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1. Introduction

Observation: For traceability reasons, the product revision is changed when there is an enhancement in its functional features or any change of the manufactory process and/or raw material. In the case that the user cannot find on the following tables the reason of the product revision, it is implicit that there was a change in the internal manufactory process and/or hardware, without affects the product functionality/compatibility.

Software available at https://smartstore.beijerelectronics.com/
Update procedures & support details visit https://www.beijerelectronics.com/

2. Nexto Series

2.1 BCS-XP300 - COMPACT PLC 16DI 16DO - BJ

REV	Description	Version	Date
ВР	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
ВО	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
BN	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	19/02/2025
ВМ	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024
BL	 Updated the electrical circuit of the product's overlay, which 	1.14.36.4	09/12/2024

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		is now fixed to the connector in a different way, providing		
		additional security when fixing the overlay. Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
		Support for BCS Tools 3.63		
		Included support to the new diagnostic bNetDefinedByWeb		
		(requires BCS Tools 3.63 or greater)		
	•	Improvements on System Web Page to enhance the		
		reliability and usability.		
	•	Fixed a problem which would prevent the communication		
		between BCS Tools and CPU when using "enforced encryption" option.		
		Fixed a problem where the internal RS-485 termination was		
DIZ		always turned on, independently of the setting selected on	1 14 26 4	20/00/2024
BK		CPU configuration screen.	1.14.36.4	30/09/2024
	•	Fixed a problem on firmware update where the process		
		could fail unexpectedly or take longer than expected.		
	•	Fixed a problem on OpenVPN where it could incorrectly		
		show a valid certificate as invalid. Fixed a problem on CAN interface which could cause		
	•	communication errors with baudrate below 500kbit/s		
		Fixed visual issues on Firewall section of System Web Page		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Support for BCS Tools 3.61		
	-	Included support for FTP		
	•	Improvements on System Web Page		
		 Changed the timezone of the Clock Setting to match the user's computer. 		
		 Fixed error that could make the firewall rules not to be 		
		applied when the selected interfaces was "any"		
		Improved firmware update time		
	•	Removed restriction of local network to perform a firmware		
		update, now allowing to execute this operation remotely.		
	•	Limited the maximum number of OPC UA Server sessions		
	_	to 50 Improvement in the backup of retentive data of the		
BJ	_	Application		
D		Fixed an issue that could make the current Application of the	1.14.20.0	08/02/2024
		device not to be erased when transfering a new Application		
		through the USB		
	-	Fixed a problem where the Ethernet port could stop to work		
	_	on high traffic scenario		
	•	Fixed an incompatibility between USB Ethernet Adapter and VPN		
		Fixed an issue where it was not possible to create a user		
		(User Management)		
	•	Fixed a problem introduced on version 1.12.24.0 which was		
		making the CPU status on the treeview to become a red		
		triangle when using BCS Tools version lower than 3.40		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
1		Improvement in the product packaging process, where the		
		connectors are now assembled instead of being delivered in		
BI		connectors are now assembled instead of being delivered in a zip bag.	1.12.29 0	19/12/2023
BI		a zip bag.	1.12.29.0	19/12/2023
BI			1.12.29.0	19/12/2023
ВІ		a zip bag. Info: This version was built with CODESYS Control	1.12.29.0	19/12/2023
ВІ	-	a zip bag. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. Improvement of the mecanic pieces of the product. Info: This version was built with CODESYS Control	1.12.29.0	19/12/2023 06/11/2023
	•	a zip bag. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. Improvement of the mecanic pieces of the product.		

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Date(dd/mm/yyyy): 10/06/2025

	1			
		operation temperature of - 20°C.		
	-	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.15.0.		
		Included support for USB WiFi adapters.		
	•	Included suppport for additional USB modem devices:		
	_	Huawei E3276 and E8372.		
	•	Fixed a problem on the PTO fast output that could		
		potentially turn on the next normal digital output.		
	-	Fixed a problem where the digital input value was not		
		updated on the execution of external interrupt task.		
AR	_	Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side,	1.9.17.0	18/08/2020
		which was previously required under some circumstances to		
		show the page correctly.		
	-	Updated the product label for compliance of the UL		
		certification, File Number E496087.		
	-	Included protectors for the product connectors.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
		Improved performance (CPU clock increased by 85% with		
		bootloader version 1.0.0.15 included on this version).		
	-	Included support to USB modem.		
	-	Included support to TLS v1.2 and client certificate in the		
		Function Block MQTT Client (the last one requires the BCS		
		Tools 3.23 or greater).		
	-	Improved immunity level of RTD inputs against external		
		electromagnetic interferences.		
	-	Fixed a problem that could cause corruption of operating		
40		system in case of engergy interruption during a specific	1.9.9.0	29/05/2020
AQ		moment of power-up process, leading the controller to a	1.9.9.0	29/03/2020
		permanent inoperative state.		
	•	Fixed a problem on CANopen Remote I/O mode which		
		could eventually prevent the controller from starting up.		
	-	Fixed a problem that could make the DG LED to blink 4x		
		with no reason.		
	•	Improvements on CANopen Remote I/O mode.		
	•	Improvements on serial communication.		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	-	Included support for USB Serial RS-232 converter		
A.D.	•	Included support for the latest version of LibSQLClient	10110	00/01/2020
AP	_	library.	1.8.11.0	09/01/2020
	•	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.15.0.		
	•	Included support for CANopen Manager (requires BCS		
		Tools 3.19 or greater). Included support for MQTT Client Function Block (requires		
	_	BCS Tools 3.19 or greater).		
		Fixed the diagnostic		
		tDetailed.Serial.COM1.wRXPendingBytes which stopped to		
		work on previous version, affecting the Function Block of		
AO		Serial communication.	1.8.5.0	11/12/2019
	-	Fixed a situation that could cause a drift of RTC time higher		
		than the specified.		
	-	Included support for CAN termination configuration,		
		introduced on BCS Tools 3.19.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
		Included bootloader version 1.0.0.11, which increases the		
AN		immunity level against external electromagnetic	1.7.49.0	27/09/2019
		interferences. The bootloader is now included inside the		
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	firmware image file, and will be updated automatically during the firmware update process ONLY if the controller is running with version 1.7.49.0 or greater. If the firmware update process is performed on a controller with an installed firmware lower than 1.7.49.0, it is required to perform the update procedure AGAIN (i.e, twice, to the same version) to have the bootloader updated. Included support for Ethernet/IP Scanner. Included support for I/O expansion through CANopen (CANopen Slave mode). Included support for 2400 and 4800 bits/s baudrates on the serial communication. Improvements on MODBUS RTU Slave timing, where sporadic communication errors could occur on a RS-485 network composed by several slaves. Changed maximum source code size from 16MB to 26MB (requires a reboot with no apllication to apply this increase; the warning message updated on version 3.18 of BCS Tools). Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application.		
	 Improved mounting of USB mass storage devices, increasing the compatibility with certain models of flash drives. Fixed maximum number of ARTI/OPC DA connections 		
	from 4 to 8. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60.		
AM	 Fixed generation of counter interrupt. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.40.0	07/09/2019
AL	 Replacement for the overlay flat cable connector part number and change in the insertion procedure. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.35.0	06/06/2019
AK	 Included support for new homologated memories Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.35.0	21/05/2019
АЈ	 Fixed external input I02, which stopped to work on previous version. Improvements on fast inputs and outputs. Improvements on the USB mass storage mounting system. Improved EMC immunity level Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.32.0	09/05/2019
AI	 Included support for OPC UA protocol Included support for MSSQL_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Included support for Fast I/O (counters, external interrupts, PTO/PWM outputs). Included support for FAT32 LBA filesystem, used on big capacity USB mass storage devices. Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Fixed a problem on RS-485 serial driver, which could cause 	1.7.17.0	15/03/2019
	random errors on MODBUS RTU communication. • Fixed an RTD reading error that affected a small group of		

	 manufactured units Changed the value of some resistors and capacitors for standarization with other products (does not affects product's technical characteristics) Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.12.60.		
АН	 Change in manufacturing documentation to include additional information for soldering the CPU crystal. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.7.0	30/01/2019
AG	 Changed to update status of digital input LEDs even with no application loaded Changed to blink 1x the DG LED when no application is loaded Fixed company name on "Target Vendor" field on gateway scan Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.7.0	05/12/2018
AF	 Improved LED diagnostic indication Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.5.0	12/11/2018
AE	 Included support for USB mass storage devices Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.3.0	26/10/2018
AD	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.40. 	1.7.0.12	10/10/2018

2.2 BCS-XP315 - COMPACT PLC 16DI 16DO 5AI 2RTD - BJ

REV	Description	Version	Date
ВQ	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
ВР	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
ВО	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	19/02/2025
BN	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024
BM	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. Info: This version was built with CODESYS Control 	1.14.36.4	23/10/2024

		Runtime Toolkit 3.5.18.60.		
	_			
	_	Updated the electrical circuit of the product's overlay, which is now fixed to the connector in a different way, providing		
BL		additional security when fixing the overlay.	1.14.36.4	07/10/2024
DL		Info: This version was built with CODESYS Control	1.14.50.4	07/10/2024
		Runtime Toolkit 3.5.18.60.		
	•	Support for BCS Tools 3.63		
	-	Included support to the new diagnostic bNetDefinedByWeb		
		(requires BCS Tools 3.63 or greater)		
	•	Improvements on System Web Page to enhance the		
		reliability and usability.		
	-	Fixed a problem which would prevent the communication		
		between BCS Tools and CPU when using "enforced		
	_	encryption" option.		
	-	Fixed a problem where the internal RS-485 termination was		
BK		always turned on, independently of the setting selected on CPU configuration screen.	1.14.36.4	30/09/2024
		Fixed a problem on firmware update where the process		
		could fail unexpectedly or take longer than expected.		
	-	Fixed a problem on OpenVPN where it could incorrectly		
		show a valid certificate as invalid.		
	•	Fixed a problem on CAN interface which could cause		
		communication errors with baudrate below 500kbit/s		
	-	Fixed visual issues on Firewall section of System Web Page		
	•	Info: This version was built with CODESYS Control		
	•	Runtime Toolkit 3.5.18.60. Support for BCS Tools 3.61		
	_	Included support for FTP		
	-	Improvements on System Web Page		
		• Changed the timezone of the Clock Setting to match the		
		user's computer.		
		• Fixed error that could make the firewall rules not to be		
		applied when the selected interfaces was "any"		
	-	Improved firmware update time		
	-	Removed restriction of local network to perform a firmware		
	_	update, now allowing to execute this operation remotely.		
	-	Limited the maximum number of OPC UA Server sessions to 50		
		Improvement in the backup of retentive data of the		
D.1		Application	1 1 4 20 0	0040040004
BJ	-	Fixed an issue that could make the current Application of the	1.14.20.0	08/02/2024
		device not to be erased when transfering a new Application		
		through the USB		
	•	Fixed a problem where the Ethernet port could stop to work		
	_	on high traffic scenario		
	•	Fixed an incompatibility between USB Ethernet Adapter and VPN		
		Fixed an issue where it was not possible to create a user		
		(User Management)		
	•	Fixed a problem introduced on version 1.12.24.0 which was		
		making the CPU status on the treeview to become a red		
		triangle when using BCS Tools version lower than 3.40		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Improvement in the product packaging process, where the		
DI		connectors are now assembled instead of being delivered in	1 12 20 0	10/12/2022
BI		a zip bag. Info: This version was built with CODESYS Control	1.12.29.0	19/12/2023
	_	Runtime Toolkit 3.5.17.40.		
DII		Improvement of the mecanic pieces of the product.	1 12 22 2	06/44/2000
ВН	•	Info: This version was built with CODESYS Control	1.12.29.0	06/11/2023

	Runtime Toolkit 3.5.17.40.		
BG BF	 Support for BCS Tools 3.52. New graphical design of System Web Page. Included support on System Web Page to set the PLC clock (time/date). Removed the requirement of PLC in STOP to perform a firmware update (now it will stop automatically). Included support to allow changing the Default Gateway of a network interface through SysSockSetDefaultGateway. Included support to identify the device through the "wink" command on programming tool. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. Fixed a problem introduced on the previous version, where the CAN Remote Mode stopped to work. Improvement on the MQTT to support multi-level topics wildcard ('#'). 	1.12.29.0	05/09/2023
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 		
BE	 Support for BCS Tools 3.51. Included support to OpenVPN, Firewall and USB-Ethernet Adapter. Improvements on System Web Page: Included configuration for OpenVPN, Firewall and USB-Ethernet Adapter. New Network tab, which now allows to change the IP configuration and also re-introduces the embedded network sniffer. Login unification (now it will be requested only in the Management tab). After the update, the credentials will be reset to default. Optimization in the time required to perform the firmware update process. Fixed USB modem problem where the controller could suffer a memory leak when the modem reconnect multiple times. Fixed interoperability problem where the Ethernet/IP stop to communicate after inserting/configuring an USB modem. Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.24.0	21/06/2023
BD	 Hardware improvement to suport new PHY component (shortage issue) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.5.5	25/01/2023
ВС	 Fixed a problem where the Ethernet port could eventually fail to communicate when connecting the controller directly to a computer (point-to-point). Fixed CANopen Slave problem where the controller could not resume the communication after a failure in the CAN bus. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.5.5	16/01/2023
ВВ	 Support for BCS Tools 3.40. Fixed a problem where 3G/4G Modem could fail to reconnect after a communication failure. Increased the storage capability for the source code, stored now on a 64MB space that is shared with application and Webvisu files. It is necessary to reboot the controller without application to make this new space available. The source code size verification (warning message) was updated 	1.12.5.3	15/12/2022

	l _	I.C. This are an I it is COREGING Co. 1		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Change in the product hardware to support minimum		
AS		operation temperature of - 20°C.	1.9.17.0	28/12/2020
	•	Info: This version was built with CODESYS Control		
	•	Runtime Toolkit 3.5.15.0.		
		Included support for USB WiFi adapters. Included support for additional USB modem devices:		
		Huawei E3276 and E8372.		
	-	Fixed a problem on the PTO fast output that could		
		potentially turn on the next normal digital output.		
	-	Fixed a problem that could lead to a negative offset on RTD		
		reading.		
	-	Fixed a problem where the digital input value was not		
AR	_	updated on the execution of external interrupt task.	1.9.17.0	18/08/2020
	•	Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side,		
		which was previously required under some circumstances to		
		show the page correctly.		
	-	Updated the product label for compliance of the UL		
		certification, File Number E496087.		
	•	Included protectors for the product connectors.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Improved performance (CPU clock increased by 85% with		
		bootloader version 1.0.0.15 included on this version). Included support to USB modem.		
		Included support to USB modeln. Included support to TLS v1.2 and client certificate in the		
		Function Block MQTT Client (the last one requires the BCS		
		Tools 3.23 or greater).		
	•	Improved immunity level of RTD inputs against external		
		electromagnetic interferences.		
AQ	•	Fixed a problem that could cause corruption of operating	1.9.9.0	29/05/2020
		system in case of engergy interruption during a specific	-1,71,710	_,,,,,,,,
		moment of power-up process, leading the controller to a		
		permanent inoperative state. Fixed a problem on CANopen Remote I/O mode which		
		could eventually prevent the controller from starting up.		
	•	Improvements on CANopen Remote I/O mode.		
	•	Improvements on serial communication.		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Included support for USB Serial RS-232 converter		
ΛD	•	Included support for the latest version of LibSQLClient	1.8.11.0	00/01/2020
AP		library. Info: This version was built with CODESYS Control	1.0.11.0	09/01/2020
	_	Runtime Toolkit 3.5.15.0.		
	•	Included support for CANopen Manager (requires BCS		
		Tools 3.19 or greater).		
	•	Included support for MQTT Client Function Block (requires		
		BCS Tools 3.19 or greater).		
	•	Fixed the diagnostic		
		tDetailed.Serial.COM1.wRXPendingBytes which stopped to		
AO		work on previous version, affecting the Function Block of Serial communication.	1.8.5.0	11/12/2019
		Fixed a situation that could cause a drift of RTC time higher		
	_	than the specified.		
	•	Included support for CAN termination configuration,		
		introduced on BCS Tools 3.19.		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		

-			
AN	 Included bootloader version 1.0.0.11, which increases the immunity level against external electromagnetic interferences. The bootloader is now included inside the firmware image file, and will be updated automatically during the firmware update process ONLY if the controller is running with version 1.7.49.0 or greater. If the firmware update process is performed on a controller with an installe firmware lower than 1.7.49.0, it is required to perform the update procedure AGAIN (i.e., twice, to the same version) have the bootloader updated. Included support for Ethernet/IP Scanner. Included support for I/O expansion through CANopen (CANopen Slave mode). Included support for 2400 and 4800 bits/s baudrates on the serial communication. Improvements on MODBUS RTU Slave timing, where sporadic communication errors could occur on a RS-485 network composed by several slaves. Changed maximum source code size from 16MB to 26MB (requires a reboot with no apllication to apply this increase the warning message updated on version 3.18 of BCS Tools). Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application. Improved mounting of USB mass storage devices, increasing the compatibility with certain models of flash drives. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.49.0	27/09/2019
AM	 Fixed generation of counter interrupt. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.40.0	07/09/2019
AL	 Replacement for the overlay flat cable connector part number and change in the insertion procedure. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.35.0	06/06/2019
AK	 Included support for new homologated memories Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.35.0	21/05/2019
AJ	 Fixed external input IO2, which stopped to work on previous version. Improvements on fast inputs and outputs. Improvements on the USB mass storage mounting system. Improved EMC immunity level Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.32.0	09/05/2019
AI	 Included support for OPC UA protocol Included support for MSSQL_Client Function Block f accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 at 8.8.4.4) Included support for Fast I/O (counters, external interrupt PTO/PWM outputs,) Included support for FAT32 LBA filesystem, used on b capacity USB mass storage devices Fixed a problem on function GetTimeZone, which cou cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWee functions, which could cause peak on execution time. 	1.7.17.0 ig	15/03/2019

	 Fixed a problem on RS-485 serial driver, which could cause random errors on MODBUS RTU communication Fixed an RTD reading error that affected a small group of manufactured units Changed the value of some resistors and capacitors for standarization with other products (does not affects product's technical characteristics) Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.12.60.		
АН	 Change in manufacturing documentation to include additional information for soldering the CPU crystal. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.7.0	30/01/2019
AG	 Changed to update status of digital input LEDs even with no application loaded Changed to blink 1x the DG LED when no application is loaded Fixed company name on "Target Vendor" field on gateway scan Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.7.0	05/12/2018
AF	 Improved LED diagnostic indication Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.5.0	12/11/2018
AE	 Included support for USB mass storage devices Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.3.0	26/10/2018
AD	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.40. 	1.7.0.12	10/10/2018

2.3 BCS-XP325 - COMPACT PLC 16DI 16DO 5AI 4AO 2RTD - BJ

REV	Description	Version	Date
BU	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
ВТ	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
BS	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/02/2025
BR	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024

BQ	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	16/10/2024
ВР	 Updated the electrical circuit of the product's overlay, which is now fixed to the connector in a different way, providing additional security when fixing the overlay. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	03/10/2024
ВО	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem where the internal RS-485 termination was always turned on, independently of the setting selected on CPU configuration screen. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on OpenVPN where it could incorrectly show a valid certificate as invalid. Fixed a problem on CAN interface which could cause communication errors with baudrate below 500kbit/s Fixed visual issues on Firewall section of System Web Page Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. Support for BCS Tools 3.61 	1.14.36.4	30/09/2024
BN	 Included support for FTP Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. Limited the maximum number of OPC UA Server sessions to 50 Improvement in the backup of retentive data of the Application Fixed an issue that could make the current Application of the device not to be erased when transfering a new Application through the USB Fixed a problem where the Ethernet port could stop to work on high traffic scenario Fixed an incompatibility between USB Ethernet Adapter and VPN Fixed an issue where it was not possible to create a user (User Management) Fixed a problem introduced on version 1.12.24.0 which was making the CPU status on the treeview to become a red triangle when using BCS Tools version lower than 3.40 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.20.0	08/02/2024
ВМ	Improvement in the product packaging process, where the connectors are now assembled instead of being delivered in a zip bag.	1.12.29.0	19/12/2023

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	Info: This version was built with CODESYS Control		
	Runtime Toolkit 3.5.17.40.		
BL	 Improvement of the mecanic pieces of the product. Info: This version was built with CODESYS Control 	1.12.29.0	06/11/2023
DL	Runtime Toolkit 3.5.17.40.	1.12.29.0	00/11/2023
	Support for BCS Tools 3.52.		
	 Support for BCS Tools 5.52. New graphical design of System Web Page. 		
	 Included support on System Web Page to set the PLC clock 		
	(time/date).		
	Removed the requirement of PLC in STOP to perform a		
DIZ	firmware update (now it will stop automatically).	1 12 20 0	07,100,100,20
BK	 Included support to allow changing the Default Gateway of a 	1.12.29.0	05/09/2023
	network interface through SysSockSetDefaultGateway.		
	 Included support to identify the device through the "wink" 		
	command on programming tool.		
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.17.40.		
	• Fixed a problem introduced on the previous version, where		
	the CAN Remote Mode stopped to work.		
BJ	Improvement on the MQTT to support multi-level topics	1.12.24.3	04/08/2023
	wildcard ('#').		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 		
	Support for BCS Tools 3.51.		
	 Support for BCS 100IS 3.51. Included support to OpenVPN, Firewall and USB-Ethernet 		
	Adapter.		
	Improvements on System Web Page:		
	 Included configuration for OpenVPN, Firewall and USB- 		
	Ethernet Adapter.		
	 New Network tab, which now allows to change the IP 		
	configuration and also re-introduces the embedded network		
	sniffer.		
	 Login unification (now it will be requested only in the 		
BI	Management tab). After the update, the credentials will be	1.12.24.0	21/06/2023
Di	reset to default.	1.12.24.0	21/00/2023
	 Optimization in the time required to perform the firmware 		
	update process.		
	• Fixed USB modem problem where the controller could		
	suffer a memory leak when the modem reconnect multiple times.		
	 Fixed interoperability problem where the Ethernet/IP stop to 		
	communicate after inserting/configuring an USB modem.		
	Fixed OPC UA interoperability with Kepware.		
	Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.17.40.		
	 Hardware improvement to suport new PHY component 		
ВН	(shortage issue)	1.12.5.5	25/01/2023
ВΠ	 Info: This version was built with CODESYS Control 	1.12.3.3	23/01/2023
	Runtime Toolkit 3.5.17.40.		
	• Fixed a problem where the Ethernet port could eventually		
	fail to communicate when connecting the controller directly		
BG	to a computer (point-to-point).		
	• Fixed CANopen Slave problem where the controller could	1.12.5.5	16/01/2023
	not resume the communication after a failure in the CAN		
	bus. Info: This version was built with CODESYS Control		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 		
	Support for BCS Tools 3.40.Fixed a problem where 3G/4G Modem could fail to		
BF	reconnect after a communication failure.	1.12.5.3	15/12/2022
	 Increased the storage capability for the source code, stored 		

	now on a 64MB space that is shared with application and Webvisu files. It is necessary to reboot the controller without application to make this new space available. The source code size verification (warning message) was updated accordingly on BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed the retain system to keep the values after a reboot caused by an internal software error. Fixed potential exception when an application is removed (reset origin). Included support for additional analog inputs using LibIntegratedIoExt introduced on BCS Tools 3.40. Info: This version was built with CODESYS Control		
BE	 Runtime Toolkit 3.5.17.40. Minor hardware changes in order to improve the product. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	06/12/2022
BD	 Improvement in the production process. Changed RTD settings in product testing. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	04/07/2022
ВС	 Minor hardware adjustments to support a new alternative part number (due to the shortage of electronic components). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	27/05/2022
ВВ	 Minor hardware adjustments to support a new alternative part number (due to the shortage of electronic components). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	04/03/2022
BA	 Changes in the source code shared with other products that doesn't affect this product behavior. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	18/01/2022
AZ	 Small changes in the product's hardware to improve font startup behavior, making startup faster. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.2.0	27/10/2021
AY	 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Included login mechanism for operation mode page in web interface. Included a new reset mechanism to solve connection failures of USB modem. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.2.0	26/07/2021
-	 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Included support for PROFINET Controller. Included support to CAN J1939. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.9.29.0	26/07/2021
AX	■ Included support for "number of connected clients"	1.9.25.0	13/01/2021

