ERL 61850 IED Configurator

v4.3 Rev 0

Release Description

DATE: 2026-11-02

FEATURE ENHANCEMENTS

- Added an Upgrade CID option to the right-click menu to automatically upgrade the selected IED to a newer version while preserving the user's existing configuration.
- Added support for automatic Config Revision incrementing in GOCB and RCB configurations when associated data configurations are modified.
- Added support for Header attributes in exported SCL files.
- Added support for T-PRO 4500 firmware v2.3 with ICD file v4.0 Rev 03.

CORRECTIONS TO ISSUES

- None.

COMPATIBILITY

Product	Firmware Version	ICD File Version/Revision
TESLA 4000	v1.3 to v1.6	v2.0
	v1.7 to v2.3a	v3.0 Rev 01
	v2.4 and above	V3.1 Rev 02
TESLA 4000 Model 4000-A	v1.0 and v1.0a	v1.0 Rev 02
	v1.2 and above	V1.01 Rev 03
TESLA 4000 Model 4000-SV	v1.0	v1.0 Rev 03
	v1.1	v1.01 Rev 02
	v1.2	v1.01 Rev 04
	v1.2a	v1.01 Rev 09
	v1.3	v1.02 Rev 02
	v1.4a	v1.03 Rev 02
	v1.5 and above	v1.04 Rev 02
L-PRO 4000	v2.1	v0.0 Rev 07
	v2.2 to v2.4	v2.0 Rev 08
	v2.5 and above	v3.0 Rev 01

Customer Support Contact Information

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T-PRO 4000	v1.0 to v1.1	v2.0 Rev 07
	v1.2 and above	v3.0 Rev 01
B-PRO 4000	v2.0 and above	v1.0 Rev 09
B-PRO 4000 Multi-Busbar	v1.0 to v1.1	v3.0 Rev 08
	v1.2 and above	v3.1 Rev 02
S-PRO 4001	v1.0 and above	v3.0 Rev 01
F-PRO 4000	v1.0 and above	v2.0 Rev 08
L-PRO 4500	v1.0	v3.0 Rev 01
	v2.0	v3.0 Rev 02
	v2.1	v4.0 Rev 01
	v2.2	v4.0 Rev 02
	v2.3 and above	v4.0 Rev 03
T-PRO 4500	v1.0	v3.0 Rev 01
	v2.0	v3.0 Rev 02
	v2.1	v4.0 Rev 01
	v2.1 and above	v4.0 Rev 02
	v2.3 and above	v4.0 Rev 03
F-PRO 4500	v1.0 and above	v4.0 Rev 01
IO Expansion	v1.0 to v1.0a	v3.0 Rev 02
	v1.1 and above	v3.1 Rev 00
F-PRO 215	v1.0 to v1.9	v3.0 Rev 01
	v2.0 and above	v3.1 Rev 01
F-PRO 216	v1.0 to v1.2	v3.0 Rev 01
	v1.3 and above	v3.1 Rev 01
F-PRO 235	v1.0 to v2.4	v3.0 Rev 01
	v2.5 and above	v3.1 Rev 01
F-PRO 295	v1.0 to v1.3	v3.0 Rev 01
	v1.4 and above	v3.1 Rev 01
F-PRO 297	v1.0	v3.0 Rev 01
	v1.1 and above	v3.1 Rev 01
F-PRO 298	v1.0	v3.0 Rev 01
	v1.1 to v1.3	v3.1 Rev 01
	v1.4	v3.1 Rev 02
	v1.5	v4.0 Rev 01
	v1.6 and above	v4.0 Rev 04
M-PRO 2000	v1.0 and above	v4.0 Rev 01
T-PRO 2000	v1.0 and above	v4.0 Rev 01

61850 IED Configurator Manual	V3.5 Rev 0
Microsoft Windows	Windows 10 Professional (64bit) Windows 11 Professional (64bit)

Note: 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).

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REVISION HISTORY

V4.2 Rev 0 – 2026-01-05

- Enhancement: Added support for TESLA 4000-SV v1.5 firmware with ICD file v1.04 Rev 02.
- Minor: Fixed issue where the sample rate mismatch validation failed during SMV subscription mapping if the sample values are from IEC 61869-9 defined sample rates.

V4.1 Rev 1 – 2025-09-05

- Enhancement: Added support for TPRO 2000 v1.0 firmware with ICD file v4.0 Rev 01.
- Minor: Fixed an issue where using the clone option allowed adding multiple datasets incorrectly.

