMVI_IS_AGRICULTURE
 - BMVI_IS_BUSINESS_AREA
 - BMVI_IS_MEV_AGAIN
 - BMVI_IS_SEE
 - BMVI_IS_SUPPLY
 - BMVI_SOCIOECONOMICS_COM
 - BMVI_SUPPLY_COM
 - BMVI_TECH_1_YEAR
 - BMVI_TECH_3_YEAR
 - BMVI_TECH_IS
 - BMVI_UID
 - ID_BMVI_FTTH_B with relation to TC_DF_BMVI_TECH_TBD
 - ID_BMVI_HFC with relation to TC_DF_BMVI_TECH_TBD
 - ID_BMVI_MEV_IS with relation to TC_DF_BMVI_SUPPLY_PLAN_TBD
 - ID_BMVI_MEV_PLAN with relation to TC_DF_BMVI_SUPPLY_PLAN_TBD
 - ID_BMVI_MEV_PLAN1 with relation to TC_DF_BMVI_SUPPLY_PLAN_TBD
 - ID_BMVI_SOCIOECONOMICS with relation to TC_DF_BMVI_SOCIOECONOMIC_TBD
- Extension of the TC_DF_STRUCTURE table by the column BMVI_IS_COLLOCATION
- New domain table TC_DF_BMVI_SOCIOECONOMIC_TBD
- New domain table TC_DF_BMVI_SUPPLY_PLAN_TBD
- New domain table TC_DF_BMVI_TECH_TBD

12.3





- Column BMVI_UID in table TC_DF_ADDRESS_POINT was renamed BMVI_UUID

NET Design

12.0.3

- New table TC_PL_HOME_POINT
- New column FID_HOME_POINT in table TC_PL_RESIDENT

12.0.4

- New column IS_PRIVATE in table TC_PL_STREET_CL
- New column ABBREVIATION in table TC_PL_HOME_POINT
- New column CITY in table TC_PL_HOME_POINT
- New column HOUSENR in table TC_PL_HOME_POINT
- New column POSTCODE in table TC_PL_HOME_POINT
- New column STREET in table TC_PL_HOME_POINT
- New entries in the domain table TC_PL_DEMAND_CONN_TYPE_TBD:
 - 13 - Infrastructure up to the property boundary (HP+)
 - 14 - Infrastructure up to the property boundary (HP+) without distribution cables
- New column DIRECT_CABLES in view TC_PL_V_OUT_DUCT

12.1.1

- New domain table TC_PL_DUCT_LAYOUT_TBD
- New column ID_DUCT_LAYOUT in TC_PL_DUCT with relation to TC_PL_DUCT_LAYOUT_TBD

12.2

- New column FID_FORCED_CABLE_TYPE in TC_PL_BUILDING with relation to TC_PL_CABLE_TYPE
- New column FID_FORCED_CABLE_TYPE in TC_PL_DEMAND_POINT with relation to TC_PL_CABLE_TYPE
- New table TC_PL_ROLLOUT_AREA
- New column DEPLOYMENT in the tables:
 - TC_PL_OUT_CABLE
 - TC_PL_OUT_DEVICE
 - TC_PL_OUT_DUCT
 - TC_PL_OUT_SPLITTER
 - TC_PL_OUT_STRUCTURE
 - TC_PL_OUT_USED_TRENCH

12.3

- New column EXCLUDED_LAYERS in table TC_DF_DUCT

NET Design - BMVI Data Model

12.2

- Extension of the table TC_PL_DEMAND_POINT by the following columns:
 - BMVI_CONSTR_COMP
 - BMVI_IS_AGRICULTURE
 - BMVI_IS_BUSINESS_AREA
 - BMVI_IS_MEV_AGAIN





- BMVI_IS_SEE
- BMVI_IS_SUPPLY
- BMVI_SOCIOECONOMICS_COM
- BMVI_SUPPLY_COM
- BMVI_TECH_1_YEAR
- BMVI_TECH_3_YEAR
- BMVI_TECH_IS
- BMVI_UID
- ID_BMVI_BUSINESS with relation to TC_PL_BMVI_YESNORESIDENT_TBD
- ID_BMVI_FTTH_B with relation to TC_PL_BMVI_TECH_TBD
- ID_BMVI_HFC with relation to TC_PL_BMVI_TECH_TBD
- ID_BMVI_HOSPITAL with relation to TC_PL_BMVI_YESNORESIDENT_TBD
- ID_BMVI_MEV_IS with relation on TC_PL_BMVI_SUPPLY_PLAN_TBD
- ID_BMVI_MEV_PLAN with relation on TC_PL_BMVI_SUPPLY_PLAN_TBD
- ID_BMVI_MEV_PLAN1 with relation on TC_PL_BMVI_SUPPLY_PLAN_TBD
- ID_BMVI_SCHOOL with relation on TC_PL_BMVI_YESNORESIDENT_TBD
- ID_BMVI_SOCIOECONOMICS with relation to TC_PL_BMVI_SOCIOECONOMIC_TBD
- Extension of the table TC_PL_STRUCTURE by the column BMVI_IS_COLLOCATION
- New domain table TC_PL_BMVI_SOCIOECONOMIC_TBD
- New domain table TC_PL_BMVI_SUPPLY_PLAN_TBD
- New domain table TC_PL_BMVI_TECH_TBD
- New domain table TC_PL_BMVI_YESNORESIDENT_TBD
- New domain table TC_PL_RESIDENT_TYPE_TBD

