Release Notes NET 13.0

Summary

NET 13 brings support for AutoCAD Map 3D 2024 to all included products.

In addition, there are many bug fixes and improvements to workflows in NET Engineering, and NET Build integration has been significantly improved.

Part of the new version is an update to our licensing solution, which fixes some minor issues.

Users of the TKI PostgreSQL provider must update to version 4.1 of the new provider to ensure compatibility with NET.

Supported Software

- Autodesk AutoCAD Map 3D
    - Autodesk AutoCAD Map 3D 2022.0.1 - Autodesk AutoCAD 2022.1.3 or later
    - Autodesk AutoCAD Map 3D 2023.0.2 - Autodesk AutoCAD 2023.1.1 or later
    - Autodesk AutoCAD Map 3D 2024.0.1 - Autodesk AutoCAD 2024.1 or later
- TKI PostgreSQL Provider 4.1.0
- Comsof Fiber Designer 2019.2.2 - Comsof Fiber Designer 22.2
- Comsof Fiber 23.1
- TKI Lizenzierung 13.0
  (Only required for a manual installation on the network license server)

Release NET 13.0 in detail

> 🚀 AutoCAD Map 3D 2024 is supported for NET Field Survey, NET Design, NET Engineering and NET Operations.

NET Design

Conversion to low level design

- When a splicing error occurs, the affected cable and target device are now explicitly displayed.

NET Engineering

General

- Fixed an issue that caused the network tracing to get stuck and ever finished. Mainly reports are affected by this bugfix.
- The user interface of NET Engineering Options has been improved so that the texts are easily readable at different screen scales.

Workflows

- The texts of the selected options in the Duct connection editor workflow and in the NET Engineering options have been adjusted so that they are now consistent.
- If the option "Connect only ducts of the same color" is activated in the NET options, ducts of the same color can now be connected without errors in the "Set duct fitting" workflow.
- In the "Set duct fitting" workflow, it is now no longer possible to create invalid fittings.
- An error of the automatic duct length calculation within the "Edit segment und duct assignments" function has been fixed.
- The selection of an incorrect object in the map led to the abortion of the workflow "Set duct insertion". The workflow has been adapted so that a corresponding message now informs the user if an incorrect object has been selected.
- An error when applying the color scheme in the "Create and assign ducts (w/o geometry)" workflow has been fixed.
- A note text in the "Split segment" workflow has been adjusted.
- A message with the result is now displayed in the "Create duct insertion" workflow after execution.
- The workflows "Create FO cable loop" and "Create telephony cable loop" have been completely revised to improve the output on high-resolution displays and in the dark colour theme.
- The feature selection of the workflows has been standardized so that it is now also possible to transfer features from the form filter for some workflows.

Reports

- In the "Duct Connections" report, the name is now displayed left-justified and on all pages.
- When displaying the report "Duct connections", the first page displayed was always a blank page. This error has been fixed.
- The text in the field "Info" in the report "FO Splice Plan" is now limited and truncated if it is too long, so that display errors no longer occur when the report is output.
- The designation of the connectors and pins in the report "Work order" is now uniform. In addition to the connector or pin, the name, number or FID of the same is displayed.

Forms

- The copy and paste function using F7 and F8 works again in the forms.
- In the form "FM Pin" the field "Name" is now editable.
- Fixed a problem when creating a device with a switching point.

Structure updates

- Fixed a structure update error under Oracle that always occurred when the SQL statement " `SDO_FILTER` " was stored for a control.

NET Build integration

- The NET Build Push function for NET Engineering projects now supports buried/aerial cables.
- The NET Build Push function for NET Engineering projects now supports the transfer of connector type, tray type and closure side for splice information.
- The NET Build push function causes an exception when pushing empty trenches (without ducts inside). This error is fixed now.
- The call of the function for data transfer according to NET Build has been changed internally so that users now no longer need admin or service rights to execute the data transfer.
- During data transfer to NET Build, planning objects of the type "Closure" receive a new attribute to map the relationship to the building structure.
- Segments without cables are now also transmitted to NET Build.
- When synchronising the field reports, connector types, tray types and closure sides of the trays for the splice information are now also transferred to NET Engineering.
- Synchronize NET Build field reports in the NET Engineering now supports Datepicker options with the NET Build object type "Production Report" which allows to choose desired start and end date.

Redlining

- The "Redlining Measurement Point Type" has been supplemented with the "Ball marker" type.
- The relationship between the survey points and the parent objects (closure,trench,terminator, structure, fitting) is now set correctly.
- When synchronising the field reports, connector types, tray types and closure sides of the trays for the splice information are now also transferred to NET Engineering.
- Increased the performance of redlining to engineering data transfer. It will now only load the required objects via a spatial filter instead of loading everything.

Connection editor

- When working with work orders now the tray connection is counted and displayed correctly.

