

B&R Revision Information

Version 3.0.90.18 Automation Software

06-Sep-2011

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The current revision information can be downloaded from the B&R Homepage download area (<http://www.br-automation.com/download>).

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Requests and problems by product and version

1A4000.02 (2.0 Automation Runtime SG4)

ID	valuation	solved since	known since	Description
265455	Problem	V3.00.90.14	V3.00.90.12	POWERLINK: Default value for asynchronous timeout changed from 25 s to 50 s
258187	Problem	V3.00.90.11	ARSG4_3.07.2_B03.07	Firmware Update for SafeMC did not complete.
400007523	Problem	-	V3.0.71.16 SP01	AsIMA ignores time zone information
400007523	Problem	-	V3.0.71.16 SP01	AsIMA ignores time zone information
400066089	Problem	-	V2.7.0.4102 [V2.94]	30479, 27306 when starting 7CP570.60-1 with four AF modules
400066089	Problem	-	V2.7.0.4102 [V2.94]	30479, 27306 when starting 7CP570.60-1 with four AF modules
400055446	Problem	-	V2.7.0.0015 SP08	Address error occurs when a breakpoint is reached on a command that is 1 byte long
400055446	Problem	-	V2.7.0.0015 SP08	Address error occurs when a breakpoint is reached on a command that is 1 byte long
400055446	Problem	-	V2.7.0.0015 SP08	Address error occurs when a breakpoint is reached on a command that is 1 byte long
400055836	New function	-	-	PP45 could fail at low temperatures
400067831	Problem	-	-	Memory management problem with task overload corrected with library version V2.80.1 and up
400037284	New function	-	-	Improved response time for PP065 touch screen
400059335	Problem	-	-	Correction of the error in which very short and light pressure on the touch screen can cause the position to be evaluated incorrectly
268630	Problem	-	ARSG4_4.00.17_Q04.00	ARwin on Windows 7 doesn't work in Shared mode (when using more than 2GB DRAM)
268405	Problem	-	ARSG4_4.00.16_P04.00	Problems with ARwin in Windows 7 when firewall is on
238445	Problem	-	ARSG4_3.08.1_A03.08	StaleData on local X2X Link interface when X2X cycle > system cycle
400069705	Problem	-	ARSG4_3.07.5_E03.07	Backup of remanent data to SRAM doesn't complete if ARwin is operated in Shared mode.
400069705	Problem	-	ARSG4_3.07.5_E03.07	Backup of remanent data to SRAM doesn't complete if ARwin is operated in Shared mode.
400065938	Problem	-	ARSG4_3.07.4_D03.07	c command line argument in the ARwin configuration disables not only the COM2 interface but also COM1.
400066308	Problem	-	ARSG4_3.06.22_V03.06	Error copying CAN CMS objects
400066308	Problem	-	ARSG4_3.06.22_V03.06	Error copying CAN CMS objects
400055674	Problem	-	ARSG4_3.06.22_V03.06	Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem
400046190 400041900	Problem	-	ARSG4_3.06.22_V03.06	Upgrade to AR Version E3.01 can cause the CPU to continuously reboot
400072106	Problem	-	ARSG4_3.06.22_V03.06	Accessing the "Safety" and "Fieldbus" logbooks via library (with an index) causes a PageFault. The problem can be avoided by specifying the names "\$safety" or "\$fieldbus."
400072106	Problem	-	ARSG4_3.06.22_V03.06	Accessing the "Safety" and "Fieldbus" logbooks via library (with an index) causes a PageFault. The problem can be avoided by specifying the names "\$safety" or "\$fieldbus."
400072106	Problem	-	ARSG4_3.06.22_V03.06	Accessing the "Safety" and "Fieldbus" logbooks via library (with an index) causes a PageFault. The problem can be avoided by specifying the names "\$safety" or "\$fieldbus."
400054833	Problem	-	ARSG4_3.06.22_V03.06	PP065: Warning "26061 Cannot configure minimum reduced cycle time due to old firmware" because of different drivers or POWERLINK firmware
400048657	Problem	-	ARSG4_3.06.22_V03.06	PP045 with IF24 (L2DP) returns incorrect data when odd addresses are read in the Profibus image
400054833	Problem	-	ARSG4_3.06.22_V03.06	PP065: Warning "26061 Cannot configure minimum reduced cycle time due to old firmware" because of different drivers or POWERLINK firmware
400054111	Problem	-	ARSG4_3.01.9_I03.01	Debugger terminates online connection
400054111	Problem	-	ARSG4_3.01.9_I03.01	Debugger terminates online connection
400054111	Problem	-	ARSG4_3.01.9_I03.01	Debugger terminates online connection
400039843	Problem	-	ARSG4_3.01.1_A03.01	Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC
400039843	Problem	-	ARSG4_3.01.1_A03.01	Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC
400039843	Problem	-	ARSG4_3.01.1_A03.01	Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC

400035792 400020837	Problem	-	ARSG4_3.00.22_V03.00	Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC
400035792 400020837	Problem	-	ARSG4_3.00.22_V03.00	Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC
400035792 400020837	Problem	-	ARSG4_3.00.22_V03.00	Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC
400005281	Problem	-	ARSG4_2.94.22_V02.94	INA online connection to X20CS1020 stops working when the modem configuration is also activated
400048512	New function	ARSG4_4.00.9_I04.00	V3.00.80.31 SP01	It is not possible to use C variables larger than 16 MB.
251322	Problem	ARSG4_4.00.9_I04.00	ARSG4_3.06.22_V03.06	POWERLINK: ACOPOSmulti with SafeMC as chained station
400055971	Problem	ARSG4_4.00.9_I04.00	ARSG4_3.06.22_V03.06	ARemb terminates INA connection if an attempt is made to access a non-existing partition via FTP
400054674	Problem	ARSG4_4.00.9_I04.00	ARSG4_3.00.22_V03.00	Module transfer to target not saved if there is not sufficient memory in the back-up partition.
400060887	New function	ARSG4_4.00.8_H04.00	V3.00.81.22 SP01	CANopen slave not started by the master if it sends only an emergency telegram with data =0 instead of a Boot-Up message
400055699	Problem	ARSG4_4.00.8_H04.00	V3.00.81.22 SP01	VC Windows Terminal: Changes to Enum variables are not updated on the terminal, but changes from the terminal are updated on the CPU
400053004 400052525	Problem	ARSG4_4.00.8_H04.00	V3.00.81.18	Trigger condition not working
400039937	Problem	ARSG4_4.00.8_H04.00	V3.00.80.25	CANIO slaves are not always found after startup
400050977	Problem	ARSG4_4.00.8_H04.00	-	AsIMA doesn't adjust for daylight savings time when reading the time from a peer station
400055614	Problem	ARSG4_4.00.8_H04.00	PVI3.00.00.3119	"VT_DATE local" wrong for DCOM routines - in leap years the date is offset by one day
400060899	Problem	ARSG4_4.00.8_H04.00	ARSG4_3.07.4_D03.07	Due to an error in the task queue of the Modbus driver, packages that are received may no longer be allocated to the sent queries, thereby causing a connection timeout.
400055610	Problem	ARSG4_4.00.8_H04.00	ARSG4_3.07.1_A03.07	DT and DATE_AND_TIME variables are converted incorrectly by VT_DATE when they are written.
400057308	Problem	ARSG4_4.00.8_H04.00	ARSG4_3.01.9_I03.01	Target crashes with page fault in the web server module when an ASP write command is run from a website with more than 9 variables.
400057456	Problem	ARSG4_4.00.8_H04.00	ARSG4_3.01.7_G03.01	Update to ARwin configurator
400053444	Problem	ARSG4_4.00.8_H04.00	ARSG4_3.00.22_V03.00	Variable values sometimes displayed incorrectly on ASP pages
400002467 400058853 400058855	New function	ARSG4_4.00.7_G04.00	V3.00.81.23 SP02	Task class stack can only be configured up to a size of 1MB.
400058109	Problem	ARSG4_4.00.7_G04.00	V3.00.81.22 SP01	It can take very long to install I/O mappings, which can result in the connection being terminated due to a time violation.
400051942	Problem	ARSG4_4.00.7_G04.00	-	ModbusTCP doesn't start all slaves
400060652	Problem	ARSG4_4.00.7_G04.00	ARSG4_3.07.3_C03.07	CANrtab() returns invalid data
400057809	Problem	ARSG4_4.00.7_G04.00	ARSG4_3.01.8_H03.01	Using logger functions in fast task classes can lead to cycle time violations
400056892	Problem	ARSG4_4.00.6_F04.00	V3.00.81.22 SP01	If the requested bur_heap_size (C++) is too large, the installation error ERR_LOADER_USERHEAP (5150) is now triggered
400007099 400044198	Problem	ARSG4_4.00.6_F04.00	V2.7.0.0010 SP03	AsMemPartFree returned -8 byte free memory size
400011003	Problem	ARSG4_4.00.6_F04.00	ARSG4_4.00.3_C04.00	TIM_usec returns incorrect time when the system tick isn't a whole number multiple or factor of 10 milliseconds
245157	New function	ARSG4_4.00.6_F04.00	ARSG4_3.08.3_C03.08	The value specified for AsMemPartCreate now corresponds to the largest allocated block
400056515	Problem	ARSG4_4.00.6_F04.00	ARSG4_3.07.2_B03.07	Watchdog after CanWrite() on IF060 with IF621
400057340	Problem	ARSG4_4.00.6_F04.00	ARSG4_3.07.2_B03.07	POWERLINK reports error 27306 when starting a visualization application
400051015	Problem	ARSG4_4.00.6_F04.00	ARSG4_3.07.1_A03.07	Support for barcode scanner Cino F788-G
400054123 400055855	Problem	ARSG4_4.00.6_F04.00	ARSG4_3.06.22_V03.06	When downloading in one cycle mode, an interrupt block can cause an I/O cycle time violation (27306)
400059082	Problem	ARSG4_4.00.6_F04.00	ARSG4_3.06.22_V03.06	Creating a new logger module using AsArLogCreate() deletes any existing tasks with the same name
400047724	Problem	ARSG4_4.00.6_F04.00	ARSG4_3.01.9_I03.01	When multiple Ethernet interfaces are used, interference in the routing table causes Error 29004 when the function block CfgSetDefaultGateway() is called
400053732	Problem	ARSG4_4.00.5_E04.00	V3.00.81.18	Priority of Profibus master can be configured
400055674	Problem	ARSG4_4.00.5_E04.00	ARSG4_3.06.22_V03.06	Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem
400056272	Problem	ARSG4_4.00.5_E04.00	ARSG4_3.06.22_V03.06	Priority of CANopen master can be configured
400046190 400041900	Problem	ARSG4_4.00.4_D04.00	ARSG4_3.06.22_V03.06	Upgrade to AR Version E3.01 can cause the CPU to continuously reboot
400054457	Problem	ARSG4_4.00.4_D04.00	ARSG4_3.06.22_V03.06	CANopenSDOWriteData() terminates after downloading several hundred bytes due to a full CAN buffer
400054911	Problem	ARSG4_4.00.4_D04.00	ARSG4_3.06.22_V03.06	Function blocks from AsXML library ignore enable input
400055214	Problem	ARSG4_4.00.4_D04.00	ARSG4_3.01.8_H03.01	Using CANopenNMT() can prevent a task download from completing
400054360	Problem	ARSG4_4.00.3_C04.00	V3.00.81.20 SP01	With the function block CanOpenGetState(), when enable=FALSE the function block freezes during execution
400048657	Problem	ARSG4_4.00.3_C04.00	ARSG4_3.06.22_V03.06	PP045 with IF24 (L2DP) returns incorrect data when odd addresses are read in the Profibus image
400055463	Problem	ARSG4_4.00.3_C04.00	ARSG4_3.01.9_I03.01	CANopenSDOWrite8() only sends every second SDO