Beijer Electronics AB

Date(dd/mm/yyyy): 10/06/2025

	•	Included support for CAN termination configuration,		
		introduced on BCS Tools 3.19.		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Included bootloader version 1.0.0.11, which increases the		
		immunity level against external electromagnetic		
		interferences. The bootloader is now included inside the		
		firmware image file, and will be updated automatically		
		during the firmware update process ONLY if the controller		
		is running with version 1.7.49.0 or greater. If the firmware		
		update process is performed on a controller with an installed		
		firmware lower than 1.7.49.0, it is required to perform the update procedure AGAIN (i.e, twice, to the same version) to		
		have the bootloader updated.		
		Included support for Ethernet/IP Scanner.		
		Included support for I/O expansion through CANopen		
		(CANopen Slave mode).		
		Included support for 2400 and 4800 bits/s baudrates on the		
		serial communication.		
AQ	-	Improvements on MODBUS RTU Slave timing, where	1.7.49.0	27/09/2019
		sporadic communication errors could occur on a RS-485		
		network composed by several slaves.		
	•	Changed maximum source code size from 16MB to 26MB		
		(requires a reboot with no application to apply this increase;		
		the warning message updated on version 3.18 of BCS		
		Tools).		
	•	Fixed EasyConnection behavior, where the application was		
		not being erased after applying the new IP adress, resulting		
		on returning to the IP address set by the application.		
	•	Improved mounting of USB mass storage devices, increasing		
	_	the compatibility with certain models of flash drives.		
	•	Fixed maximum number of ARTI/OPC DA connections from 4 to 8.		
		Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.12.60.		
		Fixed generation of counter interrupt.		
AP		Info: This version was built with CODESYS Control	1.7.40.0	07/09/2019
7 11		Runtime Toolkit 3.5.12.60.	1.7.10.0	0110512015
		Replacement for the overlay flat cable connector part		
		number and change in the insertion procedure.		
AO		Info: This version was built with CODESYS Control	1.7.35.0	06/06/2019
		Runtime Toolkit 3.5.12.60.		
	-	Included support for new homologated memories		
AN	•	Info: This version was built with CODESYS Control	1.7.35.0	21/05/2019
		Runtime Toolkit 3.5.12.60.		
	•	Fixed external input I02, which stopped to work on previous		
		version.		
	•	Improvements on fast inputs and outputs.		
AM	•	Improvements on the USB mass storage mounting system.	1.7.32.0	09/05/2019
	•	Improvements in CANopen Manager performance.	1.7.02.0	05.05.2015
	•	Improved EMC immunity level		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Included support for OPC UA protocol		
	•	Included support for MSSQL_Client Function Block for		
		accessing Microsoft databases.		
AL	_	Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4)	1.7.17.0	15/03/2019
		Included support for Fast I/O (counters, external interrupts,		
	_	PTO/PWM outputs,)		
		Included support for CANopen Manager		
	l			

	•	Included support for FAT32 LBA filesystem, used on big		
	_	capacity USB mass storage devices		
	-	Fixed a problem on function GetTimeZone, which could		
		cause an exception leading the CPU to STOP.		
	_	Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time.		
		Fixed a problem on RS-485 serial driver, which could cause		
	_	random errors on MODBUS RTU communication		
		Fixed an RTD reading error that affected a small group of		
		manufactured units		
		Changed the value of some resistors and capacitors for		
		standarization with other products (does not affects		
		product's technical characteristics)		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Change in manufacturing documentation to include		
A 17		additional information for soldering the CPU crystal.	1.7.7.6	20/01/2010
AK	•	Info: This version was built with CODESYS Control	1.7.7.0	30/01/2019
		Runtime Toolkit 3.5.12.60.		
	•	Changed to update status of digital input LEDs even with no		
		application loaded		
	-	Changed to blink 1x the DG LED when no application is		
		loaded		
	•	Fixed company name on "Target Vendor" field on gateway		
AJ		scan	1.7.7.0	05/12/2018
	•	Removed log message generated when the system time is		
		updated by SNTP (to avoid log being flooded with this		
	_	message)		
	-	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.12.60.		
AI	•	Improved LED diagnostic indication Info: This version was built with CODESYS Control	1.7.5.0	12/11/2018
AI	_	Runtime Toolkit 3.5.12.60.	1.7.3.0	12/11/2018
		Included support for USB mass storage devices		
AH	_	Info: This version was built with CODESYS Control	1.7.3.0	26/10/2018
		Runtime Toolkit 3.5.12.60.	1.7.5.0	20/10/2010
		Initial revision.	1.7.0.12	0.12
AG	-	Info: This version was built with CODESYS Control	1.7.0.12	10/10/2018
7.0		Runtime Toolkit 3.5.12.40.		10/10/2010
	l	Turning Toomit Signiff. 101		

2.4 BCS-XP340 - COMPACT PLC 16DI 16DO 5AI 4AO 2RTD WEB - BJ

REV	Description	Version	Date
ВВ	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
BA	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AZ	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/02/2025

AY	firmware could be corrupt unable to boot again (brice	ilt with CODESYS Control	36.6 16/12/2024
AX	 This new product revision documentation, in which s which did not affect this p 	refers to changes in internal similar products were changed, product. 1.14 1.14	36.4 12/11/2024
AW	 (requires BCS Tools 3.63 Improvements on System reliability and usability. Fixed a problem which we between BCS Tools and Cencryption" option. Fixed a problem where the always turned on, independent CPU configuration screen. Fixed a problem on firmwest could fail unexpectedly on Fixed a problem on Opendent show a valid certificate as. Fixed a problem on CAN communication errors wit. Fixed visual issues on Fixed. Fixed a problem on WebVerside. 1.14.20.0 which could cauthe application. 	w diagnostic bNetDefinedByWeb or greater) Web Page to enhance the buld prevent the communication CPU when using "enforced e internal RS-485 termination was idently of the setting selected on a rare update where the process take longer than expected. WPN where it could incorrectly invalid. interface which could cause h baudrate below 500kbit/s ewall section of System Web Page Visu introduced on version are a PLC reset when downloading tilt with CODESYS Control	36.4 30/09/2024
AV	user's computer. Fixed error that could applied when the sele. Fixed a problem related to WebVisu where the control Application use it. Improved firmware update. Removed restriction of locupdate, now allowing to e. Limited the maximum numbers to 50. Improvement in the backur Application. Fixed an issue that could indevice not to be erased what through the USB. Fixed a problem where the on high traffic scenario. Fixed an incompatibility by VPN. Fixed an issue where it was (User Management). Fixed a problem introduce.	Web Page e of the Clock Setting to match the I make the firewall rules not to be exted interfaces was "any" the Trend Graphic of the oller could restart if the e time cal network to perform a firmware execute this operation remotely. mber of OPC UA Server sessions 1.14.	20.0 08/02/2024

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-	 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Included support for PROFINET Controller. Included support to CAN J1939. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.9.29.0	26/07/2021
AF	 Included support for "number of connected clients" diagnostic in status bar. To see this diagnostic, BCS Tools version 3.31 or greater is required. Removed the hidden page "getlogs" from the system web page to improve cyber security. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.9.25.0	13/01/2021
AE	 Change in the product hardware to support minimum operation temperature of - 20°C. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.9.17.0	28/12/2020
AD	 Included support for USB WiFi adapters. Included suppport for additional USB modem devices: Huawei E3276 and E8372. Fixed a problem on the PTO fast output that could potentially turn on the next normal digital output. Fixed a problem that could lead to a negative offset on RTD reading. Fixed a problem where the digital input value was not updated on the execution of external interrupt task. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly. Updated the product label for compliance of the UL certification, File Number E496087. Included protectors for the product connectors. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.9.17.0	18/08/2020
AC	 Improved performance (CPU clock increased by 85% with bootloader version 1.0.0.15 included on this version). Included support for IEC 104 Server protocol (requires BCS Tools 3.23 or greater) Included support to USB modem. Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tools 3.23 or greater). Improved immunity level of RTD inputs against external electromagnetic interferences. Fixed a problem that could eventually generate an error when downloading an application with Webvisu. Fixed a problem that could cause corruption of operating system in case of engergy interruption during a specific moment of power-up process, leading the controller to a permanent inoperative state. Fixed a problem on CANopen Remote I/O mode which could eventually prevent the controller from starting up. Improvements on CANopen Remote I/O mode. Improvements on serial communication. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.9.9.0	29/05/2020
AB	 Included support for USB Serial RS-232 converter Included support for the latest version of LibSQLClient library. 	1.8.11.0	09/01/2020

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	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 		
	Initial revision.	1.8.5.0	
AA	 Info: This version was built with CODESYS Control 		11/12/2019
	Runtime Toolkit 3.5.15.0.		

2.5 BCS-XP350 - COMPACT PLC 16DI 16DO 5AI 2RTD MOTION - BJ

REV	Description	Version	Date
AP	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
AO	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AN	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/03/2025
AM	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/02/2025
AL	 Updated the electrical circuit of the product's overlay, which is now fixed to the connector in a different way, providing additional security when fixing the overlay. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. Updated the product label for compliance of the UL certification, File Number E496087. 	1.14.36.6	23/01/2025
AK	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024
AJ	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem where the internal RS-485 termination was always turned on, independently of the setting selected on CPU configuration screen. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on OpenVPN where it could incorrectly 	1.14.36.4	30/09/2024

	1			
		show a valid certificate as invalid.		
	•	Fixed a problem on CAN interface which could cause		
		communication errors with baudrate below 500kbit/s		
	_	Fixed visual issues on Firewall section of System Web Page Info: This version was built with CODESYS Control		
	•			
	_	Runtime Toolkit 3.5.18.60.		
	•	Support for BCS Tools 3.61		
		Included support for FTP		
	-	Improvements on System Web Page Changed the timezone of the Clock Setting to metal the		
		 Changed the timezone of the Clock Setting to match the user's computer. 		
		 Fixed error that could make the firewall rules not to be 		
		applied when the selected interfaces was "any"		
		Improved firmware update time		
		Removed restriction of local network to perform a firmware		
		update, now allowing to execute this operation remotely.		
		Limited the maximum number of OPC UA Server sessions		
		to 50		
		Improvement in the backup of retentive data of the		
AI		Application		
	-	Fixed an issue that could make the current Application of the	1.14.20.0	08/02/2024
		device not to be erased when transfering a new Application		
		through the USB		
	•	Fixed a problem where the Ethernet port could stop to work		
		on high traffic scenario		
	•	Fixed an incompatibility between USB Ethernet Adapter and		
		VPN		
	•	Fixed an issue where it was not possible to create a user		
		(User Management)		
	•	Fixed a problem introduced on version 1.12.24.0 which was		
		making the CPU status on the treeview to become a red		
		triangle when using BCS Tools version lower than 3.40		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Improvement in the product packaging process, where the		
AH		connectors are now assembled instead of being delivered in	1 12 20 0	19/12/2023
Αп	_	a zip bag.	1.12.29.0	19/12/2023
	-	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40.		
AG		Improvement of the mecanic pieces of the product. Info: This version was built with CODESYS Control	1.12.29.0	06/11/2023
AU		Runtime Toolkit 3.5.17.40.	1.12.27.0	00/11/2023
	•	Support for BCS Tools 3.52.		
		New graphical design of System Web Page.		
	-	Included support on System Web Page to set the PLC clock		
		(time/date).		
	-	Removed the requirement of PLC in STOP to perform a		
A T7		firmware update (now it will stop automatically).	1 10 00 0	05/00/2022
AF	-	Included support to allow changing the Default Gateway of a	1.12.29.0	05/09/2023
		network interface through SysSockSetDefaultGateway.		
	•	Included support to identify the device through the "wink"		
		command on programming tool.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
-	-	Improvement on the MQTT to support multi-level topics		
AE		wildcard ('#').	1.12.24.3	04/08/2023
AL	-	Info: This version was built with CODESYS Control	1.12.24.3	U 1 1U012U23
		Runtime Toolkit 3.5.17.40.		
	-	Support for BCS Tools 3.51.		
AD	•	Included support to OpenVPN, Firewall and USB-Ethernet	1.12.24.0	21/06/2023
	Ì	Adapter.		

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	Improvements on System Web Page:		
	 Included configuration for OpenVPN, Firewall and USB- 		
	Ethernet Adapter.		
	 New Network tab, which now allows to change the IP 		
	configuration and also re-introduces the embedded network sniffer.		
	 Login unification (now it will be requested only in the 		
	Management tab). After the update, the credentials will be reset to default.		
	 Optimization in the time required to perform the firmware 		
	update process.		
	 Fixed USB modem problem where the controller could 		
	suffer a memory leak when the modem reconnect multiple		
	times.		
	 Fixed interoperability problem where the Ethernet/IP stop to 		
	communicate after inserting/configuring an USB modem.		
	 Fixed OPC UA interoperability with Kepware. 		
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.17.40.		
	 Hardware improvement to suport new PHY component 		
AC	(shortage issue)	1.12.5.5	25/01/2023
AC	 Info: This version was built with CODESYS Control 	1.12.3.3	23/01/2023
	Runtime Toolkit 3.5.17.40.		
	Fixed a problem where the Ethernet port could eventually		
	fail to communicate when connecting the controller directly		
	to a computer (point-to-point).		
AB	 Fixed CANopen Slave problem where the controller could 	1.12.5.5	16/01/2023
AD	not resume the communication after a failure in the CAN	1.12.3.3	10/01/2023
	bus.		
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.17.40.		
	Initial revision.	1.12.5.3	
AA	 Info: This version was built with CODESYS Control 		15/12/2022
	Runtime Toolkit 3.5.17.40.		

2.6 BCS-NX3003 - CPU 1 ETH, 1 SERIAL, 14 DI, 10 DO AND PSU 10W - BJ

REV	Description	Version	Date
ВВ	 Fixed an issue introduced on version 1.12.23.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
BA	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AZ	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process 	1.14.36.2	30/09/2024

	1	11011		I
		could fail unexpectedly or take longer than expected.		
	•	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.18.60.		
		Support for BCS Tools 3.61		
	•	Improvements on System Web Page Changed the timescape of the Clock Setting to metal the		
		• Changed the timezone of the Clock Setting to match the		
		user's computer. Fixed error that could make the firewall rules not to be		
		applied when the selected interfaces was "any"		
	_	Fixed a problem related to the Trend Graphic of the WebVisu where the controller could restart if the		
		Application use it		
		Improved firmware update time		
AY	_	Removed restriction of local network to perform a firmware	1.14.20.0	08/02/2024
711		update, now allowing to execute this operation remotely.	1.14.20.0	00/02/2024
		Limited the maximum number of OPC UA Server sessions		
		to 50		
		Fixed error that could generate an exception when		
		downloaded an Application with EtherCAT or PROFINET		
	-	Improvement in the backup of retentive data of the		
		Application		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Support for BCS Tools 3.52		
	•	New graphical design of System Web Page		
	•	Included support on System Web Page to set the PLC clock		
		(time/date)		
	•	Removed the requirement of PLC in STOP to perform a		
		firmware update (now it will stop automatically)		
AX	•	Included support to allow changing the Default Gateway of a	1.12.29.0	05/09/2023
		network interface through SysSockSetDefaultGateway		
	•	Included support to identify the device through the "wink"		
		command on programming tool.		
	•	Improvement on the MQTT to support multi-level topics		
	_	wildcard ('#').		
	•	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.17.40.		
		Support for BCS Tools 3.51.		
	_	Improvements on System Web Page: New Network tab, which now allows to change the IP		
	_	configuration and also re-introduces the embedded network		
		sniffer.		
		Login unification (now it will be requested only in the		
AW		Management tab). After the update, the credentials will be	1.12.23.0	22/06/2023
		reset to default.		
	-	Optimization in the time required to perform the firmware		
		update process.		
	-	Fixed OPC UA interoperability with Kepware.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	•	No modification in the product (production documentation		
AV		changed).	1.12.5.3	17/05/20203
AV	-	Info: This version was built with CODESYS Control	1.12.3.3	1 1103120203
		Runtime Toolkit 3.5.17.40.		
	•	Hardware improvement to suport new PHY component		
AU		(shortage issue)	1.12.5.3	05/04/2023
AU	-	Info: This version was built with CODESYS Control	1.12.3.3	03/04/2023
		Runtime Toolkit 3.5.17.40.		
AT	•	Fixed hardware problem where the power source does not	1.12.5.3	24/01/2023
ЛΙ		turn on when the bus is with full load.	1.14.3.3	27/01/2023

	-	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.17.40.		
		Support for BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed the retain system to keep the values after a reboot		
AS	•	caused by an internal software error. Fixed potential exception when an application is removed (reset origin). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40.	1.12.5.3	15/12/2022
		In this revision there were only internal changes in the		
AR	•	documentation. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.2.0	06/09/2022
	•	New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater.		
AQ	-	Added protection against CSRF (cross-site request forgery)	1.11.2.0	26/07/2021
	•	for management pages in web interface. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions.		
-	:	Improvements in "one touch diag" feature. Included support for PROFINET Controller.	1.9.29.0	26/07/2021
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Included support for "number of connected clients" diagnostic in status bar. To see this diagnostic, BCS Tools		
	•	version 3.31 or greater is required. Removed the hidden page "getlogs" from the system web page to improve cyber security. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side,		
AP		which was previously required under some circumstances to show the page correctly. Fixed a problem where the digital input value was not updated on the execution of external interrupt task.	1.9.25.0	13/01/2021
		Fixed a problem of delay in PTO softstop command when using LibMachineOEM.LABELING_MACHINE function block. Info: This version was built with CODESYS Control		
AO	•	Runtime Toolkit 3.5.15.0. Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tools 3.23 or greater).	1.9.8.0	09/11//2020
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. Included protectors for the product connectors.		
AN	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.8.11.0	24/09/2020
AM	•	Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for the latest version of LibSQLClient library. Included support for Ethernet/IP Adapter and Scanner. Included support for visualization of the integrated I/O by LCD (menu Hardware).	1.8.11.0	27/01/2020
	•	Included support for labeling function of the LibMachineOEM library (PTO).		

		 Improvements in the performance of integrated fast I/O. 		
		 Fixed EasyConnection behavior, where the application was 		
		not being erased after applying the new IP adress, resulting		
		on returning to the IP address set by the application.		
		 Fixed maximum number of ARTI/OPC DA connections 		
		from 4 to 8.		
		 General fixes on User Rights Management, which was not 		
		working properly on version 1.7.x.x.		
		 Info: This version was built with CODESYS Control 		
		Runtime Toolkit 3.5.15.0.		
	-	Improvements in the performance of integrated fast I/O.		
	-	Improvements in the performance of serial communication.		
	-	Improvements in CPU diagnostic messages.		
	-	Included watchdog reset diagnostic on the CPU display.		
AL	-	Changed bootloader from version 1.0.0.13 to 1.0.0.14 to fix an	1.7.36.0	11/06/2019
		issue where the CPU could activate (drive) the RS-485 bus		
		during the power-up.		
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.12.60.		
	-	Initial revision.		
AK	-	Info: This version was built with CODESYS Control Runtime	1.7.20.0	01/04/2019
		Toolkit 3.5.12.60.		

2.7 BCS-NX3004 - CPU 1 ETH, 1 SERIAL PORT - BJ

REV	Description	Version	Date
AZ	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AY	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.2	30/09/2024
AX	 Support for BCS Tools 3.61 Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. Limited the maximum number of OPC UA Server sessions to 50 Fixed error that could generate an exception when downloaded an Application with EtherCAT or PROFINET Improvement in the backup of retentive data of the Application Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.20.0	08/02/2024
AW	Support for BCS Tools 3.52	1.12.29.0	05/09/2023

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	• New analysis design of Contact W.1 Dec.		1
	 New graphical design of System Web Page Included support on System Web Page to set the PLC clock 		
	 Included support on System Web Page to set the PLC clock (time/date) 		
	Removed the requirement of PLC in STOP to perform a firmware		
	update (now it will stop automatically)		
	 Included support to allow changing the Default Gateway of a 		
	network interface through SysSockSetDefaultGateway		
	 Included support to identify the device through the "wink" 		
	command on programming tool.		
	 Improvement on the MQTT to support multi-level topics wildcard 		
	('#').		
	■ Support for BCS Tools 3.51.		
	 Support for BCS 100fs 3.51. Improvements on System Web Page: 		
	 New Network tab, which now allows to change the IP configuration 		
	and also re-introduces the embedded network sniffer.		
	 Login unification (now it will be requested only in the Management 		
AV	tab). After the update, the credentials will be reset to default.	1.12.23.0	22/06/2023
7 . v	 Optimization in the time required to perform the firmware update 	1.12.23.0	22/00/2023
	process.		
	 Fixed OPC UA interoperability with Kepware. 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	Fixed a problem introduced on the previous version that was		
	making the retain/persistent variables not to be saved at the power		
AU	down.	1.12.5.6	24/01/2023
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	 Support for BCS Tools 3.40. 		
	 Fixed possible issue where the Web Page turns unaccesible after 		
	using it for a very long time.		
	 Fixed the retain system to keep the values after a reboot caused by 		
AT	an internal software error.	1.12.5.3	15/12/2022
	 Fixed potential exception when an application is removed (reset 		
	origin).		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	• Change of the product label, which now includes a QR Code with		
	the path to the Technical Documentation of the product on the		
4.0	website. This change makes it unnecessary to follow the Installation		01/11/0000
AS	Guide with the product.	1.11.2.0	01/11/2022
	 UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	New format of firmware update file. This update requires the		
	controller running on firmware version 1.9.29.0 or greater.		
	Added protection against CSRF (cross-site request forgery) for		
	management pages in web interface.		
AR	 Updated UL Mark adding cUL (Canada). Due to the process of 	1.11.2.0	26/07/2021
	introduction on production line, this update may be present in some		
	units before this revision.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Changed firmware update mechanism to include support for the 		
	new file format that will be introduced on upcoming versions.		
	Improvements in "one touch diag" feature.	1.9.29.0	26/07/2021
_	 Included support for PROFINET Controller. 	1.7.27.0	20/07/2021
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Included support for "number of connected clients" diagnostic in 		
AQ	status bar. To see this diagnostic, BCS Tools version 3.31 or greater	1.9.25.0	13/01/2021
	is required.		