12.3

- Column BMVI_UID in table TC_PL_DEMAND_POINT was renamed BMVI_UUID

NET Engineering and Operations

12.0.2

- New view TC_REP_SEGMENTCOSTS - support for report "Segment costs"
- New view TC_REP_CABLECOSTS - support for report "Cable costs"

12.0.4

- Relation of FID_DEVICE in table TC_BMVI_SUPPLY_AREA is now "D" (delete if parent object is deleted)

12.1

- Adaptation of view TC_M_SP_DUCT - internal change, no changes to columns

12.2

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

12.3

- Column ID_TYPE in TC_NR_SCHEME may no longer contain the value zero, new default value is 1
- New view TC_V_CONN - database optimised view for topological connections in which the *_FROM part is always the line object.
- Changed view TC_V_CONN_DETAILS_PERF - output identical, only internal changes





- New column VALUE_SHORT in TC_COLOR
 - Short name for all standard colours is also filled in the update
- Relation of FID_PATCH_PANEL in table TC_FO_CONNECTOR is now "P" (deny deletion if relation exists) - Patch panel must not be deleted as long as a connector is assigned.
- Optimisation of the label definitions of TC_SP_DUCT_INSERTION and TC_SP_SEGMENT
No changes to the output

Documentation Pack

12.0.3

- Type of FID_SEQUENCE column in TC_PLOT_SEQUENCE_ELEMENT changed to numeric (10)
- Type of POSITION column in TC_PLOT_SEQUENCE_ELEMENT changed to numeric (10)

12.0.4

- Adaptation of column changes from 12.0.3 in the fdo_columns table for SQLite industry models

Changes to forms/reports since NET 12.0

NET Design

12.0.4

- The width of the controls for the references in the "Demand point" form has been increased.
- The new column "Is Private" has been added to the Street centerline form. Is only visible for the atesio optimizer.
- The designations for the "Duct Type Restriction" has been unified in all forms.

12.2

- Forms "Building" and "Demand point" have been adjusted to show the forced cable type as well.
- New form for rollout phases.
- Forms for "Cable", "Duct", "Structure", "Splitter" and "Used Trench" in the planning result have been adjusted to show the attribute "Provision".
- The label for the length in the forms for "Cable", "Duct" and "Used Trench" in the planning result has been correctly translated to German.

12.3

- Added "Excluded network layers" controls in the "Duct" form

NET Engineering and Operations

12.0.1

- The identifier for the STOP_SERVICE field has been adjusted in the splitter type form (TC_FO_SPLITTER_TYPE).

12.1

- The identifier "Building" has been changed to "Installation location". Affected are the forms TP Terminator (TC_TP_TERMINATOR), TP Cable Section (TC_TP_CABLE), TP Closure (TC_TP_CLOSURE), FO Terminator (TC_FO_TERMINATOR), FO Cable Section (TC_FO_CABLE) and FO Closure





(TC_FO_CLOSURE).

- Control for cable assignment in fiber optic cable reserve and TP cable reserve is now a drop-down list.
- Text for attached fiber and attached wire in fiber optic Connector and TP pin has been improved. Missing separators and spaces have been added.
- Selection field for manufacturer in fiber optic measuring device (TC_FO_MEASUREMENT_DEVICE), device rack type (TC_SP_RACK_PANEL_MODEL) and patch panel type (TC_SP_PATCH_PANEL_MODEL) has been corrected. The filter for the selection options and the display of the values has been corrected.

12.2

- Show status in duct point form

12.3

- Revised report: Network route overview
- New report: Blow-in report for cable trunk
- Tab ID of controls in cluster form corrected
- Form Building: Arrangement of "Cluster" and "House number" in the form corrected
- Form Pole: Alignment of controls corrected to avoid collision of field calculations with the left margin.
- Form FO Terminator: Field for "Total connectors" corrected - only the number in the text field

- Form FO splitter type: Position of "Manufacturer information" corrected to avoid collision with the separator line.
- FO splitter data: Length of separator line corrected
- Forms for "Cabinet", "Manhole" and "Pole": New buttons under "Details" to display the referenced objects for all current objects in the filter.
- Form for "Cluster": New buttons to open buildings, points and lines for all clusters in the filter.
- Form "Document management": Identifier of field for name of creator corrected.