Licensing

- The version of the network license server by Revenera is being updated from Version 2022.09.0 to 2023.10.0.
- There was an error when creating the request file for the offline activation of a licence in the network licence server. This error has been fixed.
- A spelling error in the TKI licensing has been fixed.

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

12.4

- New columns `SOURCE_KEY` and `SOURCE_LAYER` in the tables:
  - `TC_DF_CLUSTER`
  - `TC_DF_DUCT_TYPE_CONSTR`
  - `TC_DF_STREET`
- New column `SYNC_DATE` in table `TC_DF_CLUSTER`
- New column `ZIPCODE` in table `TC_DF_PERSON`
- Column `FID_DUCT_TYPE_CONSTRAINT` removed from table `TC_DF_STREET`

12.5

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

13.0

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

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`

12.4

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

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`

12.4

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

12.5

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

13.0

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

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 to TC_PL_BMVI_SUPPLY_PLAN_TBD
- ID_BMVI_MEV_PLAN with relation to TC_PL_BMVI_SUPPLY_PLAN_TBD
- ID_BMVI_MEV_PLAN1 with relation to TC_PL_BMVI_SUPPLY_PLAN_TBD
- ID_BMVI_SCHOOL with relation to 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

12.4

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

12.5

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

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 if a connector is assigned.
- Optimisation of the label definitions of `TC_SP_DUCT_INSERTION` and `TC_SP_SEGMENT`. No changes to the output.

12.4

- New column `ARGB_COLOR` in view `TC_COLOR`
- Service specifications removed - The following tables have been deleted:
    - `TC_SD_SERVICE_DICT`
    - `TC_SD_SERVICE_DICT_ITEM`
    - `TC_SD_SERVICE_FEATURE`
    - `TC_SERVICE_POSITION_TYPE_TBD`
- New field `STATUS_NAME` in the views `TC_M_SP_DUCT_INSERTION` and `TC_M_SP_FITTING`
- Relation of fields `COLOR` and `COLOR2` in `TC_SP_DUCT` changed from `TC_V_COLOR` to `TC_COLOR`
- Label definitions of Duct Insertion for name and color in duct bundle adapted, no change in content

12.5

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

13.0

- The views `TC_REP_WO_FO_PATCH`, `TC_REP_WO_FO_SPLICE`, `TC_REP_WO_TP_PATCH` and `TC_REP_WO_TP_SPLICE` have been updated.

  The contents of the columns `ELEMENT_FROM` and `ELEMENT_TO` were changed to improved the related reports.

NET Engineering and Operations - BMVI Data Model

12.4

- New table `TC_BMVI_FUNDING_PROJECT`
- Update of view `TC_BMVI_M_BUILDING`
- Update of view `TC_BMVI_M_SP_SEGMENT`
- New column `FID_FUNDING_PROJECT` in tables

  - `TC_FO_CABLE`
  - `TC_FO_CLOSURE`
  - `TC_FO_TERMINATOR`
  - `TC_SP_DUCT`
  - `TC_SP_CABINET`
  - `TC_SP_MANHOLE`
  - `TC_SP_POLE`
  - `TC_SP_SEGMENT`
  - `TC_TG_BUILDING`

12.5

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

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" have 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

12.4

- Forms have been changed internally in the basic concept. This has changed the positioning and size of the forms, as well as the tab order. In addition, the forms for the views have been removed and a redirection to the main forms has been stored.

12.5

- Changed the identifier from "m ²" to "m²". The following forms are affected:
  - `TC_PL_BUILDING`
  - `TC_PL_CLUSTER`
  - `TC_PL_OUT_CLUSTER`
  - `TC_PL_PARCEL`
  - `TC_PL_ROLLOUT_AREA`
  - `TC_PL_SUBAREA`
- The General and General tabs are combined if they exist in existing projects.
- In existing projects the General tab is sorted, if necessary, to the first position in the form.

13.0

- `FID` field in all forms has been locked to allow the copy and paste function using F7 and F8 to work.

17. November 2023

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 wire 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.

12.4

- Forms have been changed internally in the basic concept. This has changed the positioning and size of the forms, as well as the tab order. In addition, the forms for the views have been removed and a redirection to the main forms has been stored.

12.5

- The "General" and "General" tabs are combined if they exist in inventory projects.
- The General tab is sorted to the first position in the form in inventory projects, if necessary.
- Dynamic line breaks have been added to some reports to better display very long identifiers.

    - NET Engineering FO Splice overview closure
    - NET Engineering FO Splice overview terminator
    - Duct connections

13.0

- `FID` field in all forms has been locked to allow the copy and paste function using F7 and F8 to work.
- The field `NAME` in the "TP pin" form has been changed from a `SqlLabel` to a `SqlTextBox`. This allows the name editing the name directly.

17. November 2023