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Removed the hidden page "getlogs" from the system web page to improve cyber security. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly. Info: This version was built with CODESYS Control Runtime Tookit 3.5.15.0. Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tooks 3.23 or greater). Included support for the product connectors. Included protectors for the product connectors. Included support for MQTT Client Function Block (requires BCS Tooks 3.19 or greater). Included support for MQTT Client Function Block (requires BCS Tooks 3.19 or greater). Included support for the latest version of LibSQLClient library. Included support for Ethernet/IP Adapter and Scanner. Fixed an error that could occur when performing a specific sequence of modification of the size of Retain/Persistent %Q area. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. General fixes on User Rights Management, which was not working properly on version 1.7 x.a. Info: This version was built with CODESYS Control Runtime Tookit 3.5.15.0. Included support for OPC UA protocol Included support for MSQL_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Fixed the position of F symbol (force) on LCD Improvements on Easy Connection feature Improvements on Easy Connection feature Fixed a problem on function GetTime/Cone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Removed log message generated when the system time is updated by SNTP (to acuse peak on execution time. Removed log message generated when the system time is updated by SNTP (to acuse peak on execution time. Removed log message generated when the system time is updated by				
was previously required under some circumstances to show the page correctly. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. AP Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tools 3.23 or greater). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for the latest version of LibSQLClient library. Included support for Behavior, where the application was not being crased after applying the new IP adress, resulting on returning to the IP address set by the application. Fixed maximum number of ARTHOPC DA connections from 4 to 8. General fixes on User Rights Management, which was not working properly on version 1.7.x.x. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. Included support for OPC UA protocol Included support for PSSQL_Client Punction Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Fixed the position of F symbol (force) on LCD Improvements on Easy Connection feature. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause pack on execution time. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. Improvements on factory test system Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. In Included support for new Nexto Jet solution modules; Including support for new Nexto Jet solution modules; Including support for new Nexto Jet solution modules; Incl		improve cyber security. Fixed a problem related to the system webpage cache. This		
Toolkii 3.5.15.0. Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tools 3.23 or greater). Included protectors for the product connectors. Info: This version was built with CODESYS Control Runtime Toolkii 3.5.15.0. Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for Ethernet/IP Adapter and Scanner. Fixed an error that could occur when performing a specific sequence of modification of the size of Retain/Persistent %Q area. Fixed EasyConnection behavior, where the application was not being crased after applying the new IP adress, resulting on returning to the IP address set by the application. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. General fixes on User Rights Management, which was not working properly on version 1.7.x.x. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. Included support for MSSQI_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GeDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. AK Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. AK Info: This version was skipped due to integration of internal documentation Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. Added return of Easy Execution command execution status; Included support for NSO020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10.		was previously required under some circumstances to show the page correctly.		
## Block MQTT Client (the last one requires the BCS Tools 3.23 or greater). ## Included protectors for the product connectors. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater).				
Included protectors for the product connectors.	AP	Block MQTT Client (the last one requires the BCS Tools 3.23 or	1.9.8.0	09/11/2020
Tools 3.19 or greater). Included support for the latest version of LibSQLClient library. Included support for Ethernet/IP Adapter and Scanner. Fixed an error that could occur when performing a specific sequence of modification of the size of Retain/Persistent %Q area. Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. General fixes on User Rights Management, which was not working properly on version 1.7.x.x. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. Included support for OPC UA protocol Included support for MSSQL_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Fixed the position of F symbol (force) on LCD Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayofWeek functions, which could cause peak on execution time. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. Improvements on factory test system AL Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. AK This revision was skipped due to integration of internal documentation Included support for NX9020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. Added new configuration options for MODBUS Symbolic mode (Server and Slave): Added new configuration options for MODBUS Symbolic mode (Server and Slave): Improved Ethernet IP protocol; Improved	AO	 Included protectors for the product connectors. Info: This version was built with CODESYS Control Runtime 	1.8.11.0	24/09/2020
Included support for MSSQL_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Fixed the position of F symbol (force) on LCD Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. Improvements on factory test system Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. AK This revision was skipped due to integration of internal documentation Included support for NX9020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for nWLs. Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10.	AN	 Tools 3.19 or greater). Included support for the latest version of LibSQLClient library. Included support for Ethernet/IP Adapter and Scanner. Fixed an error that could occur when performing a specific sequence of modification of the size of Retain/Persistent %Q area. Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. General fixes on User Rights Management, which was not working properly on version 1.7.x.x. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.8.11.0	27/01/2020
AL Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. AK This revision was skipped due to integration of internal documentation Included support for NX9020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10.	AM	 Included support for MSSQL_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Fixed the position of F symbol (force) on LCD Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.17.0	11/03/2019
AK documentation Included support for NX9020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10.	AL	 Info: This version was built with CODESYS Control Runtime 	1.6.2.0	30/11/2018
AJ Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10.	AK	documentation	-	-
(Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10.	AJ	 Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime 	1.6.2.0	08/02/2018
	AI	 (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime 	1.6.1.0	02/10/2017
	AH		1.6.0.5	06/01/2017

Beijer Electronics AB

	•	Included support to easy connection.		
	•	Included support to dynamic IP.		
	•	Included support to mixed analog module NJ6005.		
	•	Homologation of alternative part numbers for components used on		
		this product.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.8.10.		
AG	•	Enhancements in performance of the modules hot-swap circuit.	1.5.1.2	09/11/2016
	•	New revision of the printed circuit board.		
AF	•	Changed the product label to comply with the new revision of CE	1.5.1.2	21/06/2016
		directive.		
AE	•	Homologation of alternative part numbers for components used on	1.5.1.2	25/05/2016
AE		this product.	1.3.1.2	23/03/2010
	•	Included the support for flexibility of retain/persistent memory		
		areas.		
AD	•	Included the support for Nexto Jet solution.	1.5.1.2	18/12/2015
	•	Improvements on the presentation of module Tag on diagnostic web		
		page.		
	•	Included the support for SNMP (agent) protocol supporting MIBII	·	
AC		and Private.	1.5.0.21	01/09/2015
	•	Improvements on the UCP power down process and on data	1.3.0.21	01/09/2013
		retentivity.		
AB	•	Improvements on the handling of data retentivity.	1.5.0.18	15/06/2015
AA	•	Initial revision.	1.5.0.16	06/0652015

2.8 BCS-NX3005 - CPU 1 ETH, 1 SERIAL PORT, WEB - BJ

REV	Description	Version	Date
AV	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AU	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on WebVisu introduced on version 1.14.20.0 which could cause a PLC reset when downloading the application Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.2	30/09/2024
AT	 Support for BCS Tools 3.61 Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Fixed a problem related to the Trend Graphic of the WebVisu where the controller could restart if the Application use it Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. 	1.14.20.0	08/02/2024

1	- I'' 1.1 ' 1 CODCIIA C		
	 Limited the maximum number of OPC UA Server sessions to 50 Fixed error that could generate an exception when downloaded an 		
	 Fixed error that could generate an exception when downloaded an Application with EtherCAT or PROFINET 		
	 Improvement in the backup of retentive data of the Application 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.18.60.		
	 Support for BCS Tools 3.52 		
	 New graphical design of System Web Page 		
	 Included support on System Web Page to set the PLC clock 		
	(time/date)Removed the requirement of PLC in STOP to perform a firmware		
	update (now it will stop automatically)		
AS	 Included support to allow changing the Default Gateway of a 	1.12.29.0	05/09/2023
AS	network interface through SysSockSetDefaultGateway	1.12.29.0	03/09/2023
	 Included support to identify the device through the "wink" 		
	command on programming tool.		
	 Improvement on the MQTT to support multi-level topics wildcard ('#'). 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	 Support for BCS Tools 3.51. 		
	Improvements on System Web Page:		
	New Network tab, which now allows to change the IP		
	configuration and also re-introduces the embedded network sniffer.		
	 Login unification (now it will be requested only in the 		
AR	Management tab). After the update, the credentials will be reset to	1.12.23.0	22/06/2023
	default.		
	 Optimization in the time required to perform the firmware update 		
	process.Fixed OPC UA interoperability with Kepware.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	Fixed a problem introduced on the previous version that was		
	making the retain/persistent variables not to be saved at the power		
AQ	down.	1.12.5.6	24/01/2023
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 		
	Support for BCS Tools 3.40.		
	 Fixed possible issue where the Web Page turns unaccesible after 		
	using it for a very long time.		
	• Fixed the retain system to keep the values after a reboot caused by		
AP	an internal software error.	1.12.5.3	15/12/2022
	 Fixed potential exception when an application is removed (reset origin). 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	• Change of the product label, which now includes a QR Code with		
	the path to the Technical Documentation of the product on the		
AO	website. This change makes it unnecessary to follow the Installation Guide with the product.	1.11.2.0	03/11/2022
AU	 UKCA Certification marking included on product. 	1.11.2.0	03/11/2022
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 New format of firmware update file. This update requires the 		
	controller running on firmware version 1.9.29.0 or greater.		
AN	 Added protection against CSRF (cross-site request forgery) for 	1.11.2.0	26/07/2021
	management pages in web interface.Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.15.0.		
-	 Changed firmware update mechanism to include support for the 	1.9.29.0	26/07/2021
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		new file format that will be introduced on upcoming versions.		
	•	Improvements in "one touch diag" feature.		
	-	Included support for PROFINET Controller.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Updated UL Mark adding cUL (Canada). Due to the process of		
		introduction on production line, this update may be present in		
AM		some units before this revision.	1.9.25.0	26/07/2021
	-	Info: This version was built with CODESYS Control Runtime		
	_	Toolkit 3.5.15.0.		
	•	Included support for "number of connected clients" diagnostic in status bar. To see this diagnostic, BCS Tools version 3.31 or		
		greater is required.		
	-	Removed the hidden page "getlogs" from the system web page to		
		improve cyber security.		
AL	-	Fixed a problem related to the system webpage cache. This	1.9.25.0	13/01/2021
		eliminates the need of clearing the cache on browser side, which		
		was previously required under some circumstances to show the page correctly.		
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Included support to TLS v1.2 and client certificate in the Function		
4 77		Block MQTT Client (the last one requires the BCS Tools 3.23 or	1000	00/11/2020
AK		greater). Info: This version was built with CODESYS Control Runtime	1.9.8.0	09/11/2020
	_	Toolkit 3.5.15.0.		
	-	Included protectors for the product connectors.		
AJ	-	Info: This version was built with CODESYS Control Runtime	1.8.11.0	24/09/2020
		Toolkit 3.5.15.0.		
	-	Included support for MQTT Client Function Block (requires BCS		
		Tools 3.19 or greater). Included support for the latest version of LibSQLClient library.		
	_	Fixed an error that could occur when performing a specific		
		sequence of modification of the size of Retain/Persistent %Q area.		
	-	Fixed EasyConnection behavior, where the application was not		
AI		being erased after applying the new IP adress, resulting on	1.8.11.0	27/01/2020
	_	returning to the IP address set by the application. Fixed maximum number of ARTI/OPC DA connections from 4 to		
	_	8.		
	-	General fixes on User Rights Management, which was not		
		working properly on version 1.7.x.x.		
	•	Info: This version was built with CODESYS Control Runtime		
	•	Toolkit 3.5.15.0. Included support for OPC UA protocol		
	-	Included support for MSSQL_Client Function Block for		
		accessing Microsoft databases.		
	•	Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4)		
	•	Fixed the position of F symbol (force) on LCD		
	•	Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an		
AH	_	exception leading the CPU to STOP.	1.7.17.0	11/03/2019
	•	Improvements on GetDateAndTime and GetDayOfWeek	. ,	
		functions, which could cause peak on execution time.		
	•	Removed log message generated when the system time is updated		
		by SNTP (to avoid log being flooded with this message) Improvements on SNMP protocol		
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.12.40.		
	•	Improvements on factory test system		
AG	•	Info: This version was built with CODESYS Control Runtime	1.6.2.0	30/11/2018
		Toolkit 3.5.8.10.		

	 Updated the product label for compliance of the UL certification, File Number E496087. 		
AF	 Included the licence IEC-104 in the BOM of the product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.2.0	03/09/2018
AE	 Included support for NX9020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.2.0	08/02/2018
AD	 Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.1.0	02/10/2017
AC	 Included support to IEC104 server. Included support to mixed analog module NJ6005. Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.0.13	06/01/2017
AB	 Enhancements in performance of the modules hot-swap circuit. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.0.9	09/11/2016
AA	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.0.9	08/09/2016

2.9 BCS-NX3008 - CPU 3 ETH, 1 USB, 1 SERIAL, 1 CAN, WEB - BJ

REV	Description	Version	Date
AT	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AS	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Included support for NX8000 (mandatory to check the conditions on User Manual before using it) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	30/09/2024
AR	 Included bootloader version 1.0.5.0, which fixes a power-on issue mentioned below. The bootloader is now included inside the firmware image file, and it will be updated automatically during the firmware update process. ATTENTION: this automatic update requires the controller to be running with version 1.14.34.2 or greater. So, if the firmware update is being performed on a controller that is running an older version, it will be necessary to perform the update procedure twice (to the same version) to have the bootloader updated. Fixed a problem where the CPU could potentially fail to start after a power-on. Fixed a problem where the firmware version could not be informed correctly (zero). Fixed a problem with NET Redundant mode which could cause an exception. 	1.14.34.2	25/07/2024

	Fixed a problem that could incorrectly produce error log messages		
	related to the internal processor temperature. Fixed a problem which would prevent the communication between		
	 Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. 		
	 Improved stability of CAN and RS-485 communication, specially 		
	when working simultaneously.		
	• Info: This version was built with CODESYS Control Runtime Toolkit		
	3.5.18.60.		
	 Fixed the CAN interface, which was not working properly on previous versions. 		
	Fixed a problem where the internal RS-485 termination was		
	always turned on, independently of the setting selected on CPU		
	configuration screen.		
	 Improvements on System Web Page to enhance the reliability and 		
	usability. Fixed a problem on firmware update where the process could fail		
	unexpectedly or take longer than expected.		
AQ	• Fixed a problem on Docker where the CPU could take too long to	1.14.28.0	02/05/2024
AQ	change from STOP to RUN after a startup.	1.17.20.0	02/03/2024
	 Fixed the DG LED behaviour when CPU has no application. Fixed NET3 by Operating State diagnostic when configured as a 		
	 Fixed NET3 byOperatingState diagnostic when configured as a redundant pair of NET2 (NIC Teaming). 		
	Fixed a problem where the OTD button could present a slow		
	response.		
	• Fixed a problem on OpenVPN where it could incorrectly show a		
	valid certificate as invalid. Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.18.60.		
	 Support for BCS Tools 3.61 		
	 Included support for Docker feature 		
	 Included support for FTP Improvements on System Web Page 		
	 Improvements on System Web Page Changed the timezone of the Clock Setting to match the 		
	user's computer.		
	 Fixed error that could make the firewall rules not to be 		
	applied when the selected interfaces was "any"		
	 Fixed a problem related to the Trend Graphic of the WebVisu where the controller could restart if the Application use it 		
	 Improved firmware update time 		
	 Removed restriction of local network to perform a firmware 		
	update, now allowing to execute this operation remotely.		
AP	• Fixed a problem on RS-485 termination where the setting on CPU configuration was behaving with a inverted logic	1.14.20.0	08/02/2024
	 Fixed the red triangle on NET3 connector in the BCS Tools 		
	treeview with the controller in NIC Teaming mode		
	Limited the maximum number of OPC UA Server sessions to 50		
	Fixed error that could generate an exception when downloaded an Application with EtherCAT or PROFINET.		
	Application with EtherCAT or PROFINET Fixed a problem where the CPU could potentially fail to restore		
	retain data if turned off on a very specific and short time window		
	during the initialization process		
	• Fixed an issue that could make the current Application of the		
	device not to be erased when transfering a new Application through the USB		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.18.60.		
	Support for BCS Tools 3.52		
AN	 New graphical design of System Web Page Included support on System Web Page to set the PLC clock 	1.12.29.0	05/09/2023
AIN	 Included support on System Web Page to set the PLC clock (time/date) 	1.12.29.0	03/09/2023
	 Removed the requirement of PLC in STOP to perform a firmware 		
		·	

	update (now it will stop automatically)		
	 Included support to allow changing the Default Gateway of a 		
	network interface through SysSockSetDefaultGateway		
	Included support to identify the device through the "wink"		
	command on programming tool.		
	 Improvement on the MQTT to support multi-level topics wildcard 		
	('#').		
	 Included support for IEC 104 Server protocol (requires BCS Tools 3.52 or greater). 		
	 Included support to SNMP 		
	• Fixed a problem that could potentially make the CPU fail to start		
	after a power-on		
	 Limited the speed of NET2 and NET3 to 10/100Mbps 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	 Improved capacity of the integrated power supply to withstand 		
	modules in-rush current on the power-on of a full bus		
	configuration.		
AM	 Changed the product label due to certification cUL File Number 	1.12.24.0	21/07/2023
	E496087, where the cUL logo was included.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	Support for BCS Tools 3.51.		
	■ Improvements on System Web Page:		
	 Included configuration for OpenVPN, Firewall and USB-Ethernet 		
	Adapter.		
	 New Network tab, which now allows to change the IP 		
	configuration and also re-introduces the embedded network		
	sniffer.		
	 Login unification (now it will be requested only in the 		
	Management tab). After the update, the credentials will be reset to		
	default.		
	 Optimization in the time required to perform the firmware update 		
AL	process.	1.12.24.0	21/06/2023
	Fixed USB modem problem where the controller could suffer a		
	memory leak when the modem reconnect multiple times.		
	Fixed interoperability problem where the Ethernet/IP stop to		
	communicate after inserting/configuring an USB modem.		
	Fixed OPC UA interoperability with Kepware.		
	 Improvements in OpenVPN and Firewall. 		
	 Support to the RTL8188EU WiFi adapter. 		
	General improvements in the system stability.		
	Info: This version was built with CODESYS Control Runtime Toolkit		
	3.5.17.40.		
	• Fixed an issue where the CPU would eventually not enter in RUN		
	after a power-on.		
	 Improved the System Web Page to support only one login to the 		
	Management tab instead of each feature with separate credentials.		
	Also, a new System tab is available, containing the firmware		
	update and buttons to access the system logs.		
	Fixed OpenVPN problem that could cause a memory leak when		
	using it as the Gateway for the programming tool.		
AK	Fixed RTC drift at high operation temperatures.	1.12.15.0	10/03/2023
	■ Improved immunity against external electromagnetic		
	interferences.		
	Fixed CAN diagnostics and RTR messages (when DLC is zero)		
	reception.		
	 Updated OPC UA Server operational limits to provide better 		
	interoperability with Clients.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		

-	 Included support for CODESYS MODBUS Master Serial and TCP. Fixed problem where the CPU would evetually not start after a power-on. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.53.0	12/01/2023
AJ	 Minor hardware improvements to fix an internal industrial problem. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	17/01/2023
AI	 Changed the product label to include CE and UK CA certifications. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	05/12/2022
АН	 Minor hardware changes in order to improve the product. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	01/12/2022
AA-AG	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	21/10/2022

2.10 BCS-NX3010 - CPU 1 ETH, 2 SERIAL - BJ

REV	Description	Version	Date
BS	 Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.14.0	03/04/2025
BR	 Support for BCS Tools 3.70. Fixed a problem introduced on firmware 1.10.8.0 where the User Rights credentials could be corrupted, making it impossible to login into the controller again. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.12.0	30/11/2024
BQ	 Support for BCS Tools 3.61 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.7.0	08/02/2024
ВР	 Fixed a problem related to NX4010 diagnostics on the System Web Page that could cause an internal exception, leading the CPU to stop. Fixed a problem related to Ethernet communication that could cause an internal exception on some specific conditions, leading the CPU to stop. Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.12.0	21/11/2023
ВО	 Support for BCS Tools 3.40. Fixed wrong "Factory Missing" log message. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.8.0	15/12/2022
BN	 Fixed the retain system to keep the values after a reboot caused by an internal software error. Fixed potential exception when an application is removed (reset origin). Change of the product label, which now includes a QR Code with 	1.9.4.0	19/10/2022

		the path to the Technical Documentation of the product on the		
		website. This change makes it unnecessary to follow the Installation		
	_	Guide with the product.		
	•	UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime		
	•	Toolkit 3.5.15.0.		
		New format of firmware update file. This update requires the		
	_	controller running on firmware version 1.8.13.0 or greater.		
		Added protection against CSRF (cross-site request forgery) for		
BM		management pages in web interface.	1.9.1.0	26/07/2021
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	-	Changed firmware update mechanism to include support for the		
		new file format that will be introduced on upcoming versions.		
	•	Included fixed DNS server settings (8.8.8.8 and 8.8.4.4).	1.8.13.0	26/07/2021
	•	Improved NIC Teaming performance.	1.0.13.0	20/07/2021
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Updated UL Mark adding cUL (Canada). Due to the process of		
DI		introduction on production line, this update may be present in some	1.8.10.0	26/07/2021
BL	_	units before this revision. Info: This version was built with CODESYS Control Runtime	1.6.10.0	26/07/2021
	•	Toolkit 3.5.15.0.		
		Included support for PROFINET Controller.		
BK		Info: This version was built with CODESYS Control Runtime	1.8.10.0	21/05/2021
		Toolkit 3.5.15.0.		,
	•	Included support for "number of connected clients" diagnostic in		
		status bar. To see this diagnostic, BCS Tools version 3.31 or greater		
		is required.		
BJ	•	Removed the hidden page "getlogs" from the system web page to	1.8.9.0	13/01/2021
		improve cyber security.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Fixed a problem that was not allowing the CPU to go to RUN when the application name was different from the default "Application".		
		Fixed a problem related to the system webpage cache. This		
		eliminates the need of clearing the cache on browser side, which		
BI		was previously required under some circumstances to show the	1.8.8.0	24/09/2020
		page correctly.		
	•	Included protectors for the product connectors.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Included support to client certificate in the Function Block MQTT		
		Client (requires the BCS Tools 3.23 or greater).		
-	•	Fixed a problem that was not allowing to perform a firmware	1.8.6.0	05/06/2020
		update when the CPU had an application loaded. Info: This version was built with CODESYS Control Runtime		
	-	Toolkit 3.5.15.0.		
	•	Included support for MQTT Client Function Block (requires BCS		
		Tools 3.19 or greater).		
		Included support for the latest version of LibSQLClient library.		
ВН	•	General fixes on User Rights Management, which was not working	1.8.3.0	27/01/2020
ΔП		properly on version 1.7.x.x.	1.0.3.0	21/01/2020
	•	Updated the RJ45 connector of the Ethernet interfaces.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Fixed the copy from memory card to CPU.		
DE DC	•	Fixed EasyConnection behavior, where the application was not being around after applying the pay ID advers, resulting an	17014	02/10/2010
BF-BG		being erased after applying the new IP address, resulting on returning to the IP address set by the application.	1.7.0.14	03/10/2019
		Included support for EtherNet/IP Scanner and Adapter		
	_	meraded support for Emerited it Scanner and Adapter		

	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 		
BE	 Improvement on Ethernet interface to avoid uncontrolled retransmission of ACK message on IP conflict scenarios, which could impact on CPU execution cycle. Fixed the LCD menu for copying application on Memory Card, which was missing since version 1.6.0.11. Fixed log message "Retain restore from file failed" that was incorrectly generated on power on. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.0.11	09/07/2019
BD	 Included support for OPC UA protocol Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Fixed treatment of I/O modules on breakpoint condition on projects using machine profile. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.0.8	11/03/2019
ВС	 Small text correction on Installation Guide Updated the product label for compliance of the UL certification, File Number E496087. 	1.6.1.3	15/01/2019
AS-BB	 These revisions were skipped due to integration of internal documentation Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	-	-
AR	 Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.1.3	02/10/2017
AQ	 Included support to IEC104 server. Included support to clock settings. Included support to easy connection. Included support to dynamic IP. Included support to mixed analog module NJ6005. Included support for MSSQL_Client Function Block for accessing Microsoft databases. Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.0.11	06/01/2017
AP	 Enhancement of factory test software. Components that belonged to a non-used circuit were removed to reduce the product's structure. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.1.7	10/10/2016
AO	 Changed the product label to comply with the new revision of CE directive. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.1.7	08/06/2016
AN	 Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime 	1.5.1.7	01/06/2016

Info: This version was built with CODESYS Control Runtime

Improvement of CPU boot time.

Included the support for NX6010 module.