253632	New function	ARSG4_4.00.16_P04.00	nicht relevant	Detection of POWERLINK hardware using AS-IO-Diag
400068763	Problem	ARSG4_4.00.16_P04.00	ARSG4_3.08.11_K03.08	Naming of POWERLINK devices from other vendors in AsIODiag
400060016	Problem	ARSG4_4.00.16_P04.00	ARSG4_3.07.2_B03.07	Error 26051 in logbook when X20CS2770 after X20BCx083 on APC or Power Panel
400065938	Problem	ARSG4_4.00.15_O04.00	ARSG4_3.07.4_D03.07	c command line argument in the ARwin configuration disables not only the COM2 interface but also COM1.
400069009	Problem	ARSG4_4.00.15_O04.00	ARSG4_3.07.4_D03.07	VC application blocks netX data communication
400069276	Problem	ARSG4_4.00.14_N04.00	ARSG4_3.08.10_J03.08	Using a handle that has already been closed can cause a page fault (read, write, or close on a handle)
400065540	Problem	ARSG4_4.00.12_L04.00	V3.00.81.24 SP0x	ARwin shows incorrect amount of available DRAM memory in SDM
400057456	Problem	ARSG4_4.00.12_L04.00	ARSG4_3.01.7_G03.01	Update to ARwin configurator
400048318	New function	ARSG4_4.00.11_K04.00	V3.00.80.31 SP01	New function blocks FileWriteEx() and FileTruncate()
400052213	Problem	ARSG4_4.00.11_K04.00	V3.00.80.31 SP01	ENUM data types in ASP functions
400035047 400036404	Problem	ARSG4_4.00.11_K04.00	ARSG4_3.08.25_Y03.08	If a breakpoint is reached in the INIT SP, then it is no longer possible to leave the breakpoint. Execute (F5), Step Over (F10) or Step Into (F11) do not have an affect.
258192	Problem	ARSG4_4.00.11_K04.00	ARSG4_3.07.2_B03.07	Firmware Update for SafeMC did not complete.
400066313	Problem	ARSG4_4.00.11_K04.00	ARSG4_3.06.22_V03.06	If, for example, the X2X timer is used as the system clock, then remanent variables aren't saved when there is a power failure
400030702	New function	ARSG4_4.00.11_K04.00	ARSG4_2.95.22_V02.95	New function block L2DPGetNode() for reading Profibus station number
400030702	New function	ARSG4_4.00.11_K04.00	ARSG4_2.95.22_V02.95	New function block L2DPGetNode() for reading Profibus station number
400038864	New function	ARSG4_4.00.10_J04.00	V3.00.80.25	Function blocks now return the error 20709 (fiERR_FILE_DEVICE) if a device is not present
400064601	Problem	ARSG4_4.00.10_J04.00	ARSG4_3.08.8_H03.08	Insufficient logbook entry when ArConfig has double channels/QLinks.
400062576	Problem	ARSG4_4.00.10_J04.00	ARSG4_3.07.4_D03.07	Error handling SYSCONF module in SYSROM
400062449	Problem	ARSG4_4.00.10_J04.00	ARSG4_3.07.4_D03.07	When using multiple netX CANopen master modules, a different handle is used for each module, which speeds up asynchronous function block processing.
400064575	Problem	ARSG4_4.00.10_J04.00	ARSG4_3.07.3_C03.07	Attempt to download AsCANopen library to ARsim rejected with error 9650 "Library function not available"
400062877	Problem	ARSG4_4.00.10_J04.00	ARSG4_3.06.22_V03.06	Remanent/permanent variables not saved when exiting ARsim
400063458	New function	ARSG4_4.00.10_J04.00	ARSG4_3.06.22_V03.06	DevLink() blocks other file actions for a relatively long time
400038864	New function	ARSG4_3.08.9_I03.08	V3.00.80.25	Function blocks now return the error 20709 (fiERR_FILE_DEVICE) if a device is not present
400013287	New function	ARSG4_3.08.9_I03.08	V3.0.71.20 SP02	Use the Diagnostics System Manager to list modules' diagnostics data points
400062877	Problem	ARSG4_3.08.9_I03.08	ARSG4_3.06.22_V03.06	Remanent/permanent variables not saved when exiting ARsim
400054674	Problem	ARSG4_3.08.9_I03.08	ARSG4_3.00.22_V03.00	Module transfer to target not saved if there is not sufficient memory in the back-up partition.
400028352	Problem	ARSG4_3.08.9_I03.08	ARSG4_3.00.15_O03.00	If global variables mapped to I/O points receive new addresses due to a change to the project, it is possible that the variable values are no longer transferred to the I/O points.
400028352 400065604	Problem	ARSG4_3.08.9_I03.08	ARSG4_3.00.15_O03.00	If global variables mapped to I/O points receive new addresses due to a change to the project, it is possible that the variable values are no longer transferred to the I/O points.
400060157	Problem	ARSG4_3.08.9_I03.08	ARSG4_2.96.12_L02.96	The status BUSY can remain set for up to 120 minutes if the connection is lost when using the function block DirInfo() over a network
400060887	Problem	ARSG4_3.08.8_H03.08	V3.00.81.22 SP01	CANopen slave not started by the master if it sends only an emergency telegram with data =0 instead of a Boot-Up message
400053004 400052525	Problem	ARSG4_3.08.8_H03.08	V3.00.81.18	Trigger condition not working
400039937	Problem	ARSG4_3.08.8_H03.08	V3.00.80.25	CANIO slaves are not always found after startup
400055836	New function	ARSG4_3.08.8_H03.08	-	PP45 could fail at low temperatures
400050977	Problem	ARSG4_3.08.8_H03.08	-	AsIMA doesn't adjust for daylight savings time when reading the time from a peer station
400055614	Problem	ARSG4_3.08.8_H03.08	PVI3.00.00.3119	"VT_DATE local" wrong for DCOM routines - in leap years the date is offset by one day
400058774	Problem	ARSG4_3.08.8_H03.08	ARSG4_3.08.4_D03.08	Incorrect version of rtosdrv.dll
400060899	Problem	ARSG4_3.08.8_H03.08	ARSG4_3.07.4_D03.07	Due to an error in the task queue of the Modbus driver, packages that are received may no longer be allocated to the sent queries, thereby causing a connection timeout.
400055610	Problem	ARSG4_3.08.8_H03.08	ARSG4_3.07.1_A03.07	DT and DATE_AND_TIME variables are converted incorrectly by VT_DATE when they are written.
400053444	Problem	ARSG4_3.08.8_H03.08	ARSG4_3.00.22_V03.00	Variable values sometimes displayed incorrectly on ASP pages
400053444	Problem	ARSG4_3.08.8_H03.08	ARSG4_3.00.22_V03.00	Variable values sometimes displayed incorrectly on ASP pages
400057308	Problem	ARSG4_3.08.8_H03.08	-	Target crashes with page fault in the web server module when an ASP write command is run from a website with more than 9 variables.
400002467 400058853 400058855	New function	ARSG4_3.08.7_G03.08	V3.00.81.23 SP02	Task class stack can only be configured up to a size of 1MB.
400058109	Problem	ARSG4_3.08.7_G03.08	V3.00.81.22 SP01	It can take very long to install I/O mappings, which can result in the connection being terminated due to a time violation.
400058774	Problem	ARSG4_3.08.7_G03.08	ARSG4_3.08.4_D03.08	Incorrect version of rtosdrv.dll
400060652	Problem	ARSG4_3.08.7_G03.08	ARSG4_3.07.3_C03.07	CANrtab() returns invalid data
400056892	Problem	ARSG4_3.08.6_F03.08	V3.00.81.22 SP01	If the requested bur_heap_size (C++) is too large, the installation error ERR_LOADER_USERHEAP (5150) is now triggered
- 400047408 400049937	Problem	ARSG4_3.08.6_F03.08	V3.00.81.12	Error 29009 occurs when reading the default gateway
400007099 400044198	Problem	ARSG4_3.08.6_F03.08	V2.7.0.0010 SP03	AsMemPartFree returned -8 byte free memory size

