B-PRO 4000 Multi-Busbar Firmware

v1.2b

Release Description

DATE: 2023-06-30

FEATURE ENHANCEMENTS

- Cyber Security
  - None.
- General
  - Added support for minor changes to the Main Processor Board hardware to address supply chain issues. This change has no impact on the functionality of the B-PRO 4000 Multi Busbar when compared to the v1.2a Firmware release.

CORRECTIONS TO ISSUES

- Cyber Security
  - None.
- General
  - None.

COMPATIBILITY

B-PRO 4000 Multi Busbar Offliner Software:	v1.1 and above
Relay Control Panel Software:	v3.4 and above
RecordGraph Software:	v5.1 and above
RecordBase Central Station Software:	v4.1 and above
RecordBase View Software:	v4.2 and above
61850 IED Configurator Software:	v3.5 Rev 1 and above
ICD File Version	v3.1 Rev 02
B-PRO 4000 Multi Busbar Setting Version	402
B-PRO 4000 Multi Busbar User Manual	v1.2 Rev 0

Minor releases, designated with a revision or letter (e.g. v3.4 Rev 1 or v3.4a), maintain the same compatibility as their base version (e.g. v3.4 Rev 0 or v3.4).

REVISION HISTORY

v1.2a – 2023-03-15

- Cyber Security
  - Critical: Fixed issue where logging into the unit via the front panel display would result in the front panel display becoming unresponsive.

v1.2 – 2022-06-10

- Enhancements:
  - Cyber Security
    - Added a message to the event log for user login attempts.
  - General
    - Added the ability to receive MMS Single Point Control (SPC) latched commands from IEC 61850 clients.
    - Added support for C37.118-2011 compliant IRIG clock sources.
    - Updated the default setting file to disable all Target LED assignments in the Output Matrix.
    - Optimized event handling on the display to improve performance when the IED is heavily loaded.
    - Improved ability to recover from cases where the front screen goes blank or is disturbed after extreme transient conditions.
    - Enhanced IED health monitoring capabilities to detect and automatically recover when the IED isn't behaving as expected.
    - Added error checking to detect and decline invalid calibration values during analog inputs calibration process.
- Major: Added a mechanism to prevent the unit from continuously restarting when no valid setting file is found. The unit enters a "survival" mode that allows the user to login and reset to factory default.
- Minor: 59 function trip status mapping corrected by moving the assignment from the Str to the Op Data Attribute for the IEC 61850 D59TOV1 and D059TOV2 Logical Nodes.

v1.1 – 2017-11-06

- Initial release for general availability.

v1.0 – 2014-08-28

- Beta release. Not for general availability.

CLASSIFICATION OF CHANGES MADE

The issues fixed in software / firmware upgrades are classified as defined below. While it is always the user's decision to upgrade installed products, these classifications provide a guideline for the need and priority of the upgrade.

Critical: Critical changes fix issues/problems that prevent the basic operation of the device and have no workaround. Critical changes merit a product upgrade as soon as possible, if that function is being used under the conditions causing the issue

Major: Major changes fix problems that prevent the basic operation of the device but do have a workaround. Any major changes merit a product upgrade as soon as possible if the function is being used under the conditions causing the issue and a workaround is not acceptable.

Minor: Minor changes fix non vital issues that do not prevent the basic operation of the device

and may or may not have a workaround. Product upgrades for such changes are not necessary unless they apply to and are needed by the user.

Enhancement: Feature enhancements add a capability or extend existing capabilities of the product. Upgrades for such changes need be made only if and when that feature enhancement is desired.