	Toolkit 3.4.4.20.		
AF	 Fixed diagnostic with quantities of system restart. Improvement of initialization time. Modified task priorities after RTS reset to keep the same behavior. Improvement in bus scan time. Improvemente and fixes in memory alocation. Fixed the treatment of tasks that access the I/O simultaneously. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.4.0	30/09/2013
AE	 Enhancement and fix in bus interruption treatment. Enhancement in the communication bus. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.2.3	28/06/2013
AD	 Changed the bill of materials to add the earthing spring holder. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	12/04/2013
AC	 RoHS compliant revision. Enhancement in bus interruption treatment. Modified internal identification code in the firmware. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	22/01/2013
AB	 Inclusion of module firmware version on web pages Increased compatibility with some memory card models. Fix in web presentation of architecture when used rack expansion. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.0.9	30/10/2012
AA	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.0.7	23/08/2012

2.11 BCS-NX3020 - CPU 2 ETH, 2 SERIAL, RACK EXP. - BJ

REV	Description	Version	Date
BP	 Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.14.0	03/04/2025
во	 Support for BCS Tools 3.70. Fixed a problem introduced on firmware 1.10.8.0 where the User Rights credentials could be corrupted, making it impossible to login into the controller again. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.12.0	30/11/2024
BN	 Support for BCS Tools 3.61 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.7.0	08/02/2024
ВМ	 Fixed a problem related to NX4010 diagnostics on the System Web Page that could cause an internal exception, leading the CPU to stop. Fixed a problem related to Ethernet communication that could cause an internal exception on some specific conditions, leading the CPU to stop. Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.12.0	21/11/2023
BL	 Support for BCS Tools 3.40. Fixed wrong "Factory Missing" log message Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.8.0	15/12/2022
BK	• Fixed the retain system to keep the values after a reboot caused by	1.9.4.0	01/11/2022

	1 6		l .
	an internal software error. Fixed potential exception when an application is removed (reset		
	 Fixed potential exception when an application is removed (reset origin). 		
	Fixed an exception that occurs when using DBP with its individual		
	elements ON/OFF mapped to MODBUS.		
	 Change of the product label, which now includes a QR Code with 		
	the path to the Technical Documentation of the product on the		
	website. This change makes it unnecessary to follow the Installation		
	Guide with the product.		
	 UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 In this revision there were only internal changes in the 		
BJ	documentation.Info: This version was built with CODESYS Control Runtime	1.9.1.0	05/04/2022
	Toolkit 3.5.15.0.		
	New format of firmware update file. This update requires the		
	controller running on firmware version 1.8.13.0 or greater.		
	Added protection against CSRF (cross-site request forgery) for		
	management pages in web interface.		
BI	 Updated UL Mark adding cUL (Canada). Due to the process of 	1.9.1.0	26/07/2021
	introduction on production line, this update may be present in some		
	units before this revision.		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 		
	 Changed firmware update mechanism to include support for the 		
	new file format that will be introduced on upcoming versions.		
_	Included fixed DNS server settings (8.8.8.8 and 8.8.4.4).	1.8.13.0	26/07/2021
	 Improved NIC Teaming performance. Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Included support for PROFINET Controller. 		
BH	 Info: This version was built with CODESYS Control Runtime 	1.8.10.0	21/05/2021
	Toolkit 3.5.15.0.		
	 Included support for "number of connected clients" diagnostic in 		
	status bar. To see this diagnostic, BCS Tools version 3.31 or greater		
BG	is required.Removed the hidden page "getlogs" from the system web page to	1.8.9.0	13/01/2021
D _Q	improve cyber security.	1.6.9.0	13/01/2021
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Fixed a problem that was not allowing the CPU to go to RUN when 		
	the application name was different from the default "Application".		
	Fixed a problem related to the system webpage cache. This		
DE	eliminates the need of clearing the cache on browser side, which	1000	24/00/2020
BF	was previously required under some circumstances to show the page correctly.	1.8.8.0	24/09/2020
	 Included protectors for the product connectors. 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Updated the RJ45 connector of the Ethernet interfaces. 		
BE	 Info: This version was built with CODESYS Control Runtime 	1.8.6.0	29/04/2020
	Toolkit 3.5.15.0.		
	Included support to client certificate in the Function Block MQTT		
	Client (requires the BCS Tools 3.23 or greater). Fixed a problem that was not allowing to perform a firmware.		
-	 Fixed a problem that was not allowing to perform a firmware update when the CPU had an application loaded. 	1.8.6.0	05/06/2020
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
DD	 Included support for MQTT Client Function Block (requires BCS 	1020	27/01/2020
BD	Tools 3.19 or greater).	1.8.3.0	27/01/2020

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	•	Included support for the latest version of LibSQLClient library.		
	•	General fixes on User Rights Management, which was not working		
	_	properly on version 1.7.x.x.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0. Fixed the copy from memory card to CPU.		
		Fixed EasyConnection behavior, where the application was not		
		being erased after applying the new IP adress, resulting on		
BB-BC		returning to the IP address set by the application.	1.7.0.14	03/10/2019
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.12.60.		
		Improvement on Ethernet interface to avoid uncontrolled		
		retransmission of ACK message on IP conflict scenarios, which		
		could impact on CPU execution cycle.		
	•	Fixed the LCD menu for copying application on Memory Card,		
BA		which was missing since version 1.6.0.11.	1.7.0.11	09/07/2019
	•	Fixed log message "Retain restore from file failed" that was		
	_	incorrectly generated on power on.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60.		
	•	Included support for OPC UA protocol		
	•	Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4)		
		Improvements on Easy Connection feature		
	•	Fixed a problem on function GetTimeZone, which could cause an		
		exception leading the CPU to STOP.		
ΑZ	•	Improvements on GetDateAndTime and GetDayOfWeek functions,	1.7.0.8	11/03/2019
		which could cause peak on execution time.		
	•	Fixed treatment of I/O modules on breakpoint condition on projects		
		using machine profile.		
	•	Removed log message generated when the system time is updated		
		by SNTP (to avoid log being flooded with this message) Small text correction on Installation Guide		
		Updated the product label for compliance of the UL certification,		
AY	_	File Number E496087.	1.6.1.3	15/01/2019
711		Info: This version was built with CODESYS Control Runtime	1.0.1.5	13/01/2019
		Toolkit 3.5.7.40.		
AC AV	•	These revisions were skipped due to integration of internal		
AS-AX		documentation	-	-
	-	Included the licence IEC-104 in the BOM of the product.		
AR	•	Info: This version was built with CODESYS Control Runtime	1.6.1.3	03/09/2018
		Toolkit 3.5.7.40.		
	•	Added new configuration options for MODBUS Symbolic mode		
	_	(Server and Slave);		
AQ		Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules;	1.6.1.3	02/10/2017
AQ	:	Improved Ethernet IP protocol;	1.0.1.3	02/10/2017
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
	•	Included support to IEC104 server.		
	•	Included support to clock settings.		
	•	Included support to easy connection.		
	•	Included support to dynamic IP.		
	•	Included support to mixed analog module NJ6005.	1.60::	06/04/2015
AP	•	Included support for MSSQL_Client Function Block for accessing	1.6.0.11	06/01/2017
	_	Microsoft databases.		
	•	Homologation of alternative part numbers for components used on this product		
		this product. Info: This version was built with CODESYS Control Runtime		
	-	Toolkit 3.5.7.40.		
	•	Enhancement of factory test software.		
AO		Components that belonged to a non-used circuit were removed to	1.5.1.7	10/10/2016

	reduce the product's structure.		
	• Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.7.40.		
	 Changed the product label to comply with the new revision of CE 		
AN	directive. Info: This version was built with CODESYS Control Runtime	1.5.1.7	08/06/2016
	Toolkit 3.5.7.40.		
	 Homologation of alternative part numbers for components used on 		
AM	this product.	1.5.1.7	01/06/2016
Alvi	 Info: This version was built with CODESYS Control Runtime 	1.3.1.7	01/00/2010
	Toolkit 3.5.7.40.		
	 Included SNTP diagnostics in MIB Private. 		
	 Fixed possible exception when using projects with Basic profile. Included support for the additional option introduced on BCS Tools 		
	2.05 that allows using Retain and Persistent variables on Function		
AL	Blocks.	1.5.1.7	26/02/2016
	 Enhancements on EtherCAT protocol when used on situations with 		
	heavy traffic on other Ethernet ports.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.7.40.		
	 Included support for I/O modules of the Nexto Jet solution. Included support for size flexibility of Retentive and Persistent 		
	memory areas.		
A 17	 Fixed possible loss of system logs after a power failure. 	1512	11/11/2015
AK	 Changed web message in case firmware update failure when there 	1.5.1.3	11/11/2015
	are too many applications running.		
	■ Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.7.40. • Fixed a possible exception after performing hot-swap of modules		
	on the local bus.		
	 Fixed a problem which causes exception after na online change in 		
AJ	Symbol Configuration.	1.5.0.15	04/08/2015
ΛJ	• Fixed a problem where the Retain and Persistent are intialized after	1.5.0.15	04/08/2013
	an exception.		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 		
	 Included the vital failure feature for NETs on projects with half- 		
	cluster redundancy.		
	 Included the support for EtherCAT Master. 		
	■ Included the support for new 8-position rack NX9000 on	4.50.40	25/05/2015
AI	diagnostics of web page. Changed the maximum number of communication channels	1.5.0.10	25/05/2015
	 Changed the maximum number of communication channels simultaneouly connected to CPU from 4 to 8. 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.7.40.		
	 Included the support for OPC protocol. 		
	 Included the support for Application CRC feature. 		
	 Included two new hot swap modes: Hot Swap Disabled and Hot 		
	Swap Enabled with startup consistency. Included the support for SNMP (agent) protocol supporting MIBII		
	and Private.		
AH	 Included new system logs with userful information to help 	1.4.0.33	24/09/2014
	diagnosis and troubleshooting.		
	• System log is now retain (i.e, the log remains on memory even after		
	restarting the CPU).		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 		
	Fixed the synchronism of forced BIT variables on redundant		
. ~	systems.	1000	20/07/531
AG	 Included the support for NX6020 module. 	1.3.0.31	30/07/2014
	 Info: This version was built with CODESYS Control Runtime 		

	Toolkit 3.4.4.20.		
AF	 Included the support for MODBUS Symbol drivers (Client/Server and Master/Slave RTU). Included the support for the library that provides User Log on Memory Card. Fixed the diagnostic indication in case of failure of the OTD key. Improvements on the Memory Card access. Improvement of CPU boot time. Included the support for NX6010 module. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.3.0.22	09/01/2014
AE	 Fixed diagnostic with quantities of system restart. Improvement of initialization time. Modified task priorities after RTS reset to keep the same behavior. Improvement in bus scan time. Improvemente and fixes in memory alocation. Fixed the treatment of tasks that access the I/O simultaneously. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.4.0	30/09/2013
AD	 Enhancement and fix in bus interruption treatment. Enhancement in the communication bus. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.2.3	28/06/2013
AC	 Changed the bill of materials to add the earthing spring holder. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	12/04/2013
AB	 RoHS compliant revision. Enhancement in bus interruption treatment. Modified internal identification code in the firmware. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	22/01/2013
AA	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.0.9	23/08/2012

2.12 BCS-NX3030 - CPU 2 ETH, 2 SERIAL,RACK EXP,RED-BJ

REV	Description	Version	Date
BR	 Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.14.0	03/04/2025
BQ	 Support for BCS Tools 3.70. Fixed a problem introduced on firmware 1.10.8.0 where the User Rights credentials could be corrupted, making it impossible to login into the controller again. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.12.0	30/11/2024
BP	 Support for BCS Tools 3.61 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.7.0	08/02/2024
во	 Fixed a problem related to NX4010 diagnostics on the System Web Page that could cause an internal exception, leading the CPU to stop. Fixed a problem related to Ethernet communication that could cause an internal exception on some specific conditions, leading the CPU to stop. Fixed OPC UA interoperability with Kepware. Fixed project synchronization when using a custom application 	1.10.12.0	17/11/2023

		name.		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.17.40.		
		Support for BCS Tools 3.40.		
BN	-	Fixed wrong "Factory Missing" log message	1.10.8.0	15/12/2022
DI	-	Info: This version was built with CODESYS Control Runtime	1.10.0.0	13/12/2022
	_	Toolkit 3.5.17.40.		
	•	Fixed the redundancy project synchronization system when downloading an application in a Stand-By CPU with the other still		
		in Active (an invalid operation).		
	-	Fixed the retain system to keep the values after a reboot caused by		
		an internal software error.		
	-	Fixed potential exception when an application is removed (reset		
		origin).		
BM	•	Fixed an exception that occurs when using DBP with its individual	1.9.4.0	01/11/2022
		elements ON/OFF mapped to MODBUS. Change of the product label, which now includes a QR Code with		
	_	the path to the Technical Documentation of the product on the		
		website. This change makes it unnecessary to follow the Installation		
		Guide with the product.		
	•	UKCA Certification marking included on product.		
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	New format of firmware update file. This update requires the controller running on firmware version 1.8.13.0 or greater.		
	-	Added protection against CSRF (cross-site request forgery) for		
		management pages in web interface.		
BL	•	Updated UL Mark adding cUL (Canada). Due to the process of	1.9.1.0	26/07/2021
		introduction on production line, this update may be present in some		
		units before this revision.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
		Changed firmware update mechanism to include support for the		
		new file format that will be introduced on upcoming versions.		
	-	Included fixed DNS server settings (8.8.8.8 and 8.8.4.4).	1 0 12 0	26/07/2021
-	-	Improved NIC Teaming performance.	1.8.13.0	26/07/2021
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Fixed the NX4010 redundancy diagnostics presentation on the Web interface.		
BK		Included support for PROFINET Controller.	1.8.10.0	21/05/2021
DIX		Info: This version was built with CODESYS Control Runtime	1.0.10.0	21/03/2021
		Toolkit 3.5.15.0.		
		Included support for "number of connected clients" diagnostic in		
		status bar. To see this diagnostic, BCS Tools version 3.31 or greater		
ВЈ		is required.	1.8.9.0	13/01/2021
БJ	-	Removed the hidden page "getlogs" from the system web page to improve cyber security.	1.0.9.0	13/01/2021
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Fixed the force diagnostic bForcedIOs, which was not being		
		informed correctly on the stand-by PLC.		
	•	Fixed a problem that was not allowing the CPU to go to RUN when		
		the application name was different from the default "Application". Fixed a problem related to the system webpage cache. This		
BI	•	eliminates the need of clearing the cache on browser side, which	1.8.8.0	24/09/2020
D1		was previously required under some circumstances to show the	1.0.0.0	2 11 371 2020
		page correctly.		
	•	Included protectors for the product connectors.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		

	 Undated the RI45 connector of the Ethernet interfaces 		
ВН	 Updated the RJ45 connector of the Ethernet interfaces. Info: This version was built with CODESYS Control Runtime 	1.8.6.0	29/04/2020
	Toolkit 3.5.15.0.		
	 Included support to client certificate in the Function Block MQTT 		
	Client (requires the BCS Tools 3.23 or greater).		
	 Fixed a problem that was not allowing to perform a firmware update when the CPU had an application loaded. 		
_	 Fixed a problem introduced on the previous version which reduced 	1.8.6.0	05/06/2020
_	the capability of the redundant system on tolerating an internal	1.0.0.0	03/00/2020
	software failure in one of the CPUs.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Included support for MQTT Client Function Block (requires BCS 		
	Tools 3.19 or greater). Included support for the latest version of LibSQLClient library.		
BG	 General fixes on User Rights Management, which was not working 	1.8.3.0	27/01/2020
	properly on version 1.7.x.x.	-101010	
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	Fixed the copy from memory card to CPU.		
	 Fixed EasyConnection behavior, where the application was not being erased after applying the new IP address, resulting on 		
BE-BF	returning to the IP address set by the application.	1.7.0.14	03/10/2019
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.12.60.		
	 Improvement on Ethernet interface to avoid uncontrolled 		
	retransmission of ACK message on IP conflict scenarios, which		
	could impact on CPU execution cycle. Fixed the LCD menu for copying application on Memory Card,		
	which was missing since version 1.6.0.11.		
22	Fixed log message "Retain restore from file failed" that was	4.50.44	00/05/00/0
BD	incorrectly generated on power on.	1.7.0.11	09/07/2019
	 Included support to the fix introduced on BCS Tools v3.14 for the 		
	error which could cause exception after a switchover of redundant		
	PLC. Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.12.60.		
	 Included support for OPC UA protocol 		
	 Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) 		
	 Improvements on Easy Connection feature 		
	• Fixed a problem on function GetTimeZone, which could cause an		
	exception leading the CPU to STOP. Improvements on Cot Date And Time and Cot Day Of Week functions		
	 Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. 		
BC	 Improvements on project synchonization between redundant PLCs 	1.7.0.8	11/03/2019
	• Fixed treatment of I/O modules on breakpoint condition on projects		
	using machine profile.		
	Removed log message generated when the system time is updated		
	by SNTP (to avoid log being flooded with this message)		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 		
	Small text correction on Installation Guide		
ВВ	 Updated the product label for compliance of the UL certification, 		
	File Number E496087.	1.6.1.3	15/01/2019
	■ Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.7.40.		
AR-BA	 These revisions were skipped due to integration of internal documentation 	-	-
	 documentation Included the licence IEC-104 in the BOM of the product. 		
AQ	 Info: This version was built with CODESYS Control Runtime 	1.6.1.3	03/09/2018
`	Toolkit 3.5.7.40.		

Beijer Electronics AB

AP	 Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved synchronization of redundant projects; Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.1.3	02/10/2017
AO	 Included support to IEC104 server. Included support to clock settings. Included support to easy connection. Included support to dynamic IP. Included support to mixed analog module NJ6005. Included support for MSSQL_Client Function Block for accessing Microsoft databases. Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.0.11	06/01/2017
AN	 Enhancement of factory test software. Components that belonged to a non-used circuit were removed to reduce the product's structure. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	10/10/2016
AM	 Changed the product label to comply with the new revision of CE directive. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	08/06/2016
AL	 Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	01/06/2016
AK	 Included SNTP diagnostics in MIB Private. Fixed possible exception when using projects with Basic profile. Included support for the additional option introduced on BCS Tools 2.05 that allows using Retain and Persistent variables on Function Blocks. Enhancements on EtherCAT protocol when used on situations with heavy traffic on other Ethernet ports. Enhancements on handling of redundant variables forcing. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	26/02/2016
AJ	 Included support for I/O modules of the Nexto Jet solution. Included support for size flexibility of Retentive and Persistent memory areas. Fixed possible loss of system logs after a power failure. Changed web message in case firmware update failure when there are too many applications running. Incremented the maximum number of redundant areas from 100 to 1024. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.3	11/11/2015
AI	 Fixed a possible exception after performing hot-swap of modules on the local bus. Fixed forcing of variables on redundant system. Fixed a problem which causes exception after na online change in Symbol Configuration. Fixed a problem where the Retain and Persistent are intialized after an exception. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.0.15	04/08/2015

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АН	 Included the vital failure feature for NETs on projects with half-cluster redundancy. Included the support for EtherCAT. Included the support for new 8-position rack NX9000 on diagnostics of web page. Included the support for. Changed the maximum number of communication channels simultaneouly connected to CPU from 4 to 8. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.0.10	25/05/2015
AG	 Included the support for OPC protocol. Included the support for Application CRC feature. Included two new hot swap modes: Hot Swap Disabled and Hot Swap Enabled with startup consistency. Included the support for SNMP (agent) protocol supporting MIBII and Private. Included new system logs with userful information to help diagnosis and troubleshooting. System log is now retain (i.e, the log remains on memory even after restarting the CPU). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.4.0.33	29/09/2014
AF	 Fixed the synchronism of forced BIT variables on redundant systems. Included the support for NX6020 module. 	1.3.0.31	30/07/2014
AE	 Included the support for MODBUS Symbol drivers (Client/Server and Master/Slave RTU). Included the support for the library that provides User Log on Memory Card. Fixed the diagnostic indication in case of failure of the OTD key. Improvements on the Memory Card access. Improvement of CPU boot time. Included the support for NX6010 module. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.3.0.22	09/01/2014
AD	 Fixed diagnostic with quantities of system restart. Improvement of initialization time. Modified task priorities after RTS reset to keep the same behavior. Improvement in bus scan time. Improvemente and fixes in memory alocation. Fixed the treatment of tasks that access the I/O simultaneously. Fixed project synchronization after a restart of standby PLC. Fixed the timout to synchronize the project. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.4.0	30/09/2013
AC	 Enhancement and fix in bus interruption treatment. Enhancement in the communication bus. Fix in the redundant project synchronism. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.2.3	28/06/2013
AB	 Changed the bill of materials to add the earthing spring holder. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	12/04/2013
AA	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	22/01/2013

2.13 BCS-NX8000 - 30W 24VDC PSU - BJ

REV	Description	Version	Date
AQ	 Minor hardware changes in order to improve the product. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	N/A	01/12/2022
AP	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		26/07/2021
AO	 Updated the product label for compliance of the UL certification, File Number E496087. 	NA	04/06/2020
AK-AN	 These revisions were skipped due to integration of internal documentation 	_	-
AJ	This new product revision is related to the change in the overlay material.	NA	12/09/2018
AI	 Homologation of alternative part numbers for components used on this product. 	NA	19/12/2016
AH	 Changed the product label to comply with the new revision of CE directive. 	NA	22/09/2016
AG	 Enhancement on test system for test of NX3004. 	NA	30/12/2015
AF	 Enhancement on test system to improve detection of module interference on WSDE line (rack number). 	NA	17/06/2014
AE	 Changed the maintenance procedure. 	NA	20/05/2014
AD	 Changed the bill of materials to add the earthing sping holder. 	NA	12/04/2013
AC	 RoHS compliant revision. 	NA	22/01/2013
AB	 Label printed using a new printer. 	NA	30/10/2012
AA	 Initial revision. 	NA	31/08/2012

Date(dd/mm/yyyy): 10/06/2025

2.14 BCS-NX1005 - 24 VDC 8 DOT/8 DI MIXED MODULE - BJ

REV	Description	Version	Date
AL	• Minor improvement in the external mechanics of the product, without significant impact.	1.2.0.7	22/03/2022
AK	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.2.0.7	26/07/2021
AJ	Updated the product label for compliance of the UL certification, File Number E496087.	1.2.0.7	24/06/2020
AI	Changes in the source code shared with other products that doesn't affect the behaviour of this product.	1.2.0.7	15/08/2017
АН	 Enhancement in factory process. Changed the product label to comply with the new revision of CE directive. 	1.2.0.4	31/08/2016
AG	 Homologation of alternative part numbers for components used on this product. 	1.2.0.4	14/06/2016
AF	 Impovements in the Factory Test system. 	1.2.0.4	28/10/2015
AE	 Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. 	1.2.0.4	12/06/2014
AD	 Fixed the use of External Event on operating modes 2,3 and 4. 	1.1.0.3	15/08/2013
AC	 Changed the bill of materials to add the earthing spring holder. 	1.1.0.1	12/04/2013
AB	 RoHS compliant revision. 	1.1.0.1	09/02/2013
AA	■ Initial revision.	1.0.0.0	24/10/2012

2.15 BCS-NX1001 - 24 VDC 16 DI MODULE - BJ

REV	Description	Version	Date
AO	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.20	12/04/2023
AN	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.20	22/03/2022
AM	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.20	26/07/2021
AL	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.2.0.20	24/06/2020
AK	 Changes in the test system for including new product. Changes the time of Burn In. 	1.2.0.20	15/08/2017
AJ	 Enhancements for reducing the threshold voltage of internal voltage regulator. 	1.2.0.20	01/02/2017
AI	 Enhancement in factory process. Changed the product label to comply with the new revision of CE directive. 	1.2.0.20	31/08/2016
АН	 Homologation of alternative part numbers for components used on this product. 	1.2.0.20	14/06/2016
AG	 Improve the performance of the input update time. Fixed the support of filters for the inputs of Group 1. 	1.2.0.20	28/10/2015
AF	 Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. 	1.2.0.3	13/06/2014
AE	• Fixed the use of External Event on operating modes 2,3 and 4.	1.1.0.2	15/08/2013
AD	• Changed the bill of materials to added the the earthing sping holder.	1.1.0.1	12/04/2013
AC	 RoHS compliant revision. 	1.1.0.1	14/02/2013
AB	■ Changed the PCI – revision B.	1.0.0.9	30/10/2012
AA	Initial revision.	1.0.0.0	21/08/2012

Date(dd/mm/yyyy): 10/06/2025

2.16 BCS-NX6000 - 8 AI VOLTAGE/CURRENT MODULE - BJ

REV	Description	Version	Date
BD	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 	1.4.0.0	27/07/2023
ВС	 Minor changes in the product hardware to implement improvements. Document was changed to a new EM model, where it was included the AM (Modification Analysis) chapter and the RT's became an annex of the document to enhancements on documentation for internal control. 	1.4.0.0	13/06/2023
ВВ	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.4.0.0	02/12/2022
BA	 Minor improvement in the external mechanics of the product, without significant impact. 	1.4.0.0	22/03/2022
AZ	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.4.0.0	26/07/2021
AY	 Included support for the new option "Disabled" for the parameter "Open Loop Value". 	1.4.0.0	03/09/2019
AX	■ This new product revision is related to test system modifications for	1.3.0.7	05/12/2018

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including other module in test system.		
 These revisions were skipped due to integration of internal 		
documentation	-	_
	1307	24/04/2018
	1.5.0.7	24/04/2016
	1307	15/02/2018
	1.3.0.7	13/02/2010
	1303	15/09/2017
, ,	1.3.0.3	10/08/2016
	1 3 01	08/06/2016
directive.		
• 1	1.3.0.1	13/05/2016
	1301	11/05/2016
product.	1.3.0.1	11/03/2010
Emancements on the protection enealt of analog inputs.	1.3.0.1	16/11/2015
	1301	03/11/2015
	1.5.0.1	03/11/2013
1	1206	03/12/14
	1.2.0.0	03/12/11
	1.2.0.4	05/06/14
· · · · · · · · · · · · · · · · · · ·		28/05/14
	1.0.1.8	14/03/14
 Changed the bill of materials. 		
	1.0.1.8	12/07/2013
callibration process and reset operations.		
 Changed the bill of materials to add earthing sping holder. 	1.0.1.2	26/04/2013
 RoHS compliant revision. 	1012	21/02/2013
 Changed the EtherCAT vendor ID. 	1.0.1.2	21/02/2013
 Initial revision. 	1.0.0.14	24/10/2012
	 These revisions were skipped due to integration of internal documentation This new product revision is related to the change in the product overlay to fix the opening of the display window. Enhancements of diagnostics detection of analog inputs. Enhancements in detection of loss of bus master. This new product revision is related to test system modifications for including other module in test system. Enhancements on immunity against electromagnetic interference. Changed the product label to comply with the new revision of CE directive. Enhancement in factory process. Homologation of alternative part numbers for components used on this product. Enhancements on the protection circuit of analog inputs. Enhancements on the calibration process of the module (performed during factory test). Addition of a new scale +-5Vdc. Enhancements on the configuration process of the module. Enhancements on the calibration process of the analog channels (performed during factory test). Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. Enhancements in the assembly instructions. Enhancements in the Factory Test procedure. Changed the bill of materials. Changes the software version to improve the behavior of hot swap, callibration process and reset operations. Changed the bill of materials to add earthing sping holder. RoHS compliant revision. Changed the EtherCAT vendor ID. 	These revisions were skipped due to integration of internal documentation This new product revision is related to the change in the product overlay to fix the opening of the display window. Enhancements of diagnostics detection of analog inputs. Enhancements in detection of loss of bus master. This new product revision is related to test system modifications for including other module in test system. Enhancements on immunity against electromagnetic interference. Changed the product label to comply with the new revision of CE directive. Enhancement in factory process. Homologation of alternative part numbers for components used on this product. Enhancements on the protection circuit of analog inputs. Enhancements on the calibration process of the module (performed during factory test). Addition of a new scale +-5Vdc. Enhancements on the configuration process of the module. Enhancements on the configuration process of the module. Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. Enhancements in the Factory Test procedure. Changed the bill of materials. Changes the software version to improve the behavior of hot swap, callibration process and reset operations. Changed the bill of materials to add earthing sping holder. Changed the EtherCAT vendor ID.