400051942	Problem	ARSG4_3.08.6_F03.08	-	ModbusTCP doesn't start all slaves
400058774	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.08.4_D03.08	Incorrect version of rtosdrv.dll
400011003	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.08.4_D03.08	TIM_usec returns incorrect time when the system tick isn't a whole number multiple or factor of 10 milliseconds
400056515	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.07.2_B03.07	Watchdog after CanWrite() on IF060 with IF621
400057340	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.07.2_B03.07	POWERLINK reports error 27306 when starting a visualization application
400057746	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.06.4_D03.06	Calling the function block CfgSetEthConfigMode() with the same mode that is already in use triggers Error 29003
400054123 400055855	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.06.22_V03.06	When downloading in one cycle mode, an interrupt block can cause an I/O cycle time violation (27306)
400046190 400041900	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.06.22_V03.06	Upgrade to AR Version E3.01 can cause the CPU to continuously reboot
400059082	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.06.22_V03.06	Creating a new logger module using AsArLogCreate() deletes any existing tasks with the same name
400047724	Problem	ARSG4_3.08.6_F03.08	ARSG4_3.01.9_I03.01	When multiple Ethernet interfaces are used, interference in the routing table causes Error 29004 when the function block CfgSetDefaultGateway() is called
400057809	Problem	ARSG4_3.08.6_F03.08	-	Using logger functions in fast task classes can lead to cycle time violations
400053732	Problem	ARSG4_3.08.5_E03.08	V3.00.81.18	Priority of Profibus master can be configured
400053957	Problem	ARSG4_3.08.5_E03.08	-	Time calculation incorrect for logger entries in SDM
400056381	Problem	ARSG4_3.08.5_E03.08	ARSG4_3.06.22_V03.06	Priority of CANopen master can be configured
400049979	Problem	ARSG4_3.08.5_E03.08	ARSG4_3.01.7_G03.01	SDM - Update problems with dynamic page content
400062152	Problem	ARSG4_3.08.4_D03.08	V3.00.81.24 SP0x	Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem
400051015	Problem	ARSG4_3.08.4_D03.08	ARSG4_3.07.1_A03.07	Support for Cino F788-G barcode scanner
400055674	Problem	ARSG4_3.08.4_D03.08	ARSG4_3.06.22_V03.06	Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem
400054457	Problem	ARSG4_3.08.4_D03.08	ARSG4_3.06.22_V03.06	CANopenSDOWriteData() terminates after downloading several hundred bytes due to a full CAN buffer
400054833	Problem	ARSG4_3.08.4_D03.08	ARSG4_3.06.22_V03.06	PP065: Warning "26061 Cannot configure minimum reduced cycle time due to old firmware" because of different drivers or POWERLINK firmware
400055463	Problem	ARSG4_3.08.4_D03.08	ARSG4_3.01.9_I03.01	CANopenSDOWrite8() only sends every second SDO
400055214	Problem	ARSG4_3.08.4_D03.08	ARSG4_3.01.8_H03.01	Using CANopenNMT() can prevent a task download from completing
400054360	Problem	ARSG4_3.08.3_C03.08	V3.00.81.20 SP01	With the function block CanOpenGetState(), when enable=FALSE the function block freezes during execution
400037524	Problem	ARSG4_3.08.3_C03.08	V3.00.80.25	Error "9098 - System I/O cross-link task cycle time violation" is generated when a SafePLC and standard PLC are linked and a breakpoint is set on the standard PLC.
400054911	Problem	ARSG4_3.08.3_C03.08	ARSG4_3.06.22_V03.06	Function blocks from AsXML library ignore enable input
237362	New function	ARSG4_3.08.2_B03.08	-	Logbook entry for firmware update now contains old and new version
400040758	New function	ARSG4_3.08.2_B03.08	-	Old and new firmware version entered in logbook
400051743	Problem	ARSG4_3.08.2_B03.08	ARSG4_3.06.22_V03.06	If no destination directory is specified for DirCopy(), copying to ARsim doesn't work.
257265	New function	ARSG4_3.08.16_P03.08	nicht relevant	Detection of POWERLINK hardware using AS-IO-Diag
400065938	Problem	ARSG4_3.08.15_O03.08	ARSG4_3.07.4_D03.07	c command line argument in the ARwin configuration disables not only the COM2 interface but also COM1.
400069009	Problem	ARSG4_3.08.15_O03.08	ARSG4_3.07.4_D03.07	VC application blocks netX data communication
400068763	Problem	ARSG4_3.08.14_N03.08	ARSG4_3.08.11_K03.08	Naming of POWERLINK devices from other vendors in AsIODiag
400069276	Problem	ARSG4_3.08.14_N03.08	ARSG4_3.08.10_J03.08	Using a handle that has already been closed can cause a page fault (read, write, or close on a handle)
400061758	Problem	ARSG4_3.08.14_N03.08	ARSG4_3.06.22_V03.06	ACOPOS synchronization problem 6002 in cascading POWERLINK networks when POWERLINK cycle time > 2ms
400055409	Problem	ARSG4_3.08.14_N03.08	ARSG4_3.01.9_I03.01	EpISDORead() stays in the status "Busy" after the enable FB is set to FALSE
400065540	Problem	ARSG4_3.08.12_L03.08	V3.00.81.24 SP0x	ARwin shows incorrect amount of available DRAM memory in SDM
400068762	New function	ARSG4_3.08.12_L03.08	nicht relevant	Read ACOPOS device type using AsIODiag function block
400060016	Problem	ARSG4_3.08.12_L03.08	ARSG4_3.07.2_B03.07	Error 26051 in logbook when X20CS2770 after X20BCx083 on APC or Power Panel
400055409	Problem	ARSG4_3.08.12_L03.08	ARSG4_3.01.9_I03.01	EpISDORead() stays in the status "Busy" after the enable FB is set to FALSE
400048318	New function	ARSG4_3.08.11_K03.08	V3.00.80.31 SP01	New function blocks FileWriteEx() and FileTruncate()
400052213	Problem	ARSG4_3.08.11_K03.08	V3.00.80.31 SP01	ENUM data types in ASP functions
400066313	Problem	ARSG4_3.08.11_K03.08	ARSG4_3.06.22_V03.06	If, for example, the X2X timer is used as the system clock, then remanent variables aren't saved when there is a power failure
400057308	Problem	ARSG4_3.08.11_K03.08	ARSG4_3.01.9_I03.01	Target crashes with page fault in the web server module when an ASP write command is run from a website with more than 9 variables.
400059335	Problem	ARSG4_3.08.10_J03.08	-	Correction of the error in which very short and light pressure on the touch screen can cause the position to be evaluated incorrectly
400037284	New function	ARSG4_3.08.10_J03.08	-	Improved response time for PP065 touch screen
400064601	Problem	ARSG4_3.08.10_J03.08	ARSG4_3.08.8_H03.08	Insufficient logbook entry when ArConfig has double channels/QLinks.
400062576	Problem	ARSG4_3.08.10_J03.08	ARSG4_3.07.4_D03.07	Error handling SYSCONF module in SYSROM
400062449	Problem	ARSG4_3.08.10_J03.08	ARSG4_3.07.4_D03.07	When using multiple netX CANopen master modules, a different handle is used for each module, which speeds up asynchronous function block processing.
400064575	Problem	ARSG4_3.08.10_J03.08	ARSG4_3.07.3_C03.07	Attempt to download AsCANopen library to ARsim rejected with error 9650 "Library function not available"
400063458	New function	ARSG4_3.08.10_J03.08	ARSG4_3.06.22_V03.06	DevLink() blocks other file actions for a relatively long time
257375	Problem	ARSG4_3.08.10_J03.08	ARSG4_3.01.11_K03.01	PP065 in combination with a 4PP065.IF23-1 no longer booting due to a faulty flash access after a firmware update
400069276	Problem	ARSG4_3.07.9_I03.07	ARSG4_3.08.10_J03.08	Using a handle that has already been closed can cause a page fault (read, write, or close on a handle)