V4.1 Rev 0 – 2025-04-04

- Enhancement:Added support for Group Record Trigger mapping in GOOSE subscription
- Enhancement:Added support for TESLA 4000-A v1.2 firmware
- Enhancement:Added support for TESLA 4000 v2.4 firmware
- Minor:Fixed an issue where the remote publisher cannot be removed from the project if the project was created from v3.6 or older
- Minor:Fixed an issue where the print button is cutoff in GOOSE subscription mapping

V4.0 Rev 3 – 2025-02-14

- Added support for MPRO 2000 v1.0 firmware with ICD file v4.0 Rev 01.

V4.0 Rev 2 – 2024-09-24

- Enhancement: Added support for FPRO 4500 v1.0 firmware with ICD file v4.0 Rev 01.

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V4.0 Rev 1 – 2024-05-08

- Minor: Updated user manual to v3.4 Rev1, where the previous version of configurator includes an older version of user manual v3.3 in the installer.
- Minor: Fixed the issue where the Configurator installation folder was deleted when users canceled the installation during the update process.
- Minor: Fixed hyperlink issue under the Help About and Launch screen where the company website link was not functioning correctly.

V4.0 Rev 0 – 2024-04-05

- Enhancement: Upgrade the application from 32 bit to 64 bit.
- Enhancement: Optimized the performance of saving and opening a project file which contains large amount of IEDs in the project.
- Enhancement: Optimized the performance of adding SCD file which contains large amount of IEDs to the project.
- Enhancement: Significantly reduced project file size when saving the project with large amount of IEDs.
- Major: Fixed issue when send CID or export CID file failed in Configurator v3.6 if the project file was created prior to the version v3.6.

v3.6 Rev 0 – 2024-02-01

- Enhancement: Added support for TESLA 4000-SV v1.4 firmware with ICD file v1.03 Rev 02.
- Enhancement: Added ability to change Subnetwork name and the corresponding Access Point association.

v3.5 Rev 4 – 2023-06-19

- Enhancement: Added support for L-PRO 4500 v2.3 firmware.

v3.5 Rev 3 – 2022-11-17

- Minor: Added the following ICDs to the configurator as they were missing in v3.5 Rev 2:

  B-PRO 4000 Multi-Busbar: v3.1 Rev 02

  TPRO 4500: v4.0 Rev 02

  LPRO 4500: v4.0 Rev 02

v3.5 Rev 2 – 2022-09-02

- Enhancement: Added support for TESLA 4000 Model 4000-A v1.0 Firmware.

v3.5 Rev 1 – 2022-06-10

- Enhancement: Added support for B-PRO 4000 Multi-Busbar v1.2 firmware.

v3.5 Rev 0 – 2021-12-17

- Enhancement: Added support for TESLA 4000-SV v1.2a firmware and v1.3 firmware.
- Enhancement: Added support for GOOSE publishing on multiple ports. This was added in v3.4 Rev 0 release but not included in the user release description for that release.
- Minor: Fixed issue where only one LGOS and one LSVS was available in the dataset configuration, even when there were multiple GOOSE Control Blocks or Sampled Value streams available in the mapping.

v3.4 Rev 1 – 2021-09-29

- Enhancement: Added support for L-PRO 4500 v2.2 firmware.
- Enhancement: Added support for T-PRO 4500 v2.2 firmware.

v3.4 Rev 0 – 2021-07-05

- Enhancement: Added support for F-PRO 298 v1.6 firmware.
- Minor (All products): Removed the ability to create datasets with data from different Logical Devices. This feature was added in v3.2 but subsequent testing has revealed issues with IED firmware support.
- Minor (TESLA 4000-SV): Fixed issue where services section of every IED was validated during the export/upload CID process, instead of only the ERLPhase IEDs, resulting in false error messages.
- Minor (TESLA 4000-SV): Fixed issue where the GSE was created under the incorrect subnetwork when the SCT (System Configurator Tool) modified the order of the subnetworks in the communication section, the resultant SCD file was imported into the 61850 IED Configurator, and the 61850 IED Configurator was used to create a new GOOSE Control Block.

v3.3 Rev 1 – 2021-03-05

- Enhancement: Added support for T-PRO 4500 v2.1 firmware.
- Enhancement: Added support for L-PRO 4500 v2.1 firmware.
- Enhancement: Added support for F-PRO 298 v1.5 firmware.