2.17 BCS-NX6010 - 8 AI THERMOCOUPLE MODULE - BJ

REV	Description	Version	Date
AR	This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current.	1.0.0.16	27/07/2023
AQ	 Minor changes in the product hardware to implement improvements. Document was changed to a new EM model, where it was included the AM (Modification Analysis) chapter and the RT's became an annex of the document to enhancements on documentation for internal control. 	1.0.0.16	19/06/2023
AP	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.0.0.16	12/04/2023
AO	■ Enhancements on immunity against electromagnetic interference.	1.0.0.16	10/05/2022
AN	 Minor improvement in the external mechanics of the product, without significant impact. 	1.0.0.14	22/03/2022
AM	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.0.0.14	29/07/2021
AJ-AL	These revisions were skipped due to integration of internal documentation	-	-

AI	-	Changes in the scope of the source to add the BCS NJ6011 module	1.0.0.14	17/04/2018
АН	•	Enhancements on the calibration process of the module (performed during factory test).	1.0.0.13	15/09/2017
AG	•	Additional enhancements on immunity against electromagnetic interference.	1.0.0.11	10/08/2016
AF	•	Enhancements on immunity against electromagnetic interference. Changed the product label to comply with the new revision of CE directive.	1.0.0.9	08/07/2016
AE	-	Enhancement in factory process.	1.0.0.6	13/05/2016
AD	•	Homologation of alternative part numbers for components used on this product.	1.0.0.6	11/05/2016
AC		 Enchancements on the calibration process of the module (performed during factory test). Approval on EtherCAT Conformance Test. 	1.0.0.6	03/11/2015
AB		 Enhancement on the module's calibration procedure during production process. 	1.0.0.5	03/12/2014
AA		 Initial revision. 	1.0.0.4	12/06/2014

2.18 BCS-NX6020 - 8 AI RTD MODULE - BJ

REV	Description	Version	Date
AP	This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current.	1.1.0.8	27/07/2023
AO	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.8	18/04/2023
AN	 Minor improvement in the external mechanics of the product, without significant impact. 	1.1.0.8	22/03/2022
AM	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.1.0.8	29/07/2021
AL	 Support for the new hardware revision which introduces additional improvements to immunity against electromagnetic interferences. 	1.1.0.8	29/09/2020
AK	 Updated the product label for compliance of the UL certification, File Number E496087 	1.1.0.3	24/06/2020
AJ	 This revision was skipped due to integration of internal documentation 	-	-
AI	This new product revision is related to the change in the product overlay to fix the opening of the display window.	1.1.0.3	24/04/2018
AH	 This new product revision is related to modifications for including other module in test system. 	1.1.0.3	15/09/2017
AG	■ This new product revision refers to the new revision of the front label of the product, in which the indication of A next to the identification (BCS-NX6020 A) has been added so that it conforms to the standard of the Nexto Series. In addition, the Burn In time was changed.	1.1.0.3	08/05/2017
AF	 Improved immunity against electromagnetic interferences. 	1.1.0.3	13/01/2017
AE	 Changed the product label to comply with the new revision of CE directive. 	1.1.0.1	20/05/2016
AD	 Homologation of alternative part numbers for components used on this product. 	1.1.0.1	18/05/2016
AC	 Addition of a new scale of 10kΩ. 	1.1.0.1	03/11/2015
AB	 Fixed the display treatment for unsigned modules. Fixed the OTD button test on factory test mode. Enhancement on the module's reconfiguration after communication 	1.0.0.3	15/05/2014

		loss.		
AA	-	Initial revision.	1.0.0.0	21/02/2014

2.19 BCS-NX2001 - 24 VDC 16 DO TRANSISTOR MODULE - BJ

REV	Description	Version	Date
AP	 Included support for new parameter "Output behavior when CPU is in STOP" (requires BCS Tools 3.75 or greater). 	1.2.0.10	03/04/2025
AO	 No modification in the product (production documentation changed) 	1.2.0.8	31/01/2024
AN	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product.	1.2.0.8	04/05/2023
AM	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.8	16/12/2021
AL	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.8	26/07/2021
AK	Updated the product label for compliance of the UL certification, File Number E496087.	1.2.0.8	24/06/2020
AJ	 This revision was skipped due to integration of internal documentation 	-	-
AI	Changes in the test system for including new product.Changes the time of Burn In.	1.2.0.8	15/08/2017
AH	 Enhancements for reducing the threshold voltage of internal voltage regulator. 	1.2.0.8	17/02/2017
AG	 Enhancement in factory process. Changed the product label to comply with the new revision of CE directive. 	1.2.0.8	31/08/2016
AF	 Homologation of alternative part numbers for components used on this product. 	1.2.0.8	07/06/2016
AE	 Improved the performance of the output update time. 	1.2.0.8	28/10/2015
AD	 Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. 	1.2.0.3	16/06/2014
AC	 Included Graunding Clip Holder. 	1.0.1.1	12/04/2013
AB	 RoHS compliant revision. 	1.0.1.1	14/02/2013
AA	Initial revision.	1.0.0.0	24/10/2012

2.20 BCS-NX2020 - 16 DO RELAY MODULE - BJ

REV	Description	Version	Date
AM	 Updating the documentation of the packaging procedure, which changed the internal code used and adaptation in the packaging assembly. 	1.2.0.3	15/01/2025
AL	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.3	04/09/2023
AK	Integration of internal documentation		
AJ	Changes in the test system for including new product.Changes the time of Burn In.	1.2.0.3	15/08/2017
AI	 Enhancements for reducing the threshold voltage of internal voltage regulator. 	1.2.0.3	17/02/2017
AH	Enhancement in factory process.	1.2.0.3	31/08/2016
AG	Changed the product label to comply with the new revision of CE directive.	1.2.0.3	08/06/2016

AF	•	Homologation of alternative part numbers for components used on this product.	1.2.0.3	07/06/2016
AE	-	Impovements in the Factory Test system.	1.2.0.3	28/10/2015
AD		Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series.	1.2.0.3	23/06/2014
AC	•	Included Graunding Clip Holder.	1.0.1.1	12/04/2013
AB	•	RoHS compliant revision.	1.0.1.1	14/02/2013
AA	•	Initial revision.	1.0.0.0	24/10/2012

2.21 BCS-NX6100 - 4 AO VOLTAGE/CURRENT MODULE - BJ

REV	Description	Version	Date
AX	small changes in the product's hardware to remove decoupling capacitors that were inserted in the last revision of the product, but do not need to be mounted on the printed circuit board.	1.2.0.9	22/02/23
AV	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.9	02/01/2023
AU	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.9	22/03/2022
AT	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.9	26/07/2021
AS	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.2.0.9	24/06/2020
AO-AR	 These revisions were skipped due to integration of internal documentation 	-	-
AN	 This new product revision is related to modifications for including other module in test system. 	1.2.0.9	25/09/2017
AM	 This new product revision is related the inclusion in news part numbers for internal codes with same electrical characteristics and with RoHS compliance. 	1.2.0.9	05/10/2016
AL	 Changed the product label to comply with the new revision of CE directive. 	1.2.0.9	11/07/2016
AK	 Enhancement in factory process. 	1.2.0.9	13/05/2016
AJ	 Homologation of alternative part numbers for components used on this product. 	1.2.0.9	11/05/2016
AI	Enhancements on hot swap.	1.2.0.9	27/01/2016
АН	 Enchancements on the calibration process of the module (performed during factory test). 	1.2.0.7	03/11/2015
AG	 Enhancements on the calibration process of the analog channels (performed during factory test). 	1.2.0.5	03/12/2014
AF	 Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. 	1.2.0.4	12/06/2014
AE	 Included the support for new hardware revision. 	1.0.1.5	13/03/2014
AD	 Improvements on hot-swap logic. Improvements on module reconfiguration logic after a project download. 	1.0.1.3	03/06/2013
AC	Changed the bill of materials to add the earthing sping holder.	1.0.1.1	12/04/2013
AB	RoHS compliant revision.	1.0.1.1	21/02/2013
AA	Initial revision.	1.0.0.13	24/10/2012

2.22 BCS-NX4000 - BUS EXPANSION MODULE - BJ

REV Description	Version	Date

	_			i i
AP	•	Improved stability of power-on under specific conditions.	1.1.0.7	29/11/2021
AO	•	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.1.0.7	30/07/2021
AN	•	Included protectors for the product connectors.	1.1.0.7	24/09/2020
AM	-	Updated the product label for compliance of the UL certification, File Number E496087.	1.1.0.7	04/06/2020
AJ-AL	•	These revisions were skipped due to integration of internal documentation	-	-
AI	•	Changed the product label to comply with the new revision of CE directive.	1.1.0.7	31/08/2016
АН	•	Homologation of alternative part numbers for components used on this product.	1.1.0.7	20/06/2016
AG	•	Improvements on module startup.	1.1.0.7	25/01/2016
AF	•	Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series.	1.1.0.5	26/06/2014
AE	•	Improvements on Factory Test system.	1.1.0.2	11/11/2013
AD	•	Improvements in the hardware revision.	1.1.0.2	12/08/2013
AC	•	Enhancement in the LCD test during start up. Enhancement in the OTD function of the factory test. Enhancement during start up of local diagnostics.	1.1.0.2	09/07/2013
AB	•	RoHS compliant revision.	1.1.0.0	12/04/2013
AA	•	Initial revision.	1.1.0.0	21/02/2013

2.23 BCS-NX4010 - REDUNDANCY LINK MODULE - BJ

REV	Description	Version	Date
AP	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.0.17	08/02/2023
AO	In this revision there were only internal changes in the documentation.	1.0.17	02/08/2022
AN	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.0.17	30/07/2021
AM	 Included protectors for the product connectors. 	1.0.1.7	24/09/2020
AL	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.0.1.7	04/06/2020
AG-AK	 These revisions were skipped due to integration of internal documentation 	-	-
AF	 Changed the product label to comply with the new revision of CE directive. 	1.0.1.7	08/06/2016
AE	 Homologation of alternative part numbers for components used on this product. 	1.0.1.7	07/06/2016
AD	 Enhancements on test software 	1.0.1.7	05/02/2016
AC	 Approval on EtherCAT Conformance Test. 	1.0.1.7	16/06/2014
AB	 Changed the bill of materials to include the ground spring holder. 	1.0.1.0	12/04/2013
AA	Initial revision.	1.0.1.0	28/01/2013

2.24 BCS-NX9000 - 8-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
AG	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		26/07/2021
AF	■ Included the Left/Right Side Rack Ends in the product structure.	NA	11/11/2020

2.25 BCS-NX9001 - 12-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
AR	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	26/07/2021
AQ	 Included the Left/Right Side Rack Ends in the product structure. 	NA	11/11/2020
AK-AP	 These revisions were skipped due to integration of internal documentation 	ı	-
AJ	 Updated the product label for compliance of the UL certification, File Number E496087 	NA	06/02/2018
AI	This new product revision refers to the withdrawn of the Burn In step from the production process. In addition, the Left/Right Side Rack Ends has been removed from the product structure.	NA	26/06/2017
AH	 Enhancements on factory test system to improve fault detection coverage. 	NA	01/08/2016
AG	 Changed the product label to comply with the new revision of CE directive. 	NA	13/06/2016
AF	 Enhancement in factory process. 	NA	23/03/2016
AE	 Impovements on the package (included a plastic bag). 	NA	09/12/2014
AD	 Impovements on the Factory Test system. 	NA	22/01/2014
AC	Impovements on the package.RoHS compliant revision.	NA	14/03/2013
AB	 Label printed using a new printer. 	NA	30/10/2012
AA	 Initial revision. 	NA	21/08/2012

2.26 BCS-NX9002 - 16-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
AT	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	30/07/2021
AS	 Included the Left/Right Side Rack Ends in the product structure 	NA	11/11/2020
AR	 Updated the product label for compliance of the UL certification, File Number E496087 	NA	04/06/2020
AI-AQ	 These revisions were skipped due to integration of internal documentation 	-	-
АН	This new product revision refers to the withdrawn of the Burn In step from the production process. In addition, the Left/Right Side Rack Ends has been removed from the product structure.	NA	26/06/2017
AG	 Enhancements on factory test system to improve fault detection coverage. 	NA	01/08/2016
AF	 Changed the product label to comply with the new revision of CE directive. 	NA	02/07/2016
AE	 Enhancement in document of the subassembly. 	NA	23/03/2016
AD	 Impovements on the package (included a plastic bag). 	NA	09/12/2014

AC	-	Impovements on the Factory Test system.	NA	22/01/2014
AB	•	Impovements on the package. RoHS compliant revision.	NA	14/03/2013
AA	•	Initial revision.	NA	24/10/2012

2.27 BCS-NX9003 - 24-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
AT	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	03/08/2021
AS	■ Included the Left/Right Side Rack Ends in the product structure.	NA	11/11/2020
AJ-AR	 These revisions were skipped due to integration of internal documentation 	-	-
AI	Updated the product label for compliance of the UL certification, File Number E496087	NA	17/04/2018
АН	This new product revision refers to the withdrawn of the Burn In step from the production process. In addition, the Left/Right Side Rack Ends has been removed from the product structure.	NA	26/06/2017
AG	Enhancements on factory test system to improve fault detection coverage.	NA	01/08/2016
AF	Changed the product label to comply with the new revision of CE directive.	NA	05/07/2016
AE	■ Enhancement in document of the subassembly.	NA	23/03/2016
AD	 Impovements on the package (included a plastic bag). 	NA	09/12/2014
AC	■ Impovements on the Factory Test system.	NA	22/02/2014
AB	Impovements on the package.RoHS compliant revision.	NA	26/04/2013
AA	■ Initial revision.	NA	24/10/2012

2.28 BCS-NX9010 - 8-SLOT BACKPL. RACK (NO HOTSWAP)-BJ

REV	Description	Version	Date
AF	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.		02/08/2021
AE	 Included the Left/Right Side Rack Ends in the product structure. 	NA	11/11/2020
AD	Updated the product label for compliance of the UL certification, File Number E496087	NA	06/02/2018
AC	This new product revision refers to the withdrawn of the steps of Burn In and Coating from the production process.	NA	26/06/2017
AB	• Changed the product label to comply with the new revision of CE directive.	NA	17/11/2016
AA	Initial revision.	NA	31/07/2015

2.29 BCS-NX9020 - 2-SLOT MOUNTING PANEL - BJ

REV	Description	Version	Date
AD	 Updated the product label for compliance of the cUL certification File Number E496087. 	NA	01/08/2023
AC	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product.		20/06/2023

AB	•	Integration of internal documentation.	NA	29/05/2019
AA	•	Initial revision.	NA	10/07/2018

2.30 BCS-NX9100 - LEFT/RIGHT SIDE RACK ENDS - BJ

REV	Description	Version	Date
AE	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		11/08/2021
AD	 This revision was skipped due to integration of internal documentation 	-	-
AC	 Updated the product label for compliance of the UL certification, File Number E496087 Simplification of the production process 	NA	26/03/2018
AB	 Changed the product label to comply with the new revision of CE directive. 	NA	05/07/2016
AA	 Initial revision. 	NA	15/03/2013

2.31 BCS-NX9101 - 32GB MICROSDHC WITH MINISD ADAP - BJ

REV	Description	Version	Date
AC	 Changed from 8GB to 32GB 	NA	21/11/2018
AB	 Updating of the documentation of the packaging procedure, which changed the internal code of the label used. Updating of the product label for compliance of the new version of the CE standard. 	NΔ	23/01/2018
AA	 Initial revision. 	NA	21/11/2013

2.32 BCS-NX9102 - BACKPLANE CONNECTOR COVER - BJ

REV	Description	Version	Date
AJ	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	26/07/2021
AI	 This revision was skipped due to integration of internal documentation 	-	-
АН	Updated the product label for compliance of the UL certification, File Number E496087.	NA	23/01/2019
AE-AG	 These revisions were skipped due to integration of internal documentation 	-	-
AD	 Updating of the documentation of the packaging procedure, which changed the internal code of the label used. 	NA	23/01/2018
AC	 Changed the product label to comply with the new revision of CE directive. 	NA	13/06/2016
AB	 Changed color of the packet label to gray. 	NA	06/08/2013
AA	Initial revision.	NA	31/10/2012

2.33 BCS-NX9401 - 6-TERMINAL CONNECTOR - BJ

REV	Description	Version	Date
AD	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		11/08/2021

AC	•	This revision was skipped due to integration of internal documentation.	-	-
AB	•	Updating of the product label for compliance of the new version of the CE standard. Updating of the documentation of the packaging procedure, which changed the internal code of the label used.	NA	10/01/2018
AA		Initial revision.	NA	21/11/2013

2.34 BCS-NX9402 - 10-TERM. CONNECTOR WIRE HOLDER - BJ

REV	Descrip	otion	Version	Date
AB	•	Updating of the product label for compliance of the new version of the CE standard. Updating of the documentation of the packaging procedure, which changed the internal code of the label used.	NΔ	11/01/2018
AA	-	Initial revision.	NA	05/08/2013

2.35 BCS-NX9403 - 20-TERM. CONNECTOR WIRE HOLDER - BJ

REV	Description	Version	Date
AD	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		11/08/2021
AC	 This revision was skipped due to integration of internal documentation. 	-	-
AB	 Updating of the product label for compliance of the new version of the CE standard. Updating of the documentation of the packaging procedure, which changed the internal code of the label used. 	NA	10/01/2018
AA	Initial revision.	NA	05/08/2013

2.36 BCS-NX9404 - 06-TERM.CONNECTOR SCREW FIXING - BJ

REV	Description	Version	Date
AE	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	11/08/2021
AD	 This revision was skipped due to integration of internal documentation. 	-	-
AC	 Updating of the documentation of the packaging procedure, which changed the internal code of the label used. 	NA	23/01/2018
AB	 Changed the product label to comply with the new revision of CE directive. 	NA	05/07/2016
AA	 Initial revision. 	NA	05/06/2014

2.37 BCS-NX9405 - 12-TERMINAL CONNECTOR SCREW FIXING - BJ

ĺ	REV		Description	Version	Date
	AA	•	Initial revision.	NA	17/07/2018

2.38 BCS-NX9406 - 18-TERMINAL CONNECTOR SCREW FIXING - BJ

REV	Description	Version	Date
AB	 Enhancements on internal documentation. 	NA	04/09/2023

AA	•	Initial revision.	NA	17/07/2018
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2.39 BCS-NX5001 - PROFIBUS DP MASTER MODULE - BJ

REV	Descrip	otion	Version	Date
BB	•	Improvement in the power system related to In-rush current.	1.3.0.6	10/02/2025
BA	Guide with the product. UKCA Certification marking included on product.		1.3.0.6	24/02/2023
AZ	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.		1.3.0.6	30/07/2021
AY	•	Fixed a problem where the diagnostic that informs the slave presence (abySlv_State[x]) could not indicate correctly the absence of the slave on the network when the project has a large number of slaves.	1.3.0.6	16/11/2020
AX	•	Included protectors for the product connectors.	1.3.0.5	24/09/2020
AW	•	Updated the internal code of the flash memory of the product.	1.3.0.5	19/07/2019
AV	-	PROFIBUS Certification.	1.3.0.5	01/07/2019
AK-AU	•	These revisions were skipped due to integration of internal documentation.	-	-
AJ	•	Updated the product label for compliance of the UL certification, File Number E496087. Change in the product overlay to fix the opening of the display window.	1.3.0.2	11/06/2018
AI	-	Changed burn-in time performed on manufacutring process.	1.3.0.2	10/05/2017
AH	•	Changed the product label to comply with the new revision of CE directive.	1.3.0.2	22/09/2016
AG	•	Homologation of alternative part numbers for components used on this product.	1.3.0.2	20/06/2016
AF	•	Included the support for Scan for Devices feature.	1.3.0.2	15/01/2016
AE		Included the support for DPV1 commands: Read Request and Write Request. Included the support to synchronize input data and output-data of DP-Slaves (Global Control Commands: Freeze/Unfreeze/Sync/Unsync). Included the support to new Project Profile called "Machine Profile". Enhancements on configuration process of NX5001 during the startup.	1.2.0.6	22/07/2015
AD	•	Approval on EtherCAT Conformance Test.	1.1.1.4	13/06/2014
AB	•	RoHS compliant revison.	1.1.1.1	31/01/2013
AA	•	Initial revision.	1.1.0.16	24/10/2012

2.40 BCS-NX5000 - ETHERNET MODULE - BJ

REV	Descrip	otion	Version	Date
AV	•	Improvement in the power system related to In-rush current.	1.2.5.0	10/02/2025
AU	•	Fixed a problem on closing TCP/IP connections which could cause sporadic communication failures.	1.2.5.0	02/10/2024
AT	•	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product.		18/10/2023

1.0.0.10

24/10/2012

2.41 BCS-NX5110 - PROFIBUS DP HEAD - BJ

Initial revision.