400009063 , 400065339	New function	ARSG4_3.07.8_H03.07	V3.0.71.16 SP01	Find unconfigured POWERLINK stations with ASIODiag
400066313	Problem	ARSG4_3.07.8_H03.07	ARSG4_3.06.22_V03.06	If, for example, the X2X timer is used as the system clock, then remanent variables aren't saved when there is a power failure
400057456	Problem	ARSG4_3.07.8_H03.07	ARSG4_3.01.7_G03.01	Update to ARwin configurator
400065562	Problem	ARSG4_3.07.7_G03.07	ARSG4_3.07.6_F03.07	SDM 1 (Automation Studio 3.0.80) doesn't work with Firefox 4.0 and higher
400062576	Problem	ARSG4_3.07.7_G03.07	ARSG4_3.07.4_D03.07	Error handling SYSCONF module in SYSROM
400062449	Problem	ARSG4_3.07.7_G03.07	ARSG4_3.07.4_D03.07	When using multiple netX CANopen master modules, a different handle is used for each module, which speeds up asynchronous function block processing.
400065361	Problem	ARSG4_3.07.7_G03.07	ARSG4_3.07.3_C03.07	IF1063-1 doesn't work on the BC1083
400064575	Problem	ARSG4_3.07.7_G03.07	ARSG4_3.07.3_C03.07	Attempt to download AsCANopen library to ARsim rejected with error 9650 "Library function not available"
400065239	Problem	ARSG4_3.07.7_G03.07	ARSG4_3.07.2_B03.07	Firmware Update for SafeMC did not complete.
400060887	Problem	ARSG4_3.07.6_F03.07	V3.00.81.22 SP01	CANopen slave not started by the master if it sends only an emergency telegram with data =0 instead of a Boot-Up message
400058109	Problem	ARSG4_3.07.6_F03.07	V3.00.81.22 SP01	It can take very long to install I/O mappings, which can result in the connection being terminated due to a time violation.
400053447	Problem	ARSG4_3.07.6_F03.07	V3.00.81.20 SP01	In some circumstances, the watchdog may be triggered during debugging because a required system resource (Mutex) is not available
400053004 , 400052525	Problem	ARSG4_3.07.6_F03.07	V3.00.81.18	Trigger condition not working
400039937	Problem	ARSG4_3.07.6_F03.07	V3.00.80.25	CANIO slaves are not always found after startup
400055836	New function	ARSG4_3.07.6_F03.07	-	PP45 could fail at low temperatures
400059335	Problem	ARSG4_3.07.6_F03.07	-	Correction of the error in which very short and light pressure on the touch screen can cause the position to be evaluated incorrectly
400060899	Problem	ARSG4_3.07.6_F03.07	ARSG4_3.07.4_D03.07	Due to an error in the task queue of the Modbus driver, packages that are received may no longer be allocated to the sent queries, thereby causing a connection timeout.
257430	Problem	ARSG4_3.07.6_F03.07	ARSG4_3.01.11_K03.01	PP065 in combination with a 4PP065.IF23-1 no longer booting due to a faulty flash access after a firmware update
400060157	Problem	ARSG4_3.07.6_F03.07	ARSG4_2.96.12_L02.96	The status BUSY can remain set for up to 120 minutes if the connection is lost when using the function block DirInfo() over a network
- 400047408 , 400049937	Problem	ARSG4_3.07.5_E03.07	V3.00.81.12	Error 29009 occurs when reading the default gateway
- 400047408 , 400049937	Problem	ARSG4_3.07.5_E03.07	V3.00.81.12	Error 29009 occurs when reading the default gateway
400051942	Problem	ARSG4_3.07.5_E03.07	-	ModbusTCP doesn't start all slaves
400060652	Problem	ARSG4_3.07.5_E03.07	ARSG4_3.07.3_C03.07	CANrwtab() returns invalid data
400057746	Problem	ARSG4_3.07.5_E03.07	ARSG4_3.06.4_D03.06	Calling the function block CfgSetEthConfigMode() with the same mode that is already in use triggers Error 29003
400057746	Problem	ARSG4_3.07.5_E03.07	ARSG4_3.06.4_D03.06	Calling the function block CfgSetEthConfigMode() with the same mode that is already in use triggers Error 29003
251317	Problem	ARSG4_3.07.5_E03.07	ARSG4_3.06.22_V03.06	POWERLINK: ACOPOSMulti with SafeMC as chained station
400060965	Problem	ARSG4_3.07.5_E03.07	ARSG4_3.06.22_V03.06	POWERLINK: ACOPOSMulti with SafeMC as chained station
400047724	Problem	ARSG4_3.07.5_E03.07	ARSG4_3.01.9_I03.01	When multiple Ethernet interfaces are used, interference in the routing table causes Error 29004 when the function block CfgSetDefaultGateway() is called
400057308	Problem	ARSG4_3.07.5_E03.07	ARSG4_3.01.9_I03.01	Target crashes with page fault in the web server module when an ASP write command is run from a website with more than 9 variables.
400048959	Problem	ARSG4_3.07.5_E03.07	ARSG4_2.96.10_J02.96	ModbusTCP master doesn't work on AC141
400053732	Problem	ARSG4_3.07.4_D03.07	V3.00.81.18	Priority of Profibus master can be configured
400056515	Problem	ARSG4_3.07.4_D03.07	ARSG4_3.07.2_B03.07	Watchdog after CanWrite() on IF060 with IF621
400057340	Problem	ARSG4_3.07.4_D03.07	ARSG4_3.07.2_B03.07	POWERLINK reports error 27306 when starting a visualization application
400057827	Problem	ARSG4_3.07.4_D03.07	ARSG4_3.07.1_A03.07	Maximum number of device handles exceeded with approx. 400 safety modules
400053957	Problem	ARSG4_3.07.4_D03.07	ARSG4_3.06.22_V03.06	Time calculation incorrect for logger entries in SDM
400056381	Problem	ARSG4_3.07.4_D03.07	ARSG4_3.06.22_V03.06	Priority of CANopen master can be configured
400055214	Problem	ARSG4_3.07.4_D03.07	ARSG4_3.01.8_H03.01	Using CANopenNMT() can prevent a task download from completing
400049979	Problem	ARSG4_3.07.4_D03.07	ARSG4_3.01.7_G03.01	SDM - Update problems with dynamic page content
400051015	Problem	ARSG4_3.07.3_C03.07	ARSG4_3.07.1_A03.07	Support for Cino F788-G barcode scanner
400054123 , 400055855	Problem	ARSG4_3.07.3_C03.07	ARSG4_3.06.22_V03.06	When downloading in one cycle mode, an interrupt block can cause an I/O cycle time violation (27306)
400055674	Problem	ARSG4_3.07.3_C03.07	ARSG4_3.06.22_V03.06	Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem
400054457	Problem	ARSG4_3.07.3_C03.07	ARSG4_3.06.22_V03.06	CANopenSDOWriteData() terminates after downloading several hundred bytes due to a full CAN buffer
400055463	Problem	ARSG4_3.07.3_C03.07	ARSG4_3.01.9_I03.01	CANopenSDOWrite8() only sends every second SDO
400053444	Problem	ARSG4_3.07.3_C03.07	ARSG4_3.00.22_V03.00	Variable values sometimes displayed incorrectly on ASP pages
400054360	Problem	ARSG4_3.07.2_B03.07	V3.00.81.20 SP01	With the function block CanOpenGetState(), when enable=FALSE the function block freezes during execution
400053201	Problem	ARSG4_3.07.2_B03.07	ARSG4_3.06.22_V03.06	Automation Runtime boots cyclically or crashes addresses in the same subnet are assigned on both Ethernet interfaces
400051241	Problem	ARSG4_3.07.2_B03.07	ARSG4_3.06.22_V03.06	Remanent variables are not initialized with their INIT values when the CF is regenerated and a warm restart is performed.
400053665 , 400054105 , 400055244	Problem	ARSG4_3.07.2_B03.07	ARSG4_3.06.22_V03.06	I/O cycle time violation during startup due to initialization of graphic card
400054911	Problem	ARSG4_3.07.2_B03.07	ARSG4_3.06.22_V03.06	Function blocks from AsXML library ignore enable input

