

# Release Notes NET 12.3.5

## Summary

The new version of NET contains further improvements and corrections of bugs from previous versions.

## Supported Software

- Autodesk AutoCAD Map 3D
  - Autodesk AutoCAD Map 3D 2021.0.1 - Autodesk AutoCAD 2021.1.2 or later
  - 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
- 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 12.3.5 in detail

### NET Design

#### atesio integration

- When calculating with atesio, the supplying network point in a POP is set correctly again if several POPs are assigned to a backbone cluster.
- The project validation "atesio: Independent subnets" no longer causes a crash if there are paths without geometry in the project.

#### Export to detailed planning

- When transferring a Comsof calculation result to detailed planning, splitter outputs in fiber optic terminators are now spliced again.
- When transferring to detailed planning, a crash now no longer occurs if it is set in the naming scheme/conversion scheme that individual ducts are to be colored and there are conventional ducts in the project at the same time.

## NET Engineering

### Workflows

- The "Create and assign ducts (without geometry)" workflow now reapplies the correct/selected color scheme when the color scheme is changed.
- In the "Create multi lines" workflow, the offset is applied correctly again if the "Duct snaps to duct" option is set.
- The display of an error in the duct connection editor has been optimized.
- When importing data to NET Engineering (TNIM import, redlining data transfer, transfer to detailed planning), a crash no longer occurs if the industry model contains an incorrect label definition.

### Reports

- In the "FO Closure Splice plan" report, the data is again output in the correct columns when splitters are used.
- In the report "Cable trunk duct route" the term "Window Cut" was translated into German ("Teilweise Verspleißt").
- The Cable trunk duct route report now does not double count cable reserves.

### Forms

- When changing the geometry of a segment, all opened forms were closed and reopened several times. This behavior has been optimized so that the relevant forms only receive an update of the corresponding values.
- Some forms remained incorrectly open after closing the project in AutoCAD Map 3D. This behavior has been corrected so that these forms are now automatically closed as well.
- It no longer crashes when opening the "Building" form if an invalid FID is stored for the street.
- In the "Fiber optic cable type" form, the "Adjust cable sections" function no longer crashes if an invalid designation/color scheme is stored. Instead, a meaningful error message is displayed.

### Redlining

- During redlining data transfer, a crash occurred when errors occurred in the "Link drop trenches" step. This has been corrected and the errors are now displayed in the log instead.
- During redlining data transfer, duct insertions for house connection ducts are now set correctly.
- During redlining data transfer, fittings for composite ducts are now set correctly.

### Documentation Pack (DocPack)

- The "Documentation Pack Output" window is now no longer necessarily in the foreground, but can be moved to the background if required.

### NET Build

- It now no longer crashes when logging into NET Build to synchronize field reports from NET Build to NET Engineering when multiple projects are opened.
- When synchronizing field reports from NET Build to NET Engineering, segments from wrong regions are no longer transferred.

- In the "Synchronize NET Build Field Reports" form, the formatting of date fields with time has been corrected.
- Some improvements have been made to the user interface of the "Synchronize NET Field Reports" form.

### Infrastructure Administrator

- There is a new 1-click maintenance called "NET Engineering: Topology Feature Class IDs", which finds and removes invalid values in topology tables so that they no longer cause errors in the program.

## 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" 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

### 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.