AA

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REV	Description	Version	Date
BA	 Updated product subassembly document due to approval of alternative component PN due to market unavailability. 	1.2.3.2	19/05/2025
AZ	 Included support to a new part number of LCD display (no change in visual and/or functionality). 	1.2.3.2	03/04/2025
AY	This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product.	1.2.3.0	15/10/2024
AX	 Support for new modules NX6014 and NX6134 (only analog I/O functionality, HART over PROFIBUS is not available yet). 	1.2.3.0	21/11/2023
AW	 Updated the product label that was changed to contain a QR Code and a link to its technical documentation and also to include UKCA certification. 	1.2.0.0	16/11/2023
AV	 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.0	26/07/2021
-	 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. 	1.1.2.12	26/07/2021
AU	 Removed the hidden page "getlogs" from the system web page to improve cyber security. 	1.1.2.10	13/01/2021
AT	 Included protectors for the product connectors. 	1.1.2.8	24/09/2020
AS	Fixed a problem introduced on previous version related to diagnostic indication.	1.1.2.8	01/07/2019
AR	 PROFIBUS Certification. 	1.1.2.7	08/04/2019
AQ	 Included support for Nexto Safety modules. Updated the product label for compliance of the UL certification, File Number E496087. 	1.1.2.5	12/02/2019
AN-AP	 These revisions were skipped due to integration of internal documentation. 	-	-
AM	Changed burn-in time performed on manufacutring process.	1.1.1.16	05/10/2017
AL	 Homologation of alternative part numbers for components used on 	1.1.1.16	11/01/2017

		this product.		
AK	-	Enhancements in performance of the modules hot-swap circuit.	1.1.1.16	13/12/2016
AJ	•	New revision of the PCB due to increase the power supply's performance (hot swap when in redundant mode). Changed the product label to comply with the new revision of CE directive.	1.1.1.16	06/09/2016
AI	•	Homologation of alternative part numbers for components used on this product.	1.1.1.16	25/05/2016
АН	•	Included support for Nexto Jet solution for modules BCS-NJ1001, BCS-NJ2001, BCS-NJ6000, BCS-NJ6010, BCS-NJ6020 and BCS-NJ6100. Fixed a compatibility issue with PROFIBUS Master from AL Series AL-3406	1.1.1.16	15/01/2016
AG	• •	Included support for Scan Devices feature. Included support for NX9010 rack.	1.1.0.6	15/09/2015
AF	•	Enhancements on the safe state of analog output channels.	1.0.0.25	06/05/2015
AE		Enhancements on configuration process of I/O modules during the startup.	1.0.0.15	29/01/2015
AD	•	Included support for NX9999 e NX9000.	1.0.0.12	15/12/2014
AA	•	Initial revision.	1.0.0.0	10/10/2014

2.42 BCS-NX5210 - REDUNDANT PROFIBUS DP HEAD - BJ

REV	Description	Version	Date
AY	 Updated product subassembly document due to approval of alternative component PN due to market unavailability. 	1.2.3.2	19/05/2025
AW	 Included support to a new part number of LCD display (no chan in visual and/or functionality). 	ge 1.2.3.2	03/04/2025
AV	 This new product revision refers to changes in intern documentation, in which similar products were changed, which cannot affect this product 	lid 1.2.3.0	10/01/2025
AU	 Support for new modules NX6014 and NX6134 (only analog I functionality, HART over PROFIBUS is not available yet). 	1.2.3.0	21/11/2023
AT	 Updated the product subassembly document due to the approval an alternative PN of the component (00.960.143-0) P SFCS302405C from the manufacturer Cosel and for the inclusi of special formatting instructions for this component. 	N: 1200	06/09/2023
AS	 Change of the product label, which now includes a QR Code w the path to the Technical Documentation of the product on t website. This change makes it unnecessary to follow the Installati Guide with the product. UKCA Certification marking included on product. 	he	04/09/2023
AR	 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in son units before this revision. 	1.2.0.0	26/07/2021
-	 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. 	1.1.2.12	26/07/2021
AQ	 Removed the hidden page "getlogs" from the system web page improve cyber security. 	to 1.1.2.10	13/01/2021
AP	 Included protectors for the product connectors. 	1.1.2.8	24/09/2020
AO	 Fixed a problem introduced on previous version related to diagnostic indication. 	1.1.2.8	01/07/2019
AN	 PROFIBUS Certification. 	1.1.2.7	08/04/2019
AM	 Included support for Nexto Safety modules. Updated the product label for compliance of the UL certification 	on, 1.1.2.5	12/01/2019

	File Number Change in twindow.	E496087. He product overlay to fix the opening of the display		
AK-AL	 These revision documentation 	ions were skipped due to integration of internal on.	-	-
AJ	 Changed but 	rn-in time performed on manufacutring process.	1.1.1.16	05/10/2017
AI	 Homologation this product. 	on of alternative part numbers for components used on	1.1.1.16	11/01/2017
AH	■ Enhancemen	its in performance of the modules hot-swap circuit.	1.1.1.16	13/12/2016
AG	 Changed the directive. 	product label to comply with the new revision of CE	1.1.1.16	23/09/2016
AF	 Homologation this product. 	on of alternative part numbers for components used on	1.1.1.16	25/05/2016
AE	BCS-NJ200 NJ6100. • Fixed a com Series AL-3	port for Nexto Jet solution for modules BCS-NJ1001, 1, BCS-NJ6000, BCS-NJ6010, BCS-NJ6020 and BCS-patibility issue with PROFIBUS Master from AL 406 ats on the redundancy feature.	1.1.1.16	15/01/2016
AD	-	oport for Scan Devices feature. Oport for NX9010 rack.	1.1.0.6	15/09/2015
AC	■ Enhancemen	its on the safe state of analog output channels.	1.0.0.25	06/05/2015
AB	startup. • Enhancemer	ats on configuration process of I/O modules during the ats to the network redundancy algorithm.	1.0.0.15	29/01/2015
AA	 Initial revision 	on.	1.0.0.12	15/12/2014

2.43 BCS-NX5100 - MODBUS TCP HEAD - BJ

REV	Description	Version	Date		
AQ	 Included support to a new part number of LCD display (no change in visual and/or functionality). Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. 	1.14.36.7	03/04/2025		
AP	■ Support for BCS Tools 3.61	1.14.20.0	14/02/2024		
AO	Support for BCS Tools 3.52New graphical design of System Web Page	1.12.29.0	05/09/2023		
AN	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.12.23.0	01/08/2023		
AM	 Improvements on System Web Page: New Network tab, which now allows to change the IP configuration and also re-introduces the embedded network sniffer. Login unification (now it will be requested only in the Management tab). After the update, the credentials will be reset to default. Optimization in the time required to perform the firmware update process. 	1.12.23.0	22/06/2023		
AL	 No modification in the product (production documentation changed). 	1.12.5.3	30/05/2023		
AK	 Support for BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed potential exception when an application is removed (reset 	1.12.5.3	15/12/2022		
Beijer Ele	Beijer Electronics AB				

AC

AA-AB

Initial revision.

Date(dd/mm/yyyy): 10/06/2025

 $1.0.0.\overline{5}$

1.0.0.1

29/06/2017

09/05/2017

2.44 BCS-NX5101 - MODBUS TCP HEAD, 14 DI, 10 DOT (NO HOTSWAP) - BJ

Oficial revision after conclusion of the development.

REV	Description	Version	Date
AN	 Included support to a new part number of LCD display (no change in visual and/or functionality). Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. 	1.14.36.7	03/04/2025
AM	■ Support for BCS Tools 3.61	1.14.20.0	08/02/2024
AL	 Support for BCS Tools 3.52 New graphical design of System Web Page 	1.12.29.0	05/09/2023
AK	 Improvements on System Web Page: New Network tab, which now allows to change the IP configuration and also re-introduces the embedded network sniffer. Login unification (now it will be requested only in the Management tab). After the update, the credentials will be reset to default. Optimization in the time required to perform the firmware update process. 	1.12.23.0	22/06/2023
AJ	 No modification in the product (production documentation changed). 	1.12.5.3	19/05/2023

AI	 Hardware improvement to suport new PHY component (shortage issue) 	1.12.5.3	05/04/2023
AH	• Fixed hardware problem where the power source does not turn on when the bus is with full load.	1.12.5.3	24/01/2023
AG	 Support for BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed potential exception when an application is removed (reset origin). 	1.12.5.3	15/12/2022
AF	 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. 	1.11.2.0	26/07/2021
-	 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Improvements in "one touch diag" feature. 	1.9.29.0	26/07/2021
AE	 Removed the hidden page "getlogs" from the system web page to improve cyber security. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly. 	1.9.25.0	13/01/2021
AD	 Included support for visualization of the integrated I/O by LCD (menu Hardware). Fixed "wrong slot" problem related to the usage of the NX9020 rack. Fixed the problem where the Web page don't update its elements properly. 	1.9.8.0	09/11/2020
AC	 Included protectors for the product connectors. 	1.7.9.0	24/09/2020
AB	Changed bootloader from version 1.0.0.13 to 1.0.0.14 due to code sharing with CPU, but with no functional modification on this product since it dont have RS-485 interface.	1.7.9.0	06/11/2019
AA	Initial revision.	1.7.9.0	04/02/2019

2.45 BCS-NJ1001 - 24 VDC 16 DI MODULE NEXTO JET - BJ

REV		Description	Version	Date
AM		Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product.	1.2.0.20	23/01/23
AL	•	UKCA Certification marking included on product.	1.2.0.20	14/10/2022
AK	•	Minor improvement in the external mechanics of the product, without significant impact.	1.2.0.20	16/11/21
AG-AJ	•	These Reviews were ignored due to the integration of internal documentation	-	-
AF	•	Inclusion of the Installation Guide in the product BOM. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.E496087	1.2.0.20	17/05/2018
AE		Changes in the test system for including new product. Changes the time of Burn In.	1.2.0.20	15/08/2017
AD	•	Enhancement in factory process.	1.2.0.20	31/08/2016
AC	•	Changed the product label to comply with the new revision of CE directive.	1.2.0.20	06/06/2016
AB	•	Homologation of alternative part numbers for components used on this product.	1.2.0.20	19/05/2016
AA	•	Initial revision.	1.2.0.20	16/10/2015

2.46 BCS-NJ1005 - 24 VDC 8 DOT/8 DI MIXED MODULE NEXTO JET - BJ

REV	Description	Version	Date
AE	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. 	1.2.0.7	18/05/2023
AD	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.7	14/04/2023
AC	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.7	22/03/2022
AB	 Integration of internal documentation. 	1.2.0.7	15/05/2020
AA	■ Initial revision.	1.2.0.7	15/08/2017

Date(dd/mm/yyyy): 10/06/2025

2.47 BCS-NJ2001 - 24 VDC 16 DO TRANSISTOR MODULE NEXTO JET -BJ

REV		Description	Version	Date
AL		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.8	01/03/23
AK	•	Minor improvement in the external mechanics of the product, without significant impact.	1.2.0.8	16/12/2021
AH-AJ	•	These revisions were skipped due to integration of internal documentation.	-	-
AG	•	Inclusion of the Installation Guide in the product BOM. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.E496087	1.2.0.8	17/05/2018
AF	•	Changes in the test system for including new product. Changes the time of Burn In.	1.2.0.8	15/08/2017
AE	•	This new review of the product is related to improvements in the production process. Due to the inclusion of universal pallets in the assembly.	1.2.0.8	17/10/2016
AD	•	Enhancement in factory process.	1.2.0.8	31/08/2016
AC	•	Changed the product label to comply with the new revision of CE directive.	1.2.0.8	06/06/2016
AB	•	Homologation of alternative part numbers for components used on this product.	1.2.0.8	19/05/2016
AA	•	Initial revision.	1.2.0.8	16/10/2015

2.48 BCS-NJ6000 - 8 AI VOLTAGE/CURRENT MODULE NEXTO JET - BJ

REV	Description	Version	Date
AP	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 		27/07/2023
AO	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 		13/06/2023
AN	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product.	1.4.0.0	17/04/2023

	UKCA Certification marking included on product.		
AM	 Minor improvement in the external mechanics of the product, without significant impact. 	1.4.0.0	16/12/2021
AL	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.4.0.0	29/07/2021
AK	 Enhancement in factory process. 	1.4.0.0	06/05/2020
AJ	 Included support for the new option "Disabled" for the parameter "Open Loop Value". 	1.4.0.0	03/09/2019
AI	Small text correction on Installation Guide	1.3.0.7	06/12/2018
АН	 Enhancements of diagnostics detection of analog inputs. Enhancements in detection of loss of bus master. Inclusion of the Installation Guide in the product BOM. Updated the product label for compliance of the UL certification, File Number E496087. 	1.3.0.7	15/02/2018
AG	This new product revision is related to modifications for including other module in test system.	1.3.0.3	15/09/2017
AF	■ Enhancements on immunity against electromagnetic interference.	1.3.0.3	10/08/2016
AE	 Changed the product label to comply with the new revision of CE directive. 	1.3.0.1	31/05/2016
AD	■ Enhancement in factory process.	1.3.0.1	13/05/2016
AC	 Homologation of alternative part numbers for components used on this product. 	1.3.0.1	11/05/2016
AB	■ Hardware enhancements.	1.3.0.1	16/11/2015
AA	■ Initial revision.	1.3.0.1	24/09/2015

2.49 BCS-NJ6001 - 6 AI V/I MODULE NEXTO JET 12 BITS - BJ

REV		Description	Version	Date
AI		 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. 	1.1.0.1	10/05/2023
АН		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.1	19/12/2022
AG	•	Minor improvement in the external mechanics of the product, without significant impact.	1.1.0.1	22/03/2022
AF	•	Enhancement in factory process.	1.1.0.1	15/05/2020
AE	•	Included support for 4-20 scale and for the new parameter "Open Circuit Value".	1.1.0.1	03/09/2019
AB-AD	•	These revisions were skipped due to integration of internal documentation.	-	-
AA	•	Initial revision.	1.0.0.14	08/05/2018

2.50 BCS-NJ6005 - 6 Al/4 AO V/I MIXED MODULE NEXTO JET - BJ

REV		Description	Version	Date
AN		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.1	19/01/2023
AM	•	Minor improvement in the external mechanics of the product, without significant impact.	1.1.0.1	22/03/2022

AL	•	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.1.0.1	30/07/2021
AK	•	Enhancement in factory process.	1.1.0.1	15/05/2020
AJ	•	Included support for 4-20 scale and for the new parameter "Open Circuit Value".	1.1.0.1	03/09/2019
AB-AI	•	These revisions were skipped due to integration of internal documentation.	-	-
AA	-	Initial revision.	1.0.0.14	08/05/2018

2.51 BCS-NJ6010 - 8 AI THERMOCOUPLE MODULE NEXTO JET - BJ

REV		Description	Version	Date
AP	-	This new product revision refers to the minor changes in the product	1.0.0.16	27/07/2023
		hardware to implement improvements related to the inrush current.	1.0.0.10	2110112023
AO	•	This new product revision refers to the minor changes in the product	1.0.0.16	19/06/2023
		hardware to implement improvements related to the inrush current.		
		• Change of the product label, which now includes a QR Code with		
437		the path to the Technical Documentation of the product on the	10016	10/04/0000
AN		website. This change makes it unnecessary to follow the	1.0.0.16	12/04/2023
	_	Installation Guide with the product.		
43.6	•	UKCA Certification marking included on product.	10016	26404000
AM	•	Enhancements on immunity against electromagnetic interference.	1.0.0.16	26/10/2022
AL	•	Minor improvement in the external mechanics of the product, without significant impact.	1.0.0.14	22/03/2022
	-	Updated UL Mark adding cUL (Canada). Due to the process of		
AK		introduction on production line, this update may be present in some	1.0.0.14	30/07/2021
		units before this revision.		
AJ	-	Enhancement in factory process.	1.0.0.14	15/05/2020
	-	Change in the firmware source code to add a new module (BCS-		
		NJ6011) on compilation scope.		
ΑI	•	Inclusion of the Installation Guide in the product BOM.	1.0.0.14	17/05/2018
	•	Updated the product label for compliance of the UL certification, File		
		Number E496087		
AH	•	This new product revision is related to modifications for including	1.0.0.13	15/09/2017
7111		other module in test system.	1.0.0.13	13/07/2017
AG	•	Additional enhancements on immunity against electromagnetic	1.0.0.11	10/08/2016
710		interference.	1.0.0.11	
AF	•	Enhancements on immunity against electromagnetic interference.	1.0.0.9	08/07/2016
AE	•	Changed the product label to comply with the new revision of CE	1.0.0.6	20/05/2016
7 112		directive.		
AD	•	Enhancement in factory process.	1.0.0.6	13/05/2016
AC	-	Homologation of alternative part numbers for components used on this	1.0.0.6	11/05/2016
710		product.	1.0.0.0	11/03/2010
AB	•	Hardware enhancements.	1.0.0.6	30/11/2015
AA	-	Initial revision.	1.0.0.6	25/09/2015

2.52 BCS-NJ6011 - MIXED ANALOG MODULE NEXTO JET - BJ

REV	Description	Version	Date
AJ	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 	1.0.0.16	27/07/2023
AI	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 	1.0.0.16	20/06/2023
AH	■ This new product revision refers to changes in internal	1.0.0.16	16/05/2023

	documentation, in which similar products were changed, which did not affect this product.		
AG	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product.	1.0.0.16	12/04/2023
AF	■ Enhancements on immunity against electromagnetic interference.	1.0.0.16	26/10/2022
AE	 Minor improvement in the external mechanics of the product, without significant impact. 	1.0.0.14	22/03/2022
AD	■ Enhancement in factory process.	1.0.0.14	15/05/2020
AB-AC	 These revisions were skipped due to integration of internal documentation. 	-	-
AA	Initial revision.	1.0.0.14	08/05/2018

2.53 BCS-NJ6020 - 8 AI RTD MODULE NEXTO JET - BJ

REV	Description	Version	Date
AO	This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current.	1.1.0.8	27/07/2023
AN	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.8	18/04/2023
AM	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. 	1.1.0.8	06/01/2022
AL	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.1.0.8	29/07/2021
AK	 Support for the new hardware revision which introduces additional improvements to immunity against electromagnetic interferences. 	1.1.0.8	29/09/2020
AJ	Integration of internal documentation.	1.1.0.3	24/06/2020
AI	 Small text correction on Installation Guide Updated the product label for compliance of the UL certification, File Number E496087. 	1.1.0.3	06/12/2018
AH	This revision was skipped due to integration of internal documentation.	-	-
AG	 Inclusion of the Installation Guide in the product BOM. 	1.1.0.3	17/05/2018
AF	Changes in the test system for including new product.Changes the time of Burn In.	1.1.0.3	15/09/2017
AE	Improved immunity against electromagnetic interferences.	1.1.0.3	13/01/2017
AD	 Changed the product label to comply with the new revision of CE directive. 	1.1.0.1	11/07/2016
AC	 Homologation of alternative part numbers for components used on this product. 	1.1.0.1	18/05/2016
AB	Hardware enhancements.	1.1.0.1	29/01/2016
AA	Initial revision.	1.1.0.1	31/07/2015

2.54 BCS-NJ6100 - 4 AO VOLTAGE/CURRENT MODULE NEXTO JET - BJ

REV	Description	Version	Date
AO	 small changes in the product's hardware to remove decoupling capacitors that were inserted in the last revision of the product, 	1.2.0.9	22/02/2023

2.55 BCS-NJ6101 - 4 AO V/I MODULE NEXTO JET 12 BITS - BJ

REV		Description	Version	Date
AI		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.1	14/04/2023
AH	•	Minor improvement in the external mechanics of the product, without significant impact.	1.1.0.1	22/03/2022
AG	-	Enhancement in factory process.	1.1.0.1	15/05/2020
AF	-	Included support for 4-20 scale.	1.1.0.1	03/09/2019
AB-AE	•	These revisions were skipped due to integration of internal documentation.	-	-
AA	•	Initial revision.	1.0.0.14	08/05//2018

2.56 GSD Files - PROFIBUS DP HEAD NX OEM

REV		Description	Scope	Version	Date
AB		Included new scales for NX6000 and NX6020 modules. Included the file ALNJ0EDD.GSD, with support for the I/O Modules of Nexto Jet solution.	GSD	1.0.1.4	08/12/2015
AA	-	Initial revision.	GSD	1.0.0.0	10/09/2015

3. BCS Tools Series

3.1 BCS-MT8500/ADV - BCS-MT8500/LITE - BCS-MT8500/PRO - BCS-MT8500/BASIC - BCS-MT8500/BIG

Date(dd/mm/yyyy): 10/06/2025

REV	Description	Version	Date
ВН	 Fixed a problem introduced on version 3.51 where the Project Update would cause an unintended modification in redundant areas (Special_Variables_Redundant GVL), preventing the non-active PLC to get into Stand-by state after a download with project synchronization disabled. Fixed configuration issues with GT-3C74, GT-3C78, GT-3C94, and GT-3C98 modules in the Distributed IO Configurator. Changed the default MainTask interval to 100ms for NX CPUs. Changed the messages during Project Update and Firmware Version check to inform the user about the conditions and consequences of an update, helping to avoid unnecessary modifications and interruptions to the control system. Changed the default option of "Enable diagnosis for devices" in the PLC Settings to Disabled (it was enabled in version 3.40). Info: This version was built with CODESYS Development System 3.5.18.60. 	3.71	24/03/2025
BG	 Added support for "Codesys Control Win V3 x64" (demo mode only). Added official support for SparkPlugB Library. Added new screen which shows the memory consumption on projects with NX and XP CPUs (Device/MemoryConsumption). Added support for GT-224F, GT-227F, GT-2378, GT-2438, GT-3C74, GT-3C94, GT-3C94, GT-3C98, GT-4334, GT-4354, and GT-4374 modules on Distributed IO Configurator. Changed to enable the 'Write Complete PDO Configuration' checkbox in the CANOpen configurator. Updated the BSD Device Configurator to change the STRUCT and library to remove 8-bit datatype variables. Updated the CFC package to enhance performance in the refactoring feature. Fixed an internal error in BCS Tools that occurred during project updates when an external library was using an outdated version of library IoDrvNextoModbus. Fixed an issue that could result in error when trying to add an OPC UA Information Model to the project. Fixed an issue in redundant projects using Modbus Direct, where the execution of a STOP command for a CPU was experiencing significant delays. Fixed an issue in Symbol Configuration where selecting a GVL (or other symbol) from a library did not generate code properly, resulting in the symbol not being selected when using NX or XP controllers. Fixed an issue where the Redundancy Configuration could not effectively apply a modification after a specific sequence of unchecking and checking an item. Fixed an issue where the EtherCAT task cycle time verification was not functioning correctly for X2 devices. Fixed the BSD Device Configurator in Px mode, where some variables were incorrectly fixed. Fixed the issue with project updates when an external EDS was not installed prior to the update. Fixed the message displayed when the user executes the stop command in redundant projects. 	3.70	29/11/2024