400046414	Problem	ARSG4_3.07.1_A03.07	ARSG4_3.06.3_C03.06	Pagefault / Memory not in heap
400043785	Problem	ARSG4_3.07.1_A03.07	ARSG4_2.95.20_T02.95	No clear text in the error logbook when data in the SRAM is lost while shutting down

1A4000.02 (2.1 Automation Runtime SGC)

ID	valuation	solved since	known since	Description
264890	Problem	-	ARSGC_2.31.5.E02.31	X20CP0291: new firmware V43
264885	Problem	-	ARSGC_2.31.5.E02.31	X20CP0292: new firmware V43
264880	Problem	-	ARSGC_2.31.5.E02.31	X20XC0292: new firmware V43
400068517	Problem	ARSGC_2.32.6.F02.32	ARSGC_2.31.6.F02.31	Changing the number of configured task classes can cause an error when booting the system (27352 - Error generating a task class)
400063995	Problem	ARSGC_2.32.5.E02.32	ARSGC_2.31.6.F02.31	If DM_Lib function blocks are used to write to the user flash of the SGC CPU, after some time a locking problem results in Error 6025 - "Checksum of system management table destroyed".
400039589	Problem	ARSGC_2.32.5.E02.32	ARSGC_2.01.7.G02.01	Sporadic error with TON_10ms
400060158	Problem	ARSGC_2.32.2.B02.32	ARSGC_2.31.5.E02.31	I/O outputs are set although the target is in service mode
400056097	Problem	ARSGC_2.32.2.B02.32	ARSGC_2.31.4.D02.31	When generating data objects in the target memories USRRAM and SYSROM using the function blocks DataObjCopy() and DataObjMove(), Error 20604 "Error installing data object" is returned.

1A4000.02 (2.2 Automation Runtime SG3)

ID	valuation	solved since	known since	Description
400056019 400059564	Problem	ARSG3_2.52.3_X08.13	V3.00.81.18	In AR version D2.31 and higher, DatObjCreate() sends the status 0xFFFFE even though Enable = TRUE
400035331 400036518	Problem	ARSG3_2.51.3_X08.10	ARSG3_2.50.1_X08.06	PV_xgetadr() always returns Status 3092
400027625	Problem	ARSG3_2.51.2_X08.09	V3.0.71.31 SP05	Functions from PPDPR library not found
400029636	Problem	ARSG3_2.51.2_X08.09	V2.7.0.0017 SP10	IOC2003() delivers status 5556 if local variables are saved in user RAM
400023939	Problem	ARSG3_2.51.1_X08.08	ARSGC_2.01.7.G02.01	Error initializing STRING variables

1A4000.02 Automation Help

ID	valuation	solved since	known since	Description
400068552	Problem	V3.00.90.12	V3.00.81.28 SP0x	Motion Samples: All errors have been acknowledged at once.
400049392	Problem	V3.00.90.12	V3.00.80.31 SP01	Additional information 0x80004008 E_EXISTS is not described in error description 28700.

1A4000.02 Automation Net/PVI

ID	valuation	solved since	known since	Description
400044791	Problem	V3.00.90.08	V3.00.80.31 SP01	Error 4813 when transferring project after "Rebuild All"
400058543	Problem	V3.00.81.27 SP0x	V3.00.81.24 SP0x	AS crashes when monitor mode is activated
400054659	Problem	V3.00.81.24 SP02	V3.00.81.22 SP01	When editing structures with more than 10000 elements in the Ladder Diagram, switching to monitor mode is very slow.
400050940	Problem	V3.00.81.19 SP01	V3.00.81.18	Crash in monitor mode on an SFC task when data types with an empty structure definition are used.
400051340	Problem	-	V3.00.81.18	Memory lost when writing variables in Windows CE 6.0
400061601	New function	-	PVI3.00.02.3001	Global setting for the index type of array variables from the INA2000 line.
400059678	Problem	-	PVI3.00.00.3121	The data pointer in the PVI callback is not ZERO for a Write-Response.
400060259	Problem	-	PVI3.00.00.3121	TC global variables from PG2000 programs are read incorrectly.
400060390	Problem	-	PVI3.00.00.3121	The online connection cannot be changed if there is no connection with the CPU.
400045783 400061055	Problem	-	PVI3.00.00.3119	OPC server DA 3.0 doesn't return DataChanged events in Windows Vista / 7
400041443	Problem	-	PVI3.00.00.3119	In the Connected event of a structure variable, the members are not yet initialized.
400045640	Problem	-	PVI3.00.00.3117	OPC server freezes when a client creates multiple subscriptions simultaneously
400039677	Problem	-	PVI3.00.00.3117	Behavior of limit alarms not completely correct on the B&R PVI OPC server DA 3.0
400046703	Problem	-	PVI3.00.00.3117	The class BR.AN.PviServices.Value throws an exception if the constructor for an array is used with values
400039702	Problem	-	PVI3.00.00.3117	Task collection can't be changed in a "Task Connected" event.
400057808	Problem	-	PVI3.00.00.3021	PVI crashes when writing a CPU status string with the length 0
400059234	Problem	-	PVI3.00.00.3021	Starting with Version 4.0.1.1, Error 12020 is triggered when connecting variables via the MODBUS line.
400071802	Problem	PVI3.00.02.3114	PVI3.00.02.3112	"Include" command doesn't work with relative paths
400069860	Problem	PVI3.00.02.3114	PVI3.00.02.3112	Problems restoring CF image on BIOS devices with CFs >= 2GB
400073009	Problem	PVI3.00.02.3114	PVI3.00.02.3013	"Compare" followed by IF command does not work
400070663	Problem	PVI3.00.02.3112	PVI3.00.02.3012	When a negative TIME variable is read, a "-" character is inserted in the result
400063663	Problem	PVI3.00.02.3107	PVI3.00.02.3106	CD creation: Error message with command "CFRestore"
242102	Problem	PVI3.00.02.3107	PVI3.00.02.3101	PVI error when there are two process objects with the same name
400052878	Problem	PVI3.00.02.3107	PVI3.00.00.3121	Structure data with FBK elements and BOOLEAN variables is displayed incorrectly in the PVI
400048851	New function	PVI3.00.02.3107	PVI3.00.00.3118	PVI doesn't generate any logger files if the specified directory doesn't exist.

400042314	Problem	PVI3.00.02.3107	PVI3.00.00.3117	Error 4820 after multiple restarts of client and CPU
400063228	Problem	PVI3.00.02.3107	PVI3.00.00.3021	String variables cannot be used as default values for input dialog boxes.
400062699	Problem	PVI3.00.02.3106	V3.00.81.16	Input box for command "WriteVariableUser" appears in background
400063068	Problem	PVI3.00.02.3106	PVI3.00.00.3121	"CFService" command does not function
400062071 400062540	Problem	PVI3.00.02.3106	PVI3.00.00.3121	CD creation: File "PviLog.dll" not copied
400057670	Problem	PVI3.00.02.3106	PVI3.00.00.3021	Not all modules added to the CF image if it is created right from the project
400026013	Problem	PVI3.00.02.3105	V3.00.00.3013	"VariableList" command doesn't terminate when connection to PLC is lost
400059159 400059487	Problem	PVI3.00.02.3105	PVI3.00.00.3121	CF creation: Size of the SYSTEM partition calculated incorrectly for an ARNC0 project
400060431	Problem	PVI3.00.02.3105	PVI3.00.00.3120	In Windows 7, no USB devices are listed for performing a USB remote install
400054444	Problem	PVI3.00.02.3105	PVI3.00.00.3119	Created CD freezes when executed in service mode
400049628 400052330 400062112	Problem	PVI3.00.02.3105	PVI3.00.00.3119	CF images (.zip) can no longer be opened with older versions of PVI Transfer
400044321 400049176	Problem	PVI3.00.02.3105	PVI3.00.00.3117	When individual files are restored, not all files are copied to the CF card.
400059786 400071010 400071856	Problem	PVI3.00.02.3105	PVI3.00.00.3021	OPC server DA 3.0 doesn't return DataChanged events in Windows Vista / 7
400057533	Problem	PVI3.00.02.3105	PVI3.00.00.3019	In Windows 7 an error is generated when applying the PVI diagnostics settings.
400043745	New function	PVI3.00.02.3104	PVI3.00.00.3117	Support for 64-bit PVI Client applications
400064771	Problem	PVI3.00.02.3009	PVI3.00.00.3021	INACAN returns error 13076 for 5AC600.CANI-00
400047558 400054453 400061539	Problem	PVI3.00.02.3008	PVI3.00.00.3118	Windows OPC server handles BOOL arrays incorrectly
400061893	Problem	PVI3.00.02.3007	PVI3.00.00.3121	OPC server - continuous RAM consumption
400056765	Problem	PVI3.00.02.3007	PVI3.00.00.3121	Events are no longer triggered
400058083	Problem	PVI3.00.02.3007	PVI3.00.00.3119	CPU object causes Error event with the error number 0 instead of the Connected event.
400048361 400068942 400074073	Problem	PVI3.00.02.3007	PVI3.00.00.3117	If started in a 64-bit environment (e.g. Windows 7 x64), the OPC Monitor crashes with an error message and cannot be used.
400040592	Problem	PVI3.00.02.3007	PVI3.00.00.3116	OPC monitor stops responding on Windows 7 - 64 bit
400058555	Problem	PVI3.00.02.3007	PVI3.00.00.3021	BR.AN.PviServices.Value cannot be assigned directly to the System.DateTime.
400045215	Problem	PVI3.00.02.3005	PVI3.00.00.3117	Minimum subscription refresh rate for OPC server DA 3.0 is 200ms
400023802	Problem	PVI3.00.02.3001	V2.6.0.3012	PVI security dongle not detected by PVI when using Windows 2003 Server x64

