

## Overview of the most prominent new functionalities and changes in AND 4.17

- AND 4.17 marks a milestone for the AND GUI: Buttons have been modernized and the size of toolbars and buttons is adjustable
- Added feature PrintObjects: Persistent print rectangles for projects, with a lot of additional features
- Implemented GetFeatureInfo for WMS feature info requests to AND WMSclient
- Added feature HotspotFilters: Rule-based visibility for database hotspots in AND Client and AND WebAccess
- Adjustments for German "Bundesförderprogramm" (BuFö) version 3.1
- Jetter report improved (don't show microduct-microduct connections and don't duplicate cables over conduits)
- Fixed rare case of calculation showing wrong wire structure
- Added new object type LabelObject (for displaying dynamic labels without impact on routing, performance etc.)
- Improved performance for saving/loading embedded DXF in projects
- Enabled remote supply coloring in AND ViewIn where the license allows for it
- AND LibEdit: feature added for copying optical standard packs
- Removed UseMemFile registry key and enabled the feature by default for a performance gain
- Fixed a bug related to BOM stored in the project
- Fixed bug where redlines were not visible where they should
- Added MUC (multiconnector) to Interconnectplan
- Fixed a case that could make AND PinBoard objects vanish after some days
- Fixed an issue where redlining was not visible after saving it
- Added correct support for meter-scaled sheets to duct packages and trenches
- Fixed a case of assigned cables in NCW ignoring signal path coloring
- Fixed an issue where sometimes the color set in thematic coloring for text was ignored
- Added handling for a rare case of shorts with linked cables that lead to a crash
- Added creation of sheet connectors to sheets created from MUC objects
- Added support for NT usernames to the Active Directory integration
- Fixed "convert to sheet" not keeping some data of the object
- Enabled re-grouping for un-grouped connections in MUC
- Added support for empty layer names in AND WMSclient
- Improved handling of various exceptional cases in InterconnectPlan
- Fixed library linking for hybrid cables (subcables were not always linked)
- Added support for 3-staged fibers inside duct for calculation
- Temporary length measurement object no longer becoming permanent (and related issues)
- Fixed trenchdividers moving when catching on a trenchline
- Loading a project with an amplifier list does not automatically set the project to "changed"
- Fixed a rare crash when having a block on the mouse and pressing ESC
- Support optical standard packs of optical amplifiers
- Fixed issue in BuFö where predefined attributes from library were ignored
- Improved handling for pigtails in Interconnectplan
- Added support for default values in hotspot definition
- Fixed issue with block selection removing cable number labels
- AND WebAccess no longer becomes unresponsive when pressing ENTER in "Distance to breakage" dialog
- Improved routing in hybrid cables when combining different substructures
- Picking up cables on a hybrid cable expander now results in the correct cable being created
- Removed crash when using "Mark line colored over projects"
- Fixed a number of memory leaks in various functions
- Fixed issue in BuFö where parts of the data were missing in the export
- Corrected calculation in Netcheck for wide OFDM channels
- Added support for single duct microduct packages to MUC
- Fixed missing links in NIS diagrams saved as file
- Ensured cable in microduct is written to database NCW tables
- Added support for a special case in coloring the result of an AB search
- Fixed a routing error with old-style trench pins
- Improved rotation handling for sheet pins when converting a symbol to a worksheet
- Corrected wire count in bundle split handling
- Fixed a crash in a special case while importing hotspots
- Fixed handling of sheet selection while printing
- Improved selection handling in BOM status filtering
- Removed false duplicate output from BuFö export
- Added support to turn off status coloring in AND WebAccess PDF export
- Removed rare crash when force-connecting trenchlines with differing data
- Improved handling of microduct leg sheet connectors
- Modernize RF signal source dialog (use QAM256 as standard type)
- Fixed cable length calculation in a special case
- Added missing cables to Jetter report in a special case
- Improved background handling when aligning objects
- Added support for a special case when counting MDU using projects connected with EEPs
- Fixed block copy leading to library issues for hybrid cable expanders
- Fixed a crash in rare, extreme conditions with trench lines
- Update BuFö to V4.1 & V4.1a
- Improved support for predefined crosstexts
- Added ability to color objects with deleted addresses
- Improved save and load performance for projects and libraries
- Added status coloring toggle to AND WebAccess
- Improved automatic cable linking over conduits
- Enabled planning state switching in AND WebAccess
- Improved handling for splice symbols and signal flow arrows
- Make frequencies selectable in AND Verify (KWS measurement device interface)
- Improved handling for character encoding in hotspot import

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The current build is an update and maintenance release, which provides new functionality and fixes known faults.

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