	• Improved performance by removing the check for the limit on the		
	number of variables in a POU. Improved the Easy Connection confirmation message to prompt users to		
	save a project backup.		
	Removed the Tools/Package Manager command.		
	• Info: This version was built with CODESYS Development System		
	3.5.18.60.		
	 Added support to use NX8000 with NX3008. Added new J1939 Database (discontinued in 3.40). 		
	 Added diagnostic to inform when the network configuration is defined 		
	by the system webpage.		
	• Added support for GT-3744, GT-4314, M3744, and M4314 modules on		
	Distributed IO Configurator.		
	Added ML9089 Ethernet IP device. Helded RSD Drive Confirments are part Parent CSn and described as a second confirment and confirment are parent parent.		
	 Updated BSD Drive Configurator to support Px and CSx modes. Updated DD files for Beijer BSD devices. 		
	 Updated G series devices: 		
	PIO devices.		
	■ GL-9086 EtherCAT device.		
	GL-9087 PROFINET device.GL-9386 EtherCAT device.		
	GL-9386 EtherCAT device.GN-9222 Profibus DP device.		
BF	 Updated M series devices: 	3.63	30/09/2024
	 PIO devices. 		
	■ M9222 Profibus DP device.		
	M9287 PROFINET device.M9386 EtherCAT device.		
	• Fixed a namespace problem on MQTT wizard which caused a		
	compilation error.		
	• Fixed an MQTT Wizard code to accept all types of variables in a		
	Publisher message tag.		
	• Fixed an issue on Wizard which was showing duplicate option J1939_ECU for X2.		
	• Fixed some library references for PIO and X2.		
	• Removed (discontinued) the parameter "Enable I/O update per task" for		
	NX3008.		
	• Info: This version was built with CODESYS Development System 3.5.18.60.		
	Added GN-9261 Distributed IO Configurator.		
	Added BFI CANopen Configurator. Added BFI CANopen Configurator.		
	 Added BFI PROFINET Configurator. Added "Search in Documents" button feature. 		
	Added a command "Compare" in the Restore Points feature.		
	Added a new object with a Wizard to create a POU for Datalogger		
	Function Block.		
	 Added a new object with a Wizard to create a POU for MQTT Function Block. 		
	• Added commands "Reorder List and Clear Gaps", "Save Current Values		
BE	to Recipe" and "Restore Values from Recipe" in the "Declaration"	3.62	07/06/2024
	 menu. Added support for updating different versions of runtime systems for 		
	X2/BoX2 devices.		
	• Enabled command "Scan for Devices" for EtherNet/IP and		
	CANopen.		
	• Enabled the "Update device" command for CAN, EtherNET/IP, EtherCAT and PROFINET protocols.		
	• Enabled "Master Fault Action" in the EtherCAT Distributed IO		
	Configurator.		
	• Fixed a problem introduced on version 3.60 where some drivers can		

	stop working after a second download in NX3008.		
	• Fixed a problem where COM1 TYPE could be incorrect after a project		
	update changing CPU model.		
	• Fixed a problem where Modbus Symbol mappings could be corrupted		
	after copy and paste from other projects.		
	• Fixed a problem where, under rare conditions, a Modbus reconnection		
	could cause an exception.		
	Fixed general translation errors.		
	Improved readability of messages from Drives Configurator when		
	updating Drives.		
	 Moved cache build to the end of the install process to optimize the first execution of the program. 		
	II 1 - 1EDG C1 C D " DEI 1 "		
	• Updated BCS Tools 3.62 CANopen package to 4.2.0.0.		
	Disabled the 'Scan for Devices' command while logged in. Scan for Devices' command while logged in.		
	• Info: This version was built with CODESYS Development System		
	3.5.18.60.		
	• Added support to PROFINET Dual-port Controller for MRP on		
BD	NX3008.	3.61	08/02/2024
	• Info: This version was built with CODESYS Development System	2.01	00/02/2021
	3.5.18.60.		
	 Added M9386, M9289 and M9273 Distributed IO Configurator. 		
	 Added BFI Modbus TCP Configurator. 		
	 Added BootP Server. 		
	 Added Advanced PID Control function block PIDA to all Beijer 		
	devices.		
	 Added "Professional Developer Edition" support through an option 		
	selected during the install process. Functionality differs based on the		
	selected device. Requires a Codesys license for activation.		
	Added a message to confirm "Import Online Variables".		
	Added a new command "Build" under Build menu.		
	Added a new command "Release Notes" under Help menu.		
	 Added an option to enable/disable the BSD/BFI EtherCAT 		
	autogenerated code.		
	Added documentation in various libraries to enhance user guidance.		
	• Added support for ".projectarchive" files on "Open project" command.		
	• Added support for GT-2418, GT-2428, GT-2734, and GT-3901		
	modules on Distributed IO Configurator.		
	Added support for selection of other languages.		
D.C.	Added support for Static Analysis Light. Change I PIDC state to the state in the factor of the latter for the state of the state	2.60	00/02/2024
BC	• Changed PIDControl to create its objects inside folders for better	3.60	08/02/2024
	project organization. Changed the "Communication Settings" style from "Classic mode" to		
	changed the communication bettings style from chassie mode to		
	"Simple mode".Changed the default path for new projects to a dedicated folder.		
	 Changed the default profile of new projects to "Machine". 		
	 Changed the default setting to use the "Textual View" in the 		
	POUs/GVLs.		
	 Changed the default option of 'Behavior for outputs in stop' to 'Set all 		
	outputs to default' in PLC Settings, reversing the change made in		
	version 3.53.		
	 Changed the name of the license "Big Program" to "UNITED". 		
	• Changed to register as the default program to open project and		
	projectarchive extensions.		
	Fixed a problem in the project update with an NX5100.		
	Fixed a problem on Webvisu which could prevent the application to		
	start when the option "Overwrite existing trace on PLC" is unchecked.		
	Fixed a problem on CPU redundancy that could cause an exception		
	after a switchover due to a problem on the compiler, which could		
	incorrectly allocate non-related variables inside redundant areas.		
	June 1000 in the first of the first o		

	-	Fixed a problem that prevented more than one tool from connecting at		
		the same time in the controller.		
	-	Fixed a problem that was making the login process hang for several		
		seconds when Source Download option was set to "Prompt at		
		download".		
	-	Fixed a problem where a change in the description of NX and NJ		
		modules could not be applied.		
	-	Fixed a problem where NX and NJ modules could not be properly		
		updated after a Project Update.		
	-	Fixed a problem where the module description could not be saved		
		properly after a Project Update.		
	-	Fixed an invalid device log message "Demo mode for IO-Link expired		
		(license not installed)".		
		Fixed the number of analog inputs on IntegratedIO GVL for XP3xx.		
		Improved the performance of code generation, especially in projects		
		with symbolic variable mappings.		
		Improved the performance to open a project.		
		Optimized the processing of MODBUS Master (Serial) requests, which		
	-			
		can significantly improve the communication performance on networks		
	_	with several slaves.		
	•	Removed (discontinued) the CPU parameters "TCP/IP Parameters" for		
	1.	all CPUs models.		
	•	Removed (discontinued) the functionality "Diagnostic Explorer".		
	•	Removed the limit of the quantity of variables on Symbol Configurator.		
	-	Updated BFI EtherCAT library.		
	-	Updated BFI Modbus RTU library.		
	-	Updated editor of Ladder Logic Diagram (LD) with several		
		improvements.		
	•	Updated EtherNet/IP, Profinet, and EtherCAT communication drivers,		
		removing all customizations. Previous projects may require		
		adjustments.		
	-	Updated Gateway program, removing all customizations.		
	-	Updated GN-9222 Profibus DP device.		
	-	Updated the version of CodeMeter to support Soft Container licenses		
		on Workstation (Device licensing not supported yet).		
	-	Info: This version was built with CODESYS Development System		
		3.5.18.60.		
	•	Added support for NX6014 and NX6134 on PROFIBUS head NX5110		
		and NX5210.		
	•	Changed the default option of 'Behavior for outputs in stop' to 'Keep		
		Current Values' in PLC Settings, reversing the change made in BCS		
		Tools 3.40.		
D.F.	•	Fixed a problem introduced on version 3.40 where the diagnostics and	2.52	16/11/2000
BB		commands of NX4010 were not working when using half-cluster	3.53	16/11/2023
		redundancy without redundancy panel.		
		Fixed a problem where the EtherCAT Master driver could prevent the		
		local bus to start after a download, making the CPU to say in STOP.		
		Info: This version was built with CODESYS Development System		
		3.5.17.40.		
		Added support to IEC 60870-5-104 Server protocol on NX3008 CPU.		
		Fixed a problem introduced on previous version which was causing		
		error when adding I/O modules on NX5100 and NX5101 MODBUS		
		TCP Heads.		
		Changed the minimum MainTask interval to 1ms for all CPUs and		
	1	project profiles.		
BA			3.52	01/09/2023
	-	Increased the XP350 data memory from 2MB to 6MB and the program		
		memory from 3MB to 8MB. Personal "Output state in STOP" parameter (discontinued) from		
	-	Removed "Output state in STOP" parameter (discontinued) from		
	_	NX1005, NX2001, NX2020 and NX6100.		
	•	Info: This version was built with CODESYS Development System		
		3.5.17.40.		

	• Added new PIO targets:		
AZ	 Added new PIO targets: PIO GN-9373. PIO M9372. PIO M9373. Added GT-2348 and GT-228F in BCSTools. Added new field in wizard to choose different versions of runtime systems for PIO devices. Added support for updating different versions of runtime systems for PIO devices. Added Check Cestings tab on the target device. Improved design of NET interfaces configuration for better usability and uniformity. PID Auto-tune improvements (NextoPID library): The maximum range of parameter PercHystPV was increased from 1% to 5%, allowing us to auto-tune processes with noise levels higher than the previous version. The error PEAK_TOO_LOW changed to avoid unnecessary aborts of auto-tuning. The error CYCLE_TOO_FAST was eliminated to avoid unnecessary aborts of auto-tuning. The error HIGH_DEAD_TIME was eliminated to avoid unnecessary aborts of auto-tuning. PID ControlPWM block improvements (NextoPID library): this block now must be called inside a cyclic task. Freewheeling tasks would provide non-precise output. Otherwise, the Error output is set. Furthermore, a new output SampleTime informs the interval of the cyclic task. Fixed 'File transfer error' when logging in with PIO controllers. Fixed "Export Online Variables" problems with more than 10.000 variables. Fixed error in 'Recipe Management' with X2, BoX2 and PIO's devices. Removed GL-9971 PIO from BCSTools. Updated version of EtherNet/IP driver: Fixed a problem when using one BYTE + one BOOL. Fixed a problem when ethernet/IP Scanner would not update %1 in RUN when option "Update I/O while in stop" is checked. Removed the limit of 511 bytes of input or output per connection. Changed the default task of the IO Cycle of EtherNet/IP Scanner and Adapter from MainTask to an exclusive task. 	3.51	19/06/2023
AY	 Added Distributed IO Configurator. Added BSD/BFI Configurator. Added Documents feature. Added Restore Points feature. Added export tags for iX Developer feature. Added ModBus TCP Master and Modbus RTU compatibility with Nexto Xpress series and NX3008. Added support for XP350 PLC with SoftMotion. Added support to run Python scripts. Included a new command to remove the current license (returning to Lite). Updated GN-948x devices. Fixed MODBUS RTU Master request diagnostic not working with more than 128 requests. Fixed I/O mapping update for EtherCAT devices. Fixed 'Scan for devices' command doesn't work with X2 and PIO controllers. 	3.50	19/01/2023

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	 Added start and stop system events in project template. 		
	MODBUS Symbol:		
	 Fixed MODBUS Client/Server does not support ambiguous 		
	variables.		
	• Fixed bug that IntegratedIO Tags don't work with Modbus.		
	• Fixed exception in the PLC when changing the size of the array		
	mapped in MODBUS.		
	Project Update:		
	New User Interface.Correct version displaying.		
	 Removed Project Environment window. 		
	 Added LAN port name update for Ethernet and EtherCAT devices 		
	when upgrading projects created in previous versions to HMI X2.		
	 Fixed behavior that caused the project to break when updating 		
	without saving first.		
	• Fixed invalid version format error when updating X2 devices with		
	Ethercat Slaves.		
	 Reduced CPU consumption when logged in. 		
	 Fixed window behavior not closing during code generation. 		
	 Fixed wizard behavior not correctly displaying ethernet interface 		
	choices.		
	 Fixed Modbus TCP Slave configuration tabs that were not displayed. 		
	 Fixed exception when loss connection to the PLC. 		
	• Fixed compilation error when using J1939 ECU device in projects with		
	X2 modules.		
	• Fixed Gateway conflict message with other Gateways already installed.		
	• Fixed incorrect channel and description texts in Integrated I/O page.		
	• Fixed keyboard shortcuts S and N for Write and Force dialogs in		
	Portuguese language.		
	• Fixed improper add of GVLs IoQualities and Modules_Diagnostic when		
	opening project created on previous versions.Fixed issue that allows Maintask interval greater than 100 ms in projects		
	with Machine Profile.		
	 Fixed missing .DLL that causes problemas in Trace object of previous 		
	versions.		
	 Removed the 'Enable retain and persistent variables in function blocks' 		
	checkbox from CPU parameters page.		
	 Removed 'Scan for Devices' command for PROFIBUS devices. 		
	 Removed software license update window during startup. 		
	 Removed access to startup application settings. 		
	 Info: This version was built with CODESYS Development System 		
	3.5.17.40.		
	 Added new target PIO GL-9972. 		
	Added new Ethernet/IP adapter GN-9089.		
	Added new PROFINET Device GL-9087.		
	Added new PROFINET Device GN-9287.		
	 Added CSV import and export tab of I/O mappings. Fixed issue in MODBUS Symbol RTU Master that makes mappings 		
	The disse in Webber Symbol Ref & Master that makes mappings		
	stop to work after an online change. Fixed issue in MODBUS Symbol RTU Slave that makes mappings stop		
	to work after an online change.		
AV	 Fixed crash after closing the Clock Settings dialog. 	3.33	24/09/2021
11,	 Fixed application startup exception when declaring arrays of function 	0.00	2 1, 0 3 / 2 0 2 1
	blocks in retain or persistent areas.		
	 Fixed system out of memory error caused by changes in Redundancy 		
	configuration.		
	 Fixed J1939 device issue regarding stack version. 		
	• Fixed issue that made impossible to delete the copies of UserPrg POU.		
	• Fixed the startup with invalid international settings.		
	 Fixed issue in PID Control editor that causes malfunction after 		
	performing a 'clean all' command.		

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	-	Created "OPC UA" device category		
	-	Unchecked, by default, the 'Recipe management in the PLC' option in		
		the 'Recipe Manager' object.		
	-	Renamed bit bReserved05 to bHardwareFailure for Ponto series module		
		PO1213.		
	-	Updated BFI inverters devices.		
	-	Updated Ethernet/IP GN-9289 device.		
	-	Updated G-Series Modules and PIO targets.		
		Improved the project template for PIO Beijer devices.		
		Improved the project template for X2/BoX2 Beijer devices.		
		Improvements in NX5000 redundancy performance.		
		Improvements in Portuguese translation.		
		Info: This version was built with CODESYS Development System		
		3.5.15.55.		
	-	Fixed improper online change request due to IoDrvNextoRedundancy		
	1_	library.		
	•	Fixed improper online change request due to LibDatabaseManager		
AU		library.	3.32	11/06/2021
	•	Fixed the overlap of I/O addresses for PROFINET devices.		
	•	Improvements in PROFIBUS diagnostics for Ponto Series slaves.		
	-	Info: This version was built with CODESYS Development System		
		3.5.15.55.		
	•	Added new target GL-9971 (PIO).		
	•	Added OPC UA for GN-937x (PIO).		
	•	Added 'Declarations > Add all instance paths' command for		
		Persistent Vars.		
	-	Added confirmation dialog for force variables command (F7).		
	-	Added confirmation dialog for write variables command (Ctrl + F7).		
	-	Added 'Connected Clients' counter in the status bar (requires		
		compatible firmware).		
	-	Added support to System Events.		
	-	Added support to reStructuredText documentation for libraries.		
		Added Application tab on target device.		
		Added 'Scan for Devices' feature for all Beijer devices.		
	-	Added 'Disable Device' command present in the Devices tab.		
		Added the default configuration 'Auto-reconnect' on the Modbus TCP		
		Master device for GN-9372 and GL-9971.		
	١.	Fixed compatibility with projects created between versions 3.15 and		
	-	3.23.		
	-	Fixed issue in MODBUS Symbol Server that makes mappings stop to		
AT		work after an online change.	3.31	16/04/2021
AI	-	Fixed issue in MODBUS Symbol Client that makes mappings stop to	3.31	10/04/2021
	_	work after an online change.		
	•	Fixed issue that makes 'subsequent' attribute don't be applied on online		
		change.		
	•	Fixed issue that makes new objects marked in Redundancy		
		Configuration don't be applied on online change.		
	•	Fixed Ethernet/IP Scanner to proper work with I/O bit mapping from		
		existing symbolic variables.		
	•	Fixed 'Scan for Devices' command of EtherCAT Master on online		
		mode.		
	•	Fixed compile error for GVLs with attribute 'qualified_only' in		
		Redundancy Configuration.		
	•	Fixed improper download request for Nexto projects with EtherCAT		
		Master.		
	•	Fixed improper online change request for projects with CFC's POUs.		
	•	Fixed behavior of pulse variables (Special_Variables GVL) for projects		
		with "Basic" profile.		
		Fixed issue that put project with Symbol Configuration in dirty state		
	-			
		after opening.		

	•	Enabled 'Download Application Info' option for all targets.		
	•	Removed command "Tools > Import and Export Options".		
	•	Improvements in Portuguese translation.		
	•	Improvements in online help (Nexto Xpress resolution of PT100 and		
		PT1000).		
	•	Improvements in CSV import and export commands.		
	•	Improvements in installer.		
	•	Improvements in PID Control editor.		
	•	Fixed auto-declare of variables for X2/BoX2 targets.		
	•	Changed the default values of the MODBUS TCP Master settings.		
	•	Changed the default values of the Ethernet Adapter settings.		
	•	Changed the default values of EtherCAT Master settings.		
	•	Updated the GN-9386 and GL-9086 EtherCAT slaves.		
	•	Improvements in PIO available application objects.		
	•	Improved the performance to save project changing the project		
		compress level from maximum compress to minimum compress.		
	•	Fixed the issue of the Gateway not starting.		
	•	Updated CANopen inverter devices.		
	•	Changed "Set all outputs to default" as standard on the "PLC Settings"		
		tab for GL-9971 and GN-9372.		
	-	Changed the default configuration 'Enabled 1 (use bus cycle task if not		
		used in any task)' on rack devices for GN-9372 and GL-9971.		
	•	Fixed the Special Variables program calls location in redundant		
		applications.		
	•	Info: This version was built with CODESYS Development System		
	-	3.5.15.55. Added new targets X2, BoX2 and PIO;		
	-	Added command "License Manager" in "Tools" menu;		
	-	Added command "License Repository" in "Tools" menu;		
		Added command "Bookmarks" in "View" menu;		
		Added commands "Find in Project" and "Replace in Project" to		
		standard toolbar;		
		Added new default options for "SmartCoding" and "FBD, LD and IL		
		editor";		
		Increased the RAM usage limit of the programming system for x64		
		architecture;		
	•	Increased maximum number of tasks of Nexto Xpress PLCs from 5 to		
		16;		
	•	Integrated I/O points are considered by Wizard when creating a project		
		with I/O modules;		
	-	Enabled on Menu "Declarations" the submenu "Reorder List and Clear		
		Gaps".		
	-	Included new default options for "SmartCoding" and "FBD, LD and IL		
AS		editor".	3.30	07/10/2020
	•	Improved mappings limit routines;		
	•	Improved project treeview display;		
	-	Improved robustness of Login command;		
	•	Improvements in "Update Software License" Window;		
	-	Improvements in device treeview to show access modifiers;		
	•	Improvements in message texts about memory range field exceeding		
		PLC memory limit; Improvements in portuguese message texts;		
	-	Improvements in project update (modify device) for products with		
		Integrated I/O;		
		Improvements in simulation mode;		
		Improvements in Wizard usability;		
		Improvements of color schemes in Text Editor options;		
		Improvements of the intelligent input assistance:		
		 Categories: Open with 'Ctrl + Space', switch pages with arrows 		
		left/right;		
		Filters: When typing elements from DUTs or FBs, naming filter		
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	•	Increased limit of Export Online Variables from 30000 to 60000.		
	•	Performance optimization of Export Online Variables routines.		
	-	Fixed bit forcing issues for direct mapped variables.		
	•	Fixed compilation error in Simulation Mode when using some CPU and		
		rack combinations.		
	-	Fixed compilation error caused by LibDatalogger dependencies.		
	-	Info: This version was built with CODESYS Development System		
		3.5.12.02.		
	-	New limit of 16000 Ethernet/IP Device assemblies for the whole		
		project.		
		Added support to Update Device context menu for EtherCAT Slaves.		
		Increased limit of assemblies per Ethernet/IP Device to 500.		
		<u> </u>		
		Fixed an issue where a password-protected project would failed to open.		
	-	Fixed an issue where PIDControl object would not always save the		
	l_	generated code correctly.	2 22	20/02/2020
-	•	Fixed some issues with Export Online Variables.	3.22	30/03/2020
	•	Improved Project Update for update of children devices.		
	•	Improved support for multiple versions to be installed in parallel.		
	•	Improvements in texts for Portuguese and English Cultures.		
	•	Included MODBUS Symbol Client device version 1.0.0.25 for support		
		of old versions.		
	•	Info: This version was built with CODESYS Development System		
		3.5.12.02.		
	-	Added a new type of license: BIG Program Professional.		
	-	Increased limit of assemblies per Ethernet/IP Device from 50 to 60.		
	•	Fixed a crash in Ethernet/IP interface when configuring "AXL E EIP DI		
_		16 M12 6P" device.	3.21	12/02/2020
_	-	Improvements in Project Wizard.	3.21	12/02/2020
	-	Improvements in texts for Portuguese and English Cultures.		
	•	Info: This version was built with CODESYS Development System		
		3.5.12.02.		
	•	Added a new command called "Start PACTware" in "Tools" menu to		
		call an Asset Management Tool.		
	-	Fixed exception in Redundant NX3030 after project synchronization		
		process;	2.20	27/12/2010
-	-	Fixed issue causing "Online Change" when opening project with	3.20	27/12/2019
		WebVisualization object.		
	-	Info: This version was built with CODESYS Development System		
		3.5.12.02.		
	•	Added option Refactoring in the menu Tools/Options;		
	-	Added new Module Options on EtherNet/IP Module of EtherNet/IP		
		Adapter: SInt Input Module x 124, SInt Output Module x 125, Int Input		
		Module x 124, Int Output Module x 125, DInt Input Module x 124, DInt		
		Output Module x 125, Real Input Module x 124 and Real Output		
		Module x 125;		
	•	Added support for MQTT_CLIENT Function Block (provided by		
		LibMQTT), which allows the controller to publish/subscribe MQTT		
		messages;		
	-	Added support for MSSQL_CLIENT Function Block (provided by		
		LibSQLClient), which allows the controller to connect to a Microsoft		
-		SQL Server database;	3.19	20/12/2019
		Added support to CAN termination parameter on the CPU device for		
		XP300, XP315, XP325 and XP340;		
		Added network configuration rules in XP300, XP315, XP325 and		
		XP340 to prevent downloads with invalid configuration.		
		Improvements in Project Update;		
		Improvements in Project Opdate, Improvements in Project Wizard;		
		Improvements in Froject wizard, Improvements in the project file creation;		
		Improvements in NX3003 Integrated/IO Mapping;		
		Improvements in texts for Portuguese Culture;		
		Disabled Expansion Ethernet Interfaces and Redundancy network for		
		Disabled Expansion Efficient interfaces and Redundancy network for		

	Basic License;		
-	Fixed a problem was removing the Redundancy Configuration object		
	while updating the project;		
-	Fixed a problem generating code without errors with NX4000 modules		
	disconnected;		
-	Fixed problem creating unnecessary NX4000 modules;		
-	Fixed a crash in BCS Tools while updating some kind of redundant		
	projects;		
-	Fixed a problem prevented project creation when BCS Tools		
	International Settings was marked "Same as Microsoft Windows";		
-	Fixed issue that caused "Online Change" when opening project in		
	specific situation;		
-	Fixed a crash in Ethernet/IP interface when configuring "AXL E EIP DI		
	16 M12 6P" device.		
-	Info: This version was built with CODESYS Development System		
	3.5.12.02.		
•	Added support to XP340 PLC;		
-	Added option on the device IEC 60870-5-104 Server to receive a		
	command in local time;		
	Added option to the device IEC 60870-5-104 Server to send timestamps		
	in local time;		
•	Added the command Refactoring in the menu Edit;		
-	Added new options of Baudrates for Nexto Xpress Serial (COM1): 2400		
	bps and 4800 bps;		
	Added new elements for Visualization feature;		
-	Added a new object called Alarm Manager;		
	Added a new object called Trend Recording Manager;		
-	Added a new object called Interface;		
-	Added CANopen Manager for XP300 and XP315;		
-	Added J1939 Manager and ECU for XP300, XP315, XP325 and XP340.		
	Improvements in Help Files;		
-	Improvements in Import/Export CSV;		
	Improvements in International Settings;		
-	Improvements in Project Update;		
-	Improvements in Project Wizard;		
	Improvements in Project Wizard, Improvements in the project file creation;		
-	Improvements in MODBUS Server Mapping Screen;		
	Improvements in Comparing Projects with PIDControl object;		
	Improvements in texts for Portuguese Culture;	3.18	29/10/2019
- -	Improvements in Fast Input configuration consistency;	5.10	29/10/2019
-	Improvements in PLCOpenXML Import command;		
	Fixed SNTP period parameter in compiler warning to resolve "Implicit		
	conversion from unsigned Type 'USINT' to signed Type 'SINT'" error;		
	Fixed problems to configure MODBUS in COM interfaces after		
	selecting Normal Mode;		
	Fixed a problem to send the project archive to PLC;		
	Fixed a problem to send the project archive to LEC, Fixed a problem to show Security Screen in the previous versions;		
	Fixed NX9020 description;		
-	Fixed an error when saving Recipes using REAL variables;		
	Fixed all location at MainPrg of redundant applications;		
	Fixed login with online change in Redundant Project;		
-	Fixed copy/paste for CANopen Remote Device;		
-	Changed the MainTask Interval to be triggered as a warning, no longer		
	as an error for Xpress CPUs;		
	Changed field name of the serial advanced parameter to "RS-485"		
	Termination";		
	Changed download archive size from 16 MB to 26 MB for XP300,		
-	XP315 and XP325;		
	Added support in MODBUS Symbol drivers and IEC 60870-5-104		
-	Server driver to variables from Function Blocks with EXTENDS		
	directive;		
	uncerve,		