1A4000.02 Automation Studio 2x

ID	valuation	solved since	known since	Description
400068078	Problem	V3.00.90.12	V2.7.0.0020 SP13	Unable to enter parameters for the Profibus master modules
400056581	Problem	V3.00.90.07	V2.7.0.0020 SP13	Recursion when using a field variable in CheckBounds
400068078	Problem	V3.00.81.29 SP0x	V3.00.81.26 SP0x	Unable to enter parameters for the Profibus master modules
400056581	Problem	V3.00.81.26 SP0x	V2.7.0.0020 SP13	Recursion when using a field variable in CheckBounds

1A4000.02 Automation Tools

ID	valuation	solved since	known since	Description
400030828	Problem	V3.00.81.19 SP01	V3.0.71.31 SP05	I/O switchboard project can't be opened again after it's closed

1A4000.02 Motion Components

ID	valuation	solved since	known since	Description
400063641	Problem	V3.00.90.11	V3.00.90.09	ACOPOS parameter tables are not completely converted from AS 2.x to AS 3.x

1A4000.02 Visual Components

ID	valuation	solved since	known since	Description
267408	Problem	VC 3.93.2	VC 3.92.8	If all of a project's languages aren't transferred to the target, an error occurs when loading the text resources.
400059292 400065022 400055401	Problem	VC 3.93.0	ARSG4_3.08.7_G03.08	SDM2: Can't access AR000 SDM via VC control
400049586	Problem	VC 3.92.8	VC 3.64.2	Rounding error in the function VCDP_Utf8Set(...)
400069356	Problem	VC 3.92.6	VC 3.73.0	PieChart control not refreshed when the sum of the values remains the same.
400061529 400065695	Problem	VC 3.92.4	V3.00.81.24 SP03	Incorrect status for VA_wcGetActAlarmList on VC Windows terminals
400060084	Problem	VC 3.92.0	VC 3.73.0	Error in LED and key handling on VC Windows terminals.
400064836	Problem	VC 3.91.8	VC 3.73.0	Invalid layer reference on a page causes a crash
400054078	Problem	VC 3.91.8	VC 3.72.6	The visualization application stops responding after the function VA_SetVisualizationZOrder is called.

400054540	Problem	VC 3.91.6	VC 3.90.2	When all items are locked, pressing the down arrow in a DropDown control causes a page fault.
400043306	Problem	VC 3.91.6	VC 3.72.6	Pressing a key causes a page fault if the index in a drop-down control is outside the min/max range
400060097	Problem	VC 3.91.6	VC 3.64.4	VCDP_Utf8Set() - Parameter 'pv-userid' not present in event
400063188	Problem	VC 3.91.6	V3.00.90.01	Setting the property Format\PitchLines\MajorDevisions for the control element "Sale" to 0 pushes the CPU load to 100%
400044702	New function	VC 3.91.6	V3.00.81.11	In a user trend, the sample rate can be defined by a data point.
400058612	Problem	VC 3.91.4	VC 3.73.0	Trend time scale incorrect after changing the system time.
400057460 400059634	Problem	VC 3.91.4	VC 3.72.6	Trend time drifts away from the system time
400041732	Problem	VC 3.91.4	VC 3.35.4	VNC clients with different encoding cause display errors
400056229	Problem	VC 3.91.4	V3.00.81.23 SP02	A TrendScaleContainer with a width of <= 16 pixels causes a page fault in VC
400058121	Problem	VC 3.91.4	V3.00.81.18	Defining a SampleCount of 2147483647 (approx 2GB) in the TrendControl causes a PageFault
400054669 400055052	Problem	VC 3.91.0	VC 3.72.6	VC4 alarms are displayed with the wrong forecolor.
400054186 400055491 400059875 400061184	Problem	VC 3.91.0	VC 3.72.6	Calibration data points don't work
248485	Problem	VC 3.91.0	V3.00.81.22 SP01	The internal data point "IP address" doesn't work for the X20CP1483-1.
400050107	Problem	VC 3.90.6	VC 3.64.2	PW35 with same node number not working on different X2X buses
400051271 400050884 400052430	Problem	VC 3.90.2	VC 3.72.6	Bitmaps can't be displayed on touchpads.
400045261	Problem	VC 3.90.2	VC 3.64.2	ARsim crashes if the True Type font "CIHLVB.TTF" is used.
400051722	Problem	VC 3.90.2	VC 3.64.2	Page fault when the focus is placed on a drop-down control that has no text group.
400051227	Problem	VC 3.90.2	VC 3.64.2	If the listbox receives a Lock event while scrolling, the visualization application freezes.
- 400058133 400065180	Problem	VC 3.90.2	VC 3.64.2	Page fault in the listbox control when the Options data point is used
400044645	Problem	VC 3.90.2	VC 3.64.0	Watchdog (9206) when the function ScreenShot() from the ScreenShot library is executed when no storage device is connected.
400049974	Problem	VC 3.90.2	V3.00.80.31 SP01	Entering a certain Zoom factor for the Zoom data point freezes the visualization application.
400049447	Problem	VC 3.90.2	V3.00.80.25	EDIT control can't load a 16 kB file.
400000595	Problem	V3.00.90.16	V3.00.90.14	Crash when VC objects are opened in a specific project
400043304	Problem	V3.00.90.16	V3.00.81.19	Incorrect display of arrays with many elements (80000 or more)
400067118	Problem	V3.00.90.13	VC 3.73.0	When VC Windows terminal is restarted, a running ARwin is not closed
400037920 400041371 400045431	Problem	V3.00.90.13	V3.00.90.11	Display error in the bitmap 'zuneAlphaPadQvga'
400046081	Problem	V3.00.90.13	V3.00.80.31 SP01	Layer copied from a page to the common layers keeps the property "hidden"
400068118	Problem	V3.00.90.12	V3.00.81.24 SP0x	Compiler output improved for Error 7164.
400065760	Problem	V3.00.90.12	V3.00.81.24 SP0x	Using multiple VC data sources causes a page fault.
400062173	Problem	V3.00.90.12	V3.00.81.24 SP03	Switching from 8-bit to 32-bit isn't applied to all graphics.
400053770	Problem	V3.00.90.12	V3.00.80.31 SP01	Element of a structure can't be displayed during runtime
400063338	Problem	V3.00.90.11	VC 3.73.0	Display of import log file doesn't work. The file is created in the wrong folder.
400053165	Problem	V3.00.90.11	VC 3.72.6	If an incorrect administrator password is entered, the VC Windows terminal won't boot automatically anymore.
400064647	Problem	V3.00.90.11	V3.00.81.24 SP0x	Changes to the name of the visualization are not saved in the project file.
400064021	Problem	V3.00.90.11	V3.00.81.24 SP0x	Incorrect error message when the wrong directory is specified in the VC Import Wizard.
400060674	Problem	V3.00.90.11	V3.00.81.23 SP02	With more than 10 key levels, switching displayed level in VC editor doesn't work correctly
400057211 400060560 400062831 400070847	Problem	V3.00.90.11	V3.00.81.18	It was no longer possible to create an internal data source.
400034476	Problem	V3.00.90.11	V3.00.80.25	Grid settings in VC editor disappear if window too small
400060889	Problem	V3.00.90.11	V3.00.71.32 SP06	VC3 visualization application always transferred
400052964 400060332	Problem	V3.00.90.10	VC 3.72.6	When opened, the visualization application is always marked as having been changed
400054507	New function	V3.00.90.10	VC 3.64.0	For the Toggle and Momentary DP key actions, the default setting for "pressed" status has been changed to 1.
400062342 400062713 400062960	New function	V3.00.90.10	V3.00.90.06	Merging data sources when importing resources
400062424	Problem	V3.00.90.10	V3.00.90.05	Importing a 32-bit PNG inserts it as an 8-bit bitmap
400062105	Problem	V3.00.90.10	V3.00.81.26 SP0x	VC Editor crashes if a CPU name with more than 20 characters is used in a project.
400064754	Problem	V3.00.90.10	V3.00.81.24 SP0x	Variables are not deleted from the data source file when the last active reference is deleted.
400064577	Problem	V3.00.90.10	V3.00.81.24 SP0x	Limit for the expand function increased from 255 to 10000 elements.
400062865	Problem	V3.00.90.09	V3.00.81.24 SP03	The variable that is used exclusively for Fill Areas is decoupled from the property by VC
400060300	Problem	V3.00.90.09	V3.00.81.23 SP02	Layout of the listbox during runtime depends on the text size in Windows 7
400061451	Problem	V3.00.90.09	V3.00.81.23 SP02	Refactored variable not being saved
400059732	Problem	V3.00.90.09	V3.00.81.23 SP02	Refactored variable not being saved
400052336 400061114	Problem	V3.00.90.09	V3.00.81.23 SP02	Array elements not being linked to the task during import

