

Introduction

This publication provides a historical summary of the changes made to the application firmware and hardware of the BE1-FLEX Protection, Automation, and Control System.

Revision history information for BESTCOMSP^{Plus}® software is provided in the *BESTCOMSP^{Plus} Software Revision History* document.

This information is provided for confidential use with the mutual understanding that it will not be used in any manner detrimental to the interests of Basler Electric.

Firmware Revision History

The revision history for BE1-FLEX application firmware is provided as follows. Revisions are presented in reverse chronological order.

Firmware Version and Date	Change			
1.03.00, April 2026	<ul style="list-style-type: none"> Added Motor Status Instance, 49TC protection element, 62 element Starts per Interval mode (66 function), and chart recorder functionality Added 60FL blocking to 21N element Added ability to clear fault records via BESTCOMSP^{Plus} Added Fast Current Detector (Current Detected) to the SOE filtering options Added user-defined RTD names to the HMI Corrected blank HMI screen after firmware upload issue Increased 87 element alarm setting range 			
1.02.00, March 2026	<ul style="list-style-type: none"> Maintenance release 			
1.01.03, June 2025	<ul style="list-style-type: none"> Added HMI recovery feature Changed default setting of Fault Recorder Prefault Cycles from 2 to 4 Updated handling of uninstantiated elements in DNP map Updated Trip LED operations Updated Fault Recorder handling for facilitation of additional record generation Updated BESTCOMSP^{Plus} for table curve rounding Corrected issue with HMIC drag and drop feature Corrected print issue in BESTCOMSP^{Plus} Corrected IEC 61850 GGIO limitation Future HMI assemblies require firmware version 1.01.03 or higher 			
1.01.01, Jun 2023	<ul style="list-style-type: none"> Improved differential protection (87) functionality Added sampling frequency detection to I4 channel of X6 and L2 boards Corrected IEC 61850 port timeout while uploading security settings 			
1.01.00, Feb 2023	<ul style="list-style-type: none"> Added IEC 61850 protocol Added HSR and PRP redundancy Added advanced HMIC editor Truncated HMI RTD metering Added Fault Recorder enabled option to 40Z when in Voltage Controlled mode Improved memory error correction 			
1.00.05, Sep 2022	<ul style="list-style-type: none"> Maintenance Release – Future W2 and E5 copper Ethernet boards require firmware 1.00.05 or higher 			
1.00.04, Apr 2022	<ul style="list-style-type: none"> Improved metered reference angle of current-only circuits 			
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Firmware Version and Date	Change
	<ul style="list-style-type: none"> Improved USB communications Corrected demand current threshold setting Corrected the nominal current component of the 46 curve in the 51 element Corrected time error that can occur when time is set after a power cycle or if time adjustment is large (years)
1.00.02, Dec 2021	<ul style="list-style-type: none"> Security Patch: Further restrict access to functions intended only for factory use Change privilege required for clearing Security Log from Security Audit to Administrator Corrected HMI Login Not Required for Alarm & Target Reset feature Force USB disconnect on system power down Corrections and improvements for Fault Reports Corrected Sequence of Events elapsed time inaccuracies under certain conditions Corrected issue that could cause Default Settings alarm to incorrectly appear after power cycle Added HMI Sleep and Shut Down functions Corrected 25A Breaker Close Attempts function Improved pulsed output logic functionality Other improvements
1.00.01, Jun 2021	<ul style="list-style-type: none"> Maintenance release
1.00.00, May 2021	<ul style="list-style-type: none"> Initial release

Hardware Revision History

The revision history for BE1-FLEX hardware is provided as follows. Revisions are presented in reverse chronological order.

Hardware Version and Date	Change
C, Dec 2024	<ul style="list-style-type: none"> Changed vendor of CT terminal block screws shipped with product
B, Apr 2023	<ul style="list-style-type: none"> Maintenance release on communication boards
A, Feb 2023	<ul style="list-style-type: none"> Improved backup battery assembly
—, May 2021	<ul style="list-style-type: none"> Initial release

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