

Facilplus Spatial/E Release Notes 5.0

News and enhancements

Mapper

- It is now possible to create free graphics and select symbology, colour, line types and line styles when the checkbox "Individual drawing attributes" is selected [3712]
- Important fields for network calculations are now indicated by colour in the standard applications attribute form. [6594]
- It is now possible to create delivery points on 50 and 130 kV. [7865]
- When creating a substation by the use of a template the attribute form now appears automatically which makes it possible to change the attributes immediately when the substation is created. [10789]
- A new mass update tool is available. Objects to be updated by this tool can be selected by the highlighted objects, objects in a saved trace or already selected objects. In the standard configuration the mass update tool is set to work with the fields "Installed year" and "Accuracy". [14708]
- It is now possible to create template transformers and connect them to transformer bays in substations. [15648]
- For the armature object you can now create a text with the contents from the "phase code" attribute. [17783]
- It is now possible to abort text placement by using the right click menu when creating switch objects [17897, RT 2028]
- A new report is available for gathering information about all neutral point reactors and to which substation they belong. [17954, RT 3144]
- In the "Asset management" reports it is now possible to also filter objects based on state. [17956, RT 3146]
- The component "Text alternative id" can now be created also for the objects delivery points, cable pillars, joints, service cables and substations. [17984]

- In the "Asset management" reports it is now possible to also filter objects based on "Installed year". [18000, RT 3146]
- The creation of cable texts is now simplified. When the selection of cable (-s) is done a single left click will create the text (-s) parallel to the line (-s). A right click will give the other alternatives for text placement [18028]
- It is now possible to dynamically modify the colors used by the function "Net topology coloring". After the function has started you will be able to modify the selection colors in new form that will appear. [18065, RT 2130]
- The disconnector report of "Asset management reports" will now also show used fuses for the fuse disconnectors. [18091, RT 1822]
- A new trace function, "Sub network" that can be used on all voltage levels is added. This trace function will run starting from a substation containing a transformer and based on the correct switch settings inside and outside the substation trace all objects found on the lower voltage side until an open switch setting or other voltage level is found. [18166]
- A new function for apparatus creation in cable pillars is available. Based on the pillar bus bar length and the size of the apparatus. A warning will be given in the attribute form for the pillar and switch if the size is not compatible. To utilize this function the apparatus code list must be updated with correct size values. [18209]
- The search function, Search-> Electric equipment now is enhanced with icons. [18249]
- To trace in single feeder line the substation bay trace has been split into two trace functions. You can now either trace the feeder line on the current voltage level only or the feeder line and all sub voltage levels below it. [18334]
- It is now possible to configure an optional angle addition when creating objects by placing a symbol. [18437]
- A new common menu for changing states of Electric and Piping objects is now available. If a number of Electric and Piping objects are selected you can now at the same time change state on both types from the same dialogue menu. [18464]
- The breaker type code list is now enhanced with a rated data column, "Max switching power". [18783]
- A number of new columns for managing pcb documentation of substations are introduced. [18858]
- An admin role is now required to define and delete substation, cable pillar and transformer templates. [19260]
- A new editing function for parallel moving line components towards a line object, "Edit-> Component-> Move lines towards other object". [19373]

Analyzer

- A catalogue for calculation terms. [4349]
- A description is now available for all error messages from a calculation. [7484]
- Text results can now be viewed in the map as "short names" when plotting. [17957]
- The logic for creating printouts of the test result in map/schedule presentation is rebuilt. [17983]
- Calculation error logs now contain user object identities. [18070]
- A new check for controlling ISIC code in relation to Diversity constants is performed. [18315]
- A new report for MV earth faults that handles substations with multiple transformers either sharing a neutral point or having individual neutral points is introduced. [18422]
- A better support for visualization of thematic coloring of calculation results is now available. [18669]
- The different alarms available can now be selected from the fixed reports for color visualization in the map or in reports. [18821]
- It is now possible to use measured currents as input data for a load flow calculation. [18873]
- In the calculation log report new printouts for tap changer regulation are available.
- The internal calculation network reduction is modified so that substation bus bars will never be reduced/removed.

Corrections

Mapper

- Sometimes when splitting a cable/line and one end was connected in a substation that end of the new component could be disconnected, This is now corrected. [11334, RT 1224]
- Template cable pillars for schematic view can now be deleted. [14568]
- The cable pillar card could sometimes represent the network as meshed although open switches indicated a radial network. This is now corrected. [15125, RT 2061]
- When using different symbology for cable pillar switches based on connection state sometimes a change in the cable pillar switch connection state also could trigger a new symbology of the a switch in the feeding secondary substation. This is now corrected. [17650, RT 3078]
- Transformer windings that had been disconnected by mistake could not be reconnected. This is now corrected. [17896]
- The reports "Electric equipment->Cables->Crossing overhead lines" and " Electric equipment-> Stations and station data-> Cable pillars in feeding order" now honors the "Show a maximum of xx rows" setting. [18120]
- When defining a template cable pillar you could earlier select other objects than pillars. This is now corrected. [18630]
- When creating an "Other disconnecting device" and manually selected the object category = Undefined, the function was aborted and nothing created. This is now corrected. [18930]
- In some cases it was not possible to save modified tap changer settings when the form was opened from inside the "Net calculation data" tab of the transformer form. This is now corrected. [19122]

Analyzer

- In "Show calculation" the current view will be adjusted according the calculation result. [12730]
- After having chosen a presentation template and then tried to view a calculated result for an object, the template was still not used. This is now corrected. [17305]
- A calculation of type "Cable pillar calculation" could in some cases trace more of the network than intended. This is now corrected. [17314]