400057285	Problem	V3.00.90.09	V3.00.81.22 SP01	TextIndexOffset -1 not being saved
400059383 400061465 400063019 400064576	Problem	V3.00.90.09	V3.00.81.22 SP01	Unit groups can no longer be connected to arrays
400058284	Problem	V3.00.90.09	V3.00.81.18	Absolute path in the *.mak file in VC3 visualization
400063838 400062713 400062960	Problem	V3.00.90.09	V3.00.81.18	Data points are decoupled during import
400056974 400059791	Problem	V3.00.90.09	V3.00.81.18	Members of FUB arrays not displayed correctly in the VC data source
244258	Problem	V3.00.90.08	VC 3.72.8	ReplaceColor doesn't work correctly for 32-bit bitmaps.
400054482	Problem	V3.00.90.08	VC 3.64.2	ReplaceColor doesn't work correctly for 32-bit bitmaps.
400055896	Problem	V3.00.90.08	V3.00.81.24 SP0x	The structure of a reference is displayed incorrectly in the cross reference in VC.
400061454	New function	V3.00.90.08	-	Output number of acknowledged alarms.
400055909	Problem	V3.00.90.07	VC 3.72.6	Data points linked to vKeys are sometimes disconnected if the project contains more than one visualization
400055285	Problem	V3.00.90.07	V3.00.81.18	Incorrect handling of data source in source control
400026964 400049218	Problem	V3.00.90.07	V3.0.71.31 SP05	ShowConnections function doesn't work on text groups when pages are closed
400050882 400055585 400060760	Problem	V3.00.90.06	VC 3.72.6	Variable and units overlap in the editor.
400049724 400052262	Problem	V3.00.90.06	VC 3.64.2	When a visualization page is copied, the tab order of the controls is lost
400055896	Problem	V3.00.90.06	V3.00.81.18	After a "Build all", visualization objects ignored in "Build Cross Reference"
400055155	Problem	V3.00.90.06	V3.00.81.18	Build error when config name contains "Temp"
400052054	Problem	V3.00.90.06	V3.00.81.18	Incorrect error message when multiple KeyMapping files are mapped
400055336	Problem	V3.00.90.06	V3.00.81.18	GDI resources are lost when switching between two trend windows
400051047	Problem	V3.00.90.06	V3.00.81.18	Problem replacing data points in VC
400050913	Problem	V3.00.90.06	V3.00.81.18	Additional nodes in structures in the data source view
400008201 400006669 400009276 400009917 400013774 400015386 400015877 400016146 400018752 400044279 400053932 400060613	New function	V3.00.90.06	V2.6.0.0012 SP02	The number of key levels has been increased to six
400061451 400062661	Problem	V3.00.81.26 SP0x	V3.00.81.23 SP02	Refactored variable not being saved
400055285	Problem	V3.00.81.26 SP0x	V3.00.81.18	Incorrect handling of data source in source control
400058347	Problem	V3.00.81.25 SP04	V3.00.81.22 SP01	Changing the property "Apperance.ColorDatapoint" in the style sheet causes an error
400053896 400057381 400061062	Problem	V3.00.81.25 SP04	V3.00.81.18	Error: PLC variable not defined
400055909	Problem	V3.00.81.24 SP02	VC 3.72.6	Data points linked to vKeys are sometimes disconnected if the project contains more than one visualization
400055896	Problem	V3.00.81.24 SP02	V3.00.81.18	VC objects were sometimes ignored in "Build Cross Reference"
400055386	Problem	V3.00.81.23 SP02	V3.00.81.22 SP01	When a text group entry is selected in VC, it is sometimes displayed incorrectly.
400054708	Problem	V3.00.81.23 SP02	V3.00.81.18	Node numbers of VC Windows targets can't be changed after they are set
400055155	Problem	V3.00.81.22 SP01	V3.00.81.18	Compiler error when a configuration name contains "temp"
400050839	Problem	V3.00.81.20 SP01	V3.00.81.18	After converting from AS3.00.80 to AS3.00.81 the wrong value is used for ReplaceColor.
400052261 400056975	Problem	V3.00.81.20 SP01	V3.00.81.18	When opening a VC project, the tab order was read incorrectly.
400046570	Problem	V3.00.81.20 SP01	V3.00.80.31 SP01	Error that led to sporadic crashes when importing VC resources has been corrected.
400036265	Problem	V3.00.81.20 SP01	V3.00.80.25	Incorrect configuration of alarm system can now be corrected using the Edit function.
400073633	Problem	V3.00.81.20 SP01	V3.00.80.09	Problem compiling constants in VC3
400035848	Problem	V3.00.81.20 SP01	V3.0.71.31 SP05	Focus placed incorrectly when performing "Replace" in VC
263545	Problem	-	VC 3.92.0	The font "Small Font" is not displayed correctly
228710	Problem	-	V3.00.81.14	A build with GCC 2.95.3 doesn't work if the installation path contains parentheses ()
400056208	Problem	-	V3.00.81.14	Incorrect display of control element "Numeric" in the editor

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ID	valuation	solved since	known since	Description
400032355	New function	V3.00.90.10	V3.00.90.09	Setting for the maximum number of profiler archive modules
400028142	New function	V3.00.90.10	V3.00.80.20	Checklist for handling errors
400052222 400053742 400054269 400054445 400056806	Problem	-	V3.00.81.22 SP01	Calculation of Speed/Torque Characteristics failed
227270	New function	-	V3.00.80.25	Executable samples for the DRV_mn library