			1
	 Added consistency when try to using a NX5100 with NX9020; 		
	 Disabled clock settings in simulation mode. 		
	 Info: This version was built with CODESYS Development System 3.5.12.02. 		
	 Included XP3xx in CANopen Slave Devices library (to be used with 		
	CANopen Manager).		
	■ Improvements in Project Update;		
	 Improvements in Project opeate; Improvements in the project file creation; 		
_	 Improvements in Help Files; 	3.17	04/09/2019
	Fixes in copy and paste commands in I/O Mapping;	0117	0.70372013
	• Fixes in Special Variables GVL.		
	 Info: This version was built with CODESYS Development System 		
	3.5.12.02.		
	 Added Integrated I/O Mapping for NX3003 and XP3xx; 		
	 Enabled Protocol EtherNet/IP Scanner and Adapter for all CPUs; 		
	 Included Datalogger functionality (added LibDataLogger library); 		
	Added a new system GVL called Special Variables including Pulsating		
	Bits, Clock variables and Constants; Added new "Open Circuit Value" parameter for XP3xx Analog Inputs;		
	 Added information about modules installation in Help files; 		
	 Added a tooltip that shows up in the configuration screen when passing 		
	the mouse cursor above the modules;		
	 Improvements in NX5101 Modbus Mappings to align data according to 		
	the physical order;		
	 Improvements in Analog Output Configuration Page XP315 and 		
	XP325;	3.16	14/08/2019
-	 Fixed error message in New Project Screen when trying to add I/O 	3.10	14/06/2019
	modules;		
	Improvements in the English culture help files;		
	• Fixed I/O Simulation tool was not working for Integrated I/O in		
	NX3003, XP300, XP315 and XP325; Limited the use of reserved words ("DigitalInputs" "DigitalOutputs"		
	• Limited the use of reserved words ("DigitalInputs", "DigitalOutputs", "FastInputs" and "FastOutputs") in code generation for CPU NX3003,		
	XP300, XP315 and XP325;		
	Fixed the incompatibility with NJ6001 and NJ6005 (introduced in		
	recent versions 3.14 and 3.15) when module have firmware version		
	lower than 1.1.0.1.		
	■ Info: This version was built with CODESYS Development System		
	3.5.12.02.		
	 Updated the compiler to fix a potential occurrence of exception 		
_	when using Ethernet IP protocol.	3.15	01/07/2019
	• Info: This version was built with CODESYS Development System	3.10	22.37.2017
	3.5.12.02. Included ention "dischlad" for onen circuit value on 4.20mA inputs		
	 Included option "disabled" for open circuit value on 4-20mA inputs of NX6000 and NI6000 modules, allowing reading of signals below 		
	of NX6000 and NJ6000 modules, allowing reading of signals below 4mA (0 to 4mA).		
	Included 4-20mA scale on modules NJ6001, NJ6005 and NJ6101,		
	adding also an option to set the behavior of analog inputs on open		
	circuit condition.		
	 Added "Login" Button to Easy Connection. 		
	 Including a confirmation message before removing objects from the 		
	project.	3.14	26/06/2019
I -	 Added Right Click to open the product information web page in 	3.14	20/00/2019
	Configuration (Bus).		
	• Use Internet Explorer 11 to show the start web page (requires		
	Internet Explorer 11 to be installed).		
	Improvement to copy and paste on Modbus Symbol Server. Improved algorithm of the LibNeyt DID with anti-reset window and		
	■ Improved algorithm of the LibNextoPID with anti-reset windup and the automatic error recovery (ex: Gp < 0).		
	 Fixed the translation of the "Paste Contacts" submenu in the "FBD / 		
	LD / IL" menu.		
	== : ==		

	-	Fixed to always create a project with newest version of PLC.		
	-	Fixed possible error "Object reference not set to an instance of an		
		object" after request export to CSV.		
	•	Fixed the culture selection after open the "Clock Settings" dialog.		
	•	Fixed the "Export Online Variables" command.		
	•	Fixed error introduced on version 3.10 which may cause exception		
		after a switchover of redundant PLC.		
	•	Fixed error introduced on version 3.11 which results on exception		
		when reading/writing to MODBUS mappings with variable size		
		longer than 16 bits. Changed limits of Regins Manager Isaaning only the limit of 5 000		
	-	Changed limits of Recipe Manager, keeping only the limit of 5.000 variables per Recipe Definition.		
		Improved Help.		
		Info: This version was built with CODESYS Development System		
		3.5.12.0.		
	-	Changed the installer to solve some cases where the installation		
		process results on error when running on outdated versions of		
-		Windows 7 and 8.1.	3.13	16/04/2019
	-	Info: This version was built with CODESYS Development System		
		3.5.12.0.		
	•	Added CANopen Manager support for XP325.		
	-	Added Fast I/O support (counters, interrupts and PWM/PTO) for		
		XP300, XP315 and XP325.		
	•	Added Interruption option and Counter Interrupts to NX3003 in		
		Integrated I/O window.		
	•	Added support for Import and Export to NX3003, XP300, XP315		
	_	and XP325.		
		Updated help with CANopen. Fixed the checkbox "Enable retain and persistent variables in		
	_	Function Blocks", which was not being effective when checked		
AR		specifically for Nexto Xpress controllers.	3.12	11/03/2019
7111		The declarations editors (GVL and POUS) now opens in tabular	3.12	11/03/2017
		mode.		
	•	Added LibMachineOEM.		
	-	Automatically open the project update window for outdated		
		projects.		
	•	Fixed a problem on PLC Redundancy control algorithm, which		
		could cause a failure on the switchover process if an specific		
		communication problem between the CPUs has occured previously.		
	•	Info: This version was built with CODESYS Development System		
		3.5.12.0.		
	•	Added I/O Simulator page		
	•	Added new hot swap mode "Hot Swap Disabled Without Startup Consistency" for following devices: NY3003, NY3004, NY3005		
		Consistency" for following devices: NX3003, NX3004, NX3005, NX3010, NX3020, NX3030 and NX5100		
		Updated help		
		Added encryption to OPC UA		
		Opens the declarations editors (GVL and POUS) in tabular mode		
		Added a message box to warning about changing values when user		
		leaves a page	3.04	
40	•	Improved the error message when use a Basic license	3.05	28/12/2010
AQ	•	Added support to Nexto Xpress PLCs XP300, XP315 and XP325	3.10	28/12/2018
	•	Added support to NX3003 PLC	3.11	
	•	Added support to NX5101 MODBUS TCP Head		
	•	Added support to OPC UA configuration		
	•	Added EtherNet/IP Adapter		
	•	Added option in the project wizard to create the directory to		
	_	project's files		
	•	Added "Find in Project" command in menu "Edit" Added "Replace in Project" command in menu "Edit"		
		Added "Browse Call Tree" command in menu "Edit > Browse"		
	_	11444 Brouse can free command in mond Lait - Browse		l

	•	Added "BCS Tools Perspective" command in menu "View >		
		Choose Perspective" Added "HMI Perspective" command in menu "View > Choose		
	_	Perspective" Command in menu view > Choose		
	-	Added "Visualization" command in menu "View > HMI Views"		
	-	Added "HMI Features" command in menu "View > HMI Views"		
	-	Added "Programmings" command in menu "View > HMI Views"		
	•	Added "Datasources" command in menu "View > HMI Views"		
	-	Added "Commit Accepted Changes" command in menu "Project"		
	•	Added "Insert Execute Box" command in menu "FBD/LD/IL"		
	•	Added "Add to Recipe Definition" command in context menu of the POUs and GVLs		
	-	Added "Browse Call Tree" command in context menu of the POUs		
	-	Added "Export Library" command in context menu of the Library		
		Manager		
	-	Included Encryption tab in the Application object		
	•	The parameter "Minimum Error Before Clock Update" accepts a		
		new range from 1 up to 65519 ms Improvements in the performance of Import Safety Projects		
		command		
	•	Improvements in the Import Safety Projects command		
	-	Info: This version was built with CODESYS Development System		
		3.5.12.0.		
	-	Added Help files for EtherNet/IP in Portuguese;		
	•	Included the possibility of enabling hot swap on CPU configuration,		
		even when using Nexto Jet modules (which doesn't have support for this feature). This allows to avoid stopping the PLC when a		
		remote bus expansion rack is disconnected.		
	-	Added Import Safety Project and Delete Safety Objects		
		Imported commands in Project menu;		
AP	-	Added message if no device was found when Easy Connection is	3.03	15/01/2018
	_	executed;		
	•	Added on the About dialog the version in wich the project was created;		
		Added support to Alarm Manager and Alarm Configuration;		
	-	Added support to NX9020 rack.		
	-	Increased the limit of the EtherCAT slaves to 192.		
	-	Info: This version was built with CODESYS Development System		
		3.5.7.60.		
		Added EtherNet/IP Scanner; Added the IEC 60870-5-104 Server device;		
	-	Added Disable Breakpoint and Enable Breakpoint commands in		
		Debug menu;		
	-	Added Easy Connection command;		
	-	Added Edit IO mappings command in context menu of Device		
	_	object;		
	•	Added new commands (Reorder list and clean gaps, Save current values to recipe and Restore values from recipe) in Persistent		
		Variables object;		
4.0	-	Added NJ1005, NJ6001, NJ6011, NJ6101 and NX5100 modules	2.02	00/06/2017
AO		support;	3.02	09/06/2017
	•	Added options to Operating Mode command in Online menu;		
	•	Added Toggle Breakpoint command to POU when CPU is		
		connected; Added Placeholders command in context menu of Library Manager		
	Ī -	object;		
		Added Print Preview command in File menu;		
	•	Added quality variables support for IO modules;		
	•	Added quality variables support for MODBUS Symbol Client		
	_	driver;		
	•	Added Wink command in Source upload and Source download		

- Changed tab design for all screens;
- Changed the Synchronism screen in CPU configuration. The new screen allows time zone configuration with SNTP disable;

- Created a new design option to Communication Settings screen;
- Enable or disable redundant objects causes online change download;
- Fixed a problem in compiler using Symbol Configuration and variables with character "";
- Fixed an issue in PersistenVars that initialized variables when a variable type was changed during an online changes process;
- Fixed problems with source download options;
- Implemented a change to decrease the project archive size when removing objects;
- Implemented a change to show right quantity of recent projects in the start page;
- Implemented a consistency to deny read, write and force invalid indexes of arrays;
- Implemented a process to close all windows when a logoff is done;
- Implemented Export/Import process for Dynamic IP address parameter in NET1;
- Implemented Export/Import to User and Groups of Project Settings command;
- Implemented new options tabs (Device description download, Library download and Proxy Settings) in Options command in Tools menu;
- Implemented new tab Target memory settings in Application object;
- Implemented new tab View in tab option CFC Editor in Options command in Tools menu;
- Implemented new warnings in tab Compile warnings of Project Settings command;
- Implemented Permission for Folders in the Permissions Window;
- Implemented setting 'keep running on CPU stop' to MODBUS Slave and Server
- Implemented the consistency of maximum number of PROFIBUS slave bytes;
- Improvements in Auto Declare command;
- Improvements in Breakpoints command;
- Improvements in Cross Reference List command;
- Improvements in EtherCAT Master Sync Window;
- Improvements in GVL and Persistent Vars objects;
- Improvements in Help files;
- Improvements in memory usage during project update;
- Improvements in NX5001 tab DP-Parameters;
- Improvements in online changes process in certain cases
- Improvements in Portuguese Culture Screens;
- Improvements in POU for implicit checks object;
- Improvements in Project Information... command;
- Improvements in Recipe Manager;
- Improvements in Recipe object in Tree view;
- Improvements in Symbol Configuration object;
- Improvements in tab option Device Editor in Options command in Tools menu;
- Improvements in tab option SmartCoding in Options command in Tools menu;
- Improvements in Trace object;
- Improvements in Watch command;
- Included Internal Points configurations in Nexto CPUs;
- Some difference project structure for new projects:
- Changed Wizard Page to choose the language of UserPrg and

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	 StartPrg; New projects are created with four folders called SystemGVLs, SytemPOUs, UserGVLs and UserPOUs; A new POU called StartPrg is created for every new project; A new POU called UserPrg is created for non-redundant projects; Three new GVLs called IOQualities, Module_Diagnostics and System_Diagnostics are created; The Diagnostics GVL is not created for new projects; Removed a wrong icon from Add Gateway Window. Info: This version was built with CODESYS Development System 3.5.7.60. Enabled Redundant PROFIBUS network for NX3020 in Wizard page; Improvements in Padundant State Mechine using only Ethernet 		
AN	 Improvements in Redundant State Machine using only Ethernet I/Os; Improvements to decrease the size of BCS Tools projects. Info: This version was built with CODESYS Development System 3.5.3.141. 	2.08	26/12/2016
AM	 Added NX3005 CPU support; Added the Visualization feature to the tool. This feature enable users to create screens loaded and stored in the CPUs memory with the logic application. Using this feature is possible access created screens trough the web browsers. This feature is enable only for NX3005 CPU: Added Visualization Manager object used to set general configuration of Visualization feature; Added WebVisualization object used to set the specific configuration related with web access in the created screens; Added Visualization objects that is used to create screens to access application information; Added Image Pool object to the application. This object is used to create a list of images that can be used in the Visualization; Added Network Variable List (NVL) feature to tool. The feature enable exchanging variables among controllers trough the CPU network interfaces. Added a new command called Clock Settings that is an easy way to get and set date and time in the CPUs; Added the option of Dynamic IP Address to the CPU Ethernet interface (DHCP Protocol); Added the option Edit Page Size in the CFC Menu; Fixed a problem using Export to CSV feature and the SOE enabled; Fixed a problem using Export to CSV feature and the SOE enabled; Fixed a problem related with Symbols in Treeview with Redundant PROIFBUS Networks; Improvements performance in Import from CSV command. Fixed an eventual issue with redundant system startup when using exclusively PROFIBUS slaves from Nexto Series; Changed verification rule of hot-swap mode parameter for Nexto Jet Solution to allow the system to startup even with absent modules. Info: This version was built with CODESYS Development System 3.5.3.141. 	2.07	31/10/2016
AL	 Changed the product label to comply with the new revision of CE directive. Info: This version was built with CODESYS Development System 3.5.3.141. 	2.05	22/06/2016
AK	 Added a new type of license: BIG PROGRAM; Included a new option that allows to use Retain and Persistent variables on Function Blocks; Changed the verification rule of NX3004 maximum current to allow the operation with up to 20W in some specific conditions; 	2.05	25/01/2016

	1	A 11 1 C. NIVOO10 1 NIV # 110		
		Added support for NX9010 rack with NX5110;		
		Enhancements on Export Online Variables command; Fixed import/export for projects with PO7078 module;		
		Compilation performance optimization in projects with MODBUS		
		Client and MODBUS Master;		
		Performance optimization on Open Project, Generate Code and		
		Login commands.		
		Info: This version was built with CODESYS Development System		
		3.5.3.141.		
		Added support for Nexto Jet solution, with the inclusion of the		
		following modules: NJ1001, NJ2001, NJ6000, NJ6010, NJ6020,		
		NJ6100.		
	•	Added a new PROFIBUS slave device called NX5110_NJ which		
		allows to use Nexto Jet solution modules with the Nexto Series		
		PROFIBUS DP head.		
	•	Added Export and Import Online Variables command in the Online		
		Menu.		
	-	Added support for flexibility of Persistent and Retain memory area		
		sizes.		
	_	Implemented support to use old Nexto modules with Machine Profile.		
		Enhancements on PIDControl when using it on redundant projects.		
		Changed name and description of parameter Allocate Diagnostic		
		Area According to the Device Description in NX5001		
AJ		configuration.	2.03	15/10/2015
		Consistency of EtherCAT parameters Sync0 and Sync1.		
	-	Consistency of EtherCAT slave parameter Cycle Time.		
	-	Improvements in message texts about synchronization options for		
		EtherCAT configuration.		
	-	Improvements in help files about EtherCAT.		
	•	Removed the diagnostic HotStartCounter from the diagnostic		
		structure of NX3004 CPU.		
	•	Fixed errors using NX9010 in simulation mode.		
	-	Changed the text of hot swap options in CPU General		
		Configuration tab. Improvements in Portuguese Help files.		
	_	Improvements in rortuguese rieip mes. Improvements in message texts about Modbus direct mapping		
		limits.		
		Info: This version was built with CODESYS Development System		
		3.5.3.141.		
	•	New Features:		
	-	Added Scan Devices feature for Nexto Series PROFIBUS Master		
		NX5001;		
	•	Added NX9010 Rack support.		
	•	Enhancements:		
	•	Improvements in EtherCAT Master Device;		
	•	Improvements in OPC Configuration Screen including new		
		verifications for ARRAY type and a new option to use CPU		
	_	embedded gateway;		
AI		Improvements in OPC Server service; Improvements in Symbol Configuration object to remove	2.02	04/08/2015
Ai	_	automatically deleted variables;	2.02	04/06/2013
		Improvements in the treatment of GSD files from third part		
		suppliers into Device Repository;		
	-	Improvements in Force Command for bit type;		
	-	Improvements in Edit commands (Add/Copy/Paste/Cut/Delete) for		
		PROFIBUS Slave Devices;		
	-	Improvement in Wizard Page to treat current consumption before		
		creating a project;		
	-	Improvements in Help files.		
	•	Info: This version was built with CODESYS Development System		

	2.5	3.141.		
		v Features:		
		erCAT Master:		
		led EtherCAT Master Device to be inserted as a communication		
	driv			
		bled the option Scan Devices to scan automatically the devices		
		nected below the EtherCAT Master.		
		led a new Project Profile called Machine Profile execute fast		
		lications.		
		led Nexto Series PROFIBUS DP slaves NX5110 and NX5210:		
		ded Nexto Series PROFIBUS slaves into the Configuration and assumption;		
		led Nexto Series PROFIBUS slaves into the Bill of Materials;		
		led limits verifications for Nexto Series PROFIBUS Slaves.		
		led NX3004 CPU support.		
		led NX9000 Rack support.		
AH		led SNTP support in the NX3010 CPU.	2.01	14/05/2015
7 111		led a library to read and write PROFIBUS DPV1 commands	2.01	14/03/2013
		ng NX5001 interface.		
		led a new configuration in the CPU screen called Enable I/O		
	-	date per Task used to Update I/O in task different than in Task.		
		led Export and Import from PLCOpen XML in the Project		
	Me			
		led the option called Redundancy without panel to use a		
		undant system without the Control Panel.		
		omatically vital failure treatment for Ethernet interfaces and		
	MC	DBUS Client devices in Half Cluster redundancy Projects.		
		ancements:		
		provements in Portuguese Culture Screens;		
		provements in Portuguese Help files.		
		e: This version was built with CODESYS Development System 3.141.		
		v Features:		
		C Server;		
	■ Add	led OPC Server into the installer;		
	Add	led OPC Configuration menu to configure devices to connect		
	*** 16.2	n OPC Server;		
		led Symbol Configuration object to define variables available		
		OPC Server access;		
		blication CRC; led CPU Information menu to Access Project and CPU CRC;		
		led a new Diagnostics for Nexto CPUs to access CRC.		
		ort to and Import from CSV Files:		
		led support to Export and Import Nexto CPUs parameters;		
		led support to Export and Import Nexto Series Modules		
AG	con	figuration;	2.00	30/09/2014
710		led support to Export and Import Ponto Series PROFIBUS	2.00	2010712017
		ves;		
		led support to Export and Import GVLs into CSV files;		
		led support to Export and Import POUs in ST language; out through selection of multiple CSV files.		
		ipe Manager:		
		led Recipe Manager object;		
		led Recipe Definition object;		
		led LibRecipeHandler to manage Recipes into the application;		
	Add	led a new programming language called CFC Page-Oriented		
		guage and its editor;		
		led Sync and Freeze commands support for NX5001.		
		led two new hotswap modes for Nexto Series CPUs:		
	Disa	abled;		

Enabled, with startup consistency. Windows 8.1 support. Enhancements: Ponto Series PROFIBUS slaves: Added Ponto Series PROFIBUS slaves: Added Ponto Series PROFIBUS slaves: Added a new screen to configure Ponto Series bases; Added a new screen to configure Ponto Series bases; Added one Series PROFIBUS slaves into the Bill of Materials; Added Option Series PROFIBUS slaves into the Bill of Materials; Added option Series PROFIBUS slaves into the Bill of Materials; Added option to select redundancy; Added option to select redundancy project with OPC communication: Added Project Profile descriptions: Added Project Profile descriptions: Added Project Profile descriptions: Help files improvements and optimizations: Optimization in the Nexto Series graphical configuration; Added Project Profile descriptions: Added Project Profile descriptions: Added Project Profile descriptions: Added Project Profile Prof					
Benhancements: Ponto Series PROFIBUS slaves: Added Ponto Series PROFIBUS slaves into the Configuration and Consumption; Added a new screen to configure Ponto Series bases; Added a new screen to configure Ponto Series expansion; Added Ponto Series PROFIBUS slaves into the Bill of Materials; Added Imits verifications for Ponto Series expansion; Added point os Series PROFIBUS slaves into the Bill of Materials; Added option to select bus expansion with redundancy; Added option to select bus expansion with redundancy; Added apage to create IO modules during the wizard configuration; Added Project Profile descriptions; Help files improvements and optimizations; Optimization in the Nexto Series graphical configuration; Added Project Profile descriptions; Help files improvements and optimizations; Optimization in the Nexto Series graphical configuration; Added Project Profile descriptions; Blocked Project Update from new projects to older versions; Changed contact support link URL: Improvements in PIDControl Editor to edit main variables and retain them values; Blocked Project Update from new projects to older versions; Changed to eonistencies for 24 characters in device identifiers; Added a verification to prevent the use of "AT" in redundant objects; Changed the behavior to create and download project archive with online change; Changed the behavior to create and download in promptice on download and online changes; Changed the Option Source Download to "Prompt at program Download and online changes" by default; Improvements in the usability of FBD/IL/LD editor; Improvements in the usability of FBD/IL/LD editor; Improvements in the usability of FBD/IL/LD editor; Improvements in the usability of FBO/IL/LD editor; Improvements in the usability of FBO/IL/LD editor; Improvements in the usability of FBO/IL/LD editor; Improvements: Standardization in comments of modules parameters and in texts used in Modbus mappings; Improvements in the usability of FBO/IL/LD editor; Implemented Edit Object (offline) command; Disabled th		•	Enabled, with startup consistency.		
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	 Changed the installer based in Microsoft InstallShield to installer based in Inno Setup. This change reduces the installation time; Added MODBUS devices with mappings of symbolic variables; Added Import/Export command to CSV files. This command imports or exports the project configurations; Added Import/Export support to the MODBUS Symbolic drivers; Added a new analog I/O module: NX6010 – 8 Ch. Thermocouple Input Module; Added LibLogs with new function block to manage CSV files into the memory card. Enhancements: Improvement to receive MODBUS serial frames before 3.5 characters silence. Info: This version was built with CODESYS Development System 3.4.4.25. Changed the MODBUS mappings limit from 128 to 512. 		
AD	 Changed the limit of characters of TAGs from 24 to 255. Changed the limit of characters of Descriptions from 48 to 255. Changed the limit of characters of Devices Names from 24 to 255. Updated compiler version to 3.4.4.27. Updated Libraries. Info: This version was built with CODESYS Development System 3.4.4.25. 	1.33 1.34 1.35	28/10/2013
AC	 Updated Libraries. 	1.32	01/07/2013
AB	 Enhancements on performance. Corrections in memory overlap verification for Diagnostics Variables. Enhancements on Project Update. Enhancements on Simulation Mode. Added External Events configuration. Correction in memory allocation of retain variables for online changes. 	1.31	12/06/2013
AA	 Initial revision. 	1.30	12/04/2013