v3.3 – 2021-02-26

- Enhancement: Replaced the “View GOOSE Mapping” feature with an enhanced “View Online Mapping” feature, which provides the ability to view Sampled Value mapping in addition to GOOSE mapping of the connected IED.
- Enhancement: Added support for functional device naming.
- Enhancement: Permanently allow GOOSE and Sampled Value supervision (LGOS and LSVS) mapping instead of manually having to enable it using the ‘GOOSE subscription supervision' checkbox. This change was made in v3.2.
- Major (B-PRO 4000 Multibus): Fixed issue where Sampled Value mapping was not possible on v1.1 FW and below. This issue was introduced in v3.1.
- Major (all): Fixed issue where project files created with v2.2 or earlier could not be edited.
- Minor (TESLA 4000-SV): Fixed issue where enumerated Virtual Input data types were treated as an int32u data type if the name given to the enumeration didn’t exactly match one of the supported data types of Dbpos or Health. The tool now evaluates the enumerations themselves to determine whether the data type is part of a supported data type.

v3.2 – 2020-11-13

- Enhancement: Added the ability to open and view IEC 61850 Ed 2.1 files with schema validation.

- Enhancement: Added support for GOOSE subscription mapping with data types of Dbpos (DPS Double Point Status), Health, INT32 and INT32U.
- Enhancement: Made the following enhancements to the GOOSE Subscriber screen:
    - Added a column showing the availability of Data Quality and Time for the mapped Virtual Input.
    - Added a column showing the data type of the mapped Virtual Input.
    - Added a user editable column to allow the user to enter a description of a mapped Virtual Input.
    - Added a column to allow the user to select whether to include the ExtRef entry for the corresponding unused VI in the Inputs section of the CID.
    - Added the ability to hide or view columns.
    - Added the ability to sort the mapped Virtual Inputs by any column.
- Enhancement: Eliminated the startup dialog requiring the setting of the system frequency. This setting has been moved to the Properties dialog for all products except the TESLA 4000-SV. This setting isn't required for the TESLA 4000-SV.
- Enhancement: Added the ability to create datasets with data from different Logical Devices.
- Enhancement (TESLA 4000-SV): Added support for an enhanced GOOSE subscription and data model, allowing for more intuitive configuration, and a more seamless transition between the 61850 IED Configurator tool and the System Configurator tool.
- Enhancement: Added support for GOOSE Subscription on multiple Subnetworks.

v3.1a – 2020-06-03

- Major: Fixed issue where an SCL file is prevented from loading in the Project Editor if the selected IED contains the definition for a control block without also providing the communication details for that block.
- Minor: Fixed issue where the sampled value mapping was blocked if the VLAN information was missing from the sampled value control block.

v3.1 – 2020-04-24

- Enhancement: Added support for the initial release of the TESLA 4000-2.
- Enhancement: Added support for sampled value mapping.
- Enhancement: Added support for mapping from multiple Access Points on a given IED.

v3.0 – 2020-03-09

- Enhancement: Added support for IEC 61850 Edition 2 GOOSE mapping.
- Enhancement: Added support for L-PRO 4500 Firmware v2.1.

v2.2 Rev 2 – 2019-12-26

- Enhancement: Added support for F-PRO 298 Firmware v1.4

v2.2 Rev 1 – 2019-07-19

- Enhancement: Added support for IO Expansion Firmware v1.1.

v2.2 – 2018-11-06

- Enhancement: Added support for L-PRO 4500 Firmware v2.0.
- Enhancement: Added support for T-PRO 4500 Firmware v2.0.
- Enhancement: Added the ability to configure the FTP port number used when connecting to IEDs.
- Enhancement: Added the ability to set the 5th octet of the multicast MAC Address of the Goose Control Block to any value from 00 to FF. Only 00 and 01 were previously allowed.

v2.1 Rev 1 – 2018-08-01

- Enhancement: Added support for F-PRO 297 Firmware v1.1.
- Enhancement: Added support for F-PRO 298 Firmware v1.1.

v2.1 – 2018-04-16

- Enhancement: Added login credential dialog box to support connecting to IEDs with user configurable FTP username and password.
- Enhancement: Added support for L-PRO 4500.
- Enhancement: Added support for T-PRO 4500.
- Enhancement: Added support for F-PRO 215.
- Enhancement: Added support for F-PRO 216.
- Enhancement: Added support for F-PRO 235.
- Enhancement: Added support for F-PRO 295.
- Enhancement: Added support for F-PRO 297.
- Enhancement: Added support for F-PRO 298.

v2.0 Rev 1 – 2015-06-26

- Enhancement: Added support for S-PRO 4001

v2.0 – 2015-02-14

- Enhancement: Sampled Value mapping.
- Enhancement: Sampled Value Control Block (add/delete/edit).

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.

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.

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.