Find and Replace Tool Overview

This software will automate the process of changing Apogee point names and parts of the process of converting from P2 to Bacnet.

Intended Use

This software is intended to be used by an experienced Siemens specialist or engineer.

The P2 to Bacnet conversion will require the user to have a Bacnet field panel in the office to perform some of the steps in the conversion. It is intended that one field panel will reside in the office and be used for all conversions.

If the conversion is happening at the same time as a panel fast-forward migration, it should be used in this order:

1. The system point name change should be performed, if necessary.
2. The fast-forward should be performed on the p2 panel database.
3. The Bacnet conversion should be performed.

System Name Change

A command-line utility for changing system point names has been available for several years. This software provides a graphical user interface for that utility and will update system point names, graphics, PPCL, and trend definitions in a commissioning tool database.

The command-line utility lacks the ability to change point names in PPCL that are referenced with a DEFINE statement. This software will update PPCL that uses DEFINE statements and will create a new DEFINE statement if desired. This step will require PPCL to be exported and then re-imported after the conversion.

P2 to Bacnet Conversion

The software will convert engineering units to Bacnet-compatible units, update state-text tables, create Bacnet commands from schedules and SSTO, and it will create Bacnet commands for enhanced alarms and provide the user with PPCL to be added for the enhanced alarming functionality.

Engineering Units

The user will export a field panel from point transfer, and the software will convert engineering units to Bacnet-compatible units. The user will then re-import the field panel.

Schedules and SSTO

The user will export zone definition reports and zone schedule reports for each zone in the panel. The user will then plug into the HMI port of a Bacnet field panel of the same type as the panel being converted (PXCM or PXCC) and restore the database into this field panel. While connected to the panel, the software will take the data from the zone definition and schedule reports and recreate as Bacnet schedules. The user will then backup the panel back into the commissioning tool database.

State-text tables

While connected to the field panel used for schedules, the software will reference the field panel export and find the mode points and cross-reference the associated state text tables from the global data export. It will then find this state text table in the connected panel, re-create a Bacnet-compatible state text table, and re-create the mode point with this new state text.

Enhanced Alarms

While connected to the field panel used for schedules, the software will reference the field panel export and recreate enhanced alarm functionality as Bacnet commands. Additionally, the software will generate PPCL in a text format for the user to incorporate into a program in the field panel.