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ID	valuation	solved since	known since	Description
400072895	Problem	V3.00.90.17	V3.00.90.15	Festo Profinet device can not be inserted
400071495	Problem	V3.00.90.15	V3.00.81.27 SP0x	Build error "Required white space was missing" when using regional and language settings for China
400070573	Problem	V3.00.90.14	V3.00.90.12	CANopen Master DTM checks whether default values are defined in the EDS files for the COB-ID. If not, it tries to define default values that conform to the standards.
400071333	Problem	V3.00.90.14	V3.00.90.11	Autocomplete error with local function blocks
400069448	Problem	V3.00.90.14	V3.00.81.27 SP0x	Memory overwritten when two local function blocks with the same name are used
400069458	Problem	V3.00.90.14	V3.00.81.27 SP0x	Incorrect code generated when a block instance with EN/ENO is used multiple times
400070129	Problem	V3.00.90.14	V3.00.81.26 SP0x	"Undefined reference" when generating C++ task
400072054	Problem	V3.00.90.14	V3.00.81.24 SP0x	CNC Trace: Some NC object names in the NC Trace data points are incorrect
234606	Problem	V3.00.90.14	V3.00.81.09 (FR000488)	New reserved names
400042894	New function	V3.00.90.14	V3.00.80.25	With CPUs used as a POWERLINK V2 CN, it is now possible to configure a fixed InSize and OutSize for the POWERLINK data.
400068093	Problem	V3.00.90.12	V3.00.81.26 SP0x	Build terminates unexpectedly
400067925	Problem	V3.00.90.12	V3.00.81.26 SP0x	For transitions that contain special characters ('\: * <>) it is then no longer possible to edit an action. The editor can't be opened.
400068185	Problem	V3.00.90.12	V3.00.81.26 SP0x	Go To Declaration is not offered for members of function blocks
400068898	Problem	V3.00.90.12	V3.00.81.26 SP0x	No compile error when using retain variables
400067673	Problem	V3.00.90.12	V3.00.81.26 SP0x	Contents of the dialog box "Tools / Options / Editor" not shown correctly in Korean Windows 7.
400069438	Problem	V3.00.90.12	V3.00.81.26 SP0x	Replace in "whole file"
400069234	Problem	V3.00.90.12	V3.00.81.26 SP0x	The Automation Runtime version can't be changed if safety hardware modules are frozen in the current configuration.
400062333	Problem	V3.00.90.12	V3.00.81.24 SP0x	Crash when inserting blocks with a parameter type labeled as "FUNCTION" or "FUNCTION_BLOCK".
400064521	Problem	V3.00.90.12	V3.00.81.24 SP0x	"Save Project As" doesn't work if the VC editor is open for one of the project's objects
400065517	Problem	V3.00.90.12	V3.00.81.23 SP0x	Saved logger records could not be opened if the backtrace contained special characters.
400054197	Problem	V3.00.90.12	V3.00.81.18	LineCoverage not working with high task class cycle times
400047764	Problem	V3.00.90.12	V3.00.80.31 SP01	Vertical scroll bar disappears after "append column"
400068446	Problem	V3.00.90.12	V3.00.80.31 SP01	Performance problem when using SVN
400006757	Problem	V3.00.90.12	ARSG4_2.94.22_V02.94	Problems displaying variable values in the PV Watch window after using the library function DatObjMove
261036	Problem	V3.00.90.11	V3.00.90.10	After the range limits of global array variables are changed, the new ranges aren't initialized
400066294	Problem	V3.00.90.11	V3.00.81.27 SP0x	Incorrect code generation when accessing dynamic VAR_Input variables in a block's actions.
400066847	Problem	V3.00.90.11	V3.00.81.26 SP0x	After axis mappings are converted from 2.x to 3.0, not all axis mappings are displayed.
400066009	New function	V3.00.90.11	V3.00.81.25 SP0x	After the upgrade dialog box is canceled no other configuration can be activated
400067530	Problem	V3.00.90.11	V3.00.81.24 SP0x	Endless loop when using advanced MOV blocks
400064208	Problem	V3.00.90.11	V3.00.81.24 SP0x	CheckDiv functions in the IEC Check library are called for MOD operators
400067024	Problem	V3.00.90.11	V3.00.81.24 SP0x	Initializing function block arrays causes build error 6024.
400063869	Problem	V3.00.90.11	V3.00.81.24 SP0x	"Window -> Close All" only closes NC Test window
400066151	Problem	V3.00.90.11	V3.00.81.24 SP0x	In the Variable Watch, the list of inserted variables is lost
400066230 400068267	Problem	V3.00.90.11	V3.00.81.24 SP0x	Some values of enum variables don't show up in AS Watch.
400066226	Problem	V3.00.90.11	V3.00.81.24 SP0x	List Usage doesn't work for variables with the type ARRAY OF Structure
400066525	Problem	V3.00.90.11	V3.00.81.24 SP0x	Freezing 2003 backplane module causes build error.
400066205	Problem	V3.00.90.11	V3.00.81.24 SP0x	No build error when more local remanent memory is used than was configured.
400060397	Problem	V3.00.90.11	V3.00.81.24 SP0x	During a BUILD in AS the SafeDESIGNER must not be opened.
400065402	New function	V3.00.90.11	V3.00.81.24 SP0x	When a 2.x project is opened, the version info isn't set properly.
400067241 400068754	Problem	V3.00.90.11	V3.00.80.34 SP02	With an existing online connection, fixed node numbers are detected incorrectly
400044280	Problem	V3.00.90.11	V3.00.80.25	Motor parameters are converted incorrectly
400060785	Problem	V3.00.90.11	-	Cross-communication on the SL's BOOL channels is not recognized as an error.
400065675	Problem	V3.00.90.10	V3.00.90.09	Using functions from <math.h> in a static C library causes build error with SG3/SGC
400064561	Problem	V3.00.90.10	V3.00.81.24 SP0x	The required size of the memory area zzInternalMemory sometimes calculated

				incorrectly.
400065147	Problem	V3.00.90.10	V3.00.81.24 SP0x	Warning 1289: Missing BOOL variable 'SFCInit' to initialize action
400065008	Problem	V3.00.90.10	V3.00.81.24 SP0x	For arrays with only one element, the software mismatch dialog box always detects a change.
400064590	Problem	V3.00.90.10	V3.00.81.24 SP0x	Invalid linefeed characters resulted in invalid import
400064495	Problem	V3.00.90.10	V3.00.81.24 SP0x	VAR_IN_OUT parameters added in the wrong order
400063292	Problem	V3.00.90.10	V3.00.81.24 SP0x	Input channels that are mapped multiple times are not saved in the order shown.
400064409	Problem	V3.00.90.10	V3.00.81.24 SP0x	Empty task inserted when an ACOPOSmicro is inserted on an SGC CPU
400064311	Problem	V3.00.90.10	V3.00.81.24 SP0x	Wrong Wizard opened for X20SM* and X67SM* modules with the function model "Ramp"
400065482	Problem	V3.00.90.10	V3.00.81.23 SP0x	Casting REAL or LREAL to whole number data type doesn't shorten to specified data width
400057519	Problem	V3.00.90.10	V3.00.81.23 SP0x	Variables can no longer be dragged into the Watch window.
400060315	Problem	V3.00.90.10	V3.00.81.23 SP0x	Linking identical OPC configurations
400062774	Problem	V3.00.90.10	V3.00.81.18	Didn't stop at breakpoints when CPU had insufficient RAM
400052334	Problem	V3.00.90.10	V3.00.81.18	Variables can no longer be dragged into the Watch window.
400053413	Problem	V3.00.90.10	V3.00.81.18	Error 1144 during build due to changed transfer parameters in the *.fun file
400052839	Problem	V3.00.90.10	V3.00.81.18	Dragging and dropping a selected line sometimes removes a line too many
224820	Projekt	V3.00.90.10	V3.00.81.06 (FR000553)	In the source files of static C/C++ libraries, breakpoint positions are not shown.
400049975	New function	V3.00.90.10	V3.00.80.31 SP01	Automation Studio doesn't show a message when two controllers use the same IP address
400044413	Problem	V3.00.90.10	V3.00.80.28 SP01	When inserting OPC tags into the mapping using the Select Variable dialog box, other tag files are inserted
400036316	Problem	V3.00.90.10	V3.00.80.25	The DiagGetStrInfo function from the AsIODiag library only shows "PLKany" for ACOPOSmulti
400032355	New function	V3.00.90.10	V3.00.80.22	Setting for the maximum number of profiler archive modules
210295	Problem	V3.00.90.10	V3.00.80.19	Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor
400027683	Problem	V3.00.90.10	V3.0.71.31 SP05	Debugger doesn't work via routed POWERLINK connection
400061171	New function	V3.00.90.10	nicht relevant	Syntax highlighting in the CNC program editor not fully available
400061893	Problem	V3.00.90.09	V3.00.90.05	OPC server - continuous RAM consumption
400060886	Problem	V3.00.90.09	V3.00.81.26 SP0x	VAR CONSTANT of function blocks overwritten by initialization of instance variable
400062823	Problem	V3.00.90.09	V3.00.81.24 SP0x	Error(s) occurred while generating cross-reference data
400060330	Problem	V3.00.90.09	V3.00.81.24 SP0x	Variable values only shown in monitor mode after scrolling.
400063244	Problem	V3.00.90.09	V3.00.81.24 SP0x	Open Cyclic/Init/Exit in the software configuration opens the wrong instance
400063410	Problem	V3.00.90.09	V3.00.81.24 SP0x	Double-clicking on error message sends cursor to wrong line
400063251	New function	V3.00.90.09	V3.00.81.24 SP0x	Declaration files added to a library after it has been created cannot be renamed.
400063350	Problem	V3.00.90.09	V3.00.81.24 SP0x	Incorrect dialog box shown during hardware export in Windows 7.
400063546 400065518	Problem	V3.00.90.09	V3.00.81.23 SP0x	Password protected data objects or tasks cannot be compiled on computers running Win7 64-bit
400063594	Problem	V3.00.90.09	V3.00.81.23 SP0x	Import could not handle tabulator characters
400063018	Problem	V3.00.90.09	V3.00.81.22 SP01	MN cannot register data points on the iCN
400057426	Problem	V3.00.90.09	V3.00.81.22 SP01	Go to corresponding delimiter doesn't work if the instruction block contains ";" comments
400061752	Problem	V3.00.90.09	V3.00.81.22 SP01	ACOPOS parameter table: The motor wizard is started when trying to load data from a file
400059997	Problem	V3.00.90.09	V3.00.81.22 SP01	Not able to add a resolver motor to ACOPOSmulti
400058060	Problem	V3.00.90.09	V3.00.81.22 SP01	The I/O mapping from the AS project is not applied to the safety project.
400058790	Problem	V3.00.90.09	V3.00.81.22 SP01	Find text or replace text displayed in the output window for FindInFiles/ReplaceInFiles
400056878	Problem	V3.00.90.09	V3.00.81.18	Wrong title when tracing multiple axes
400050693	Problem	V3.00.90.09	V3.00.81.18	Online connection incorrectly established after local interruption
400054923	Problem	V3.00.90.09	V3.00.81.18	Replace Block sometimes causes display error
400042618	Problem	V3.00.90.09	V3.00.80.28 SP01	"Comment out" button stays grayed out
400040762	Problem	V3.00.90.09	V3.00.80.25	Forced values are not specifically identified.
400048396	Problem	V3.00.90.09	V3.00.80.25	Interface names can't be corrected in the NC configuration.
400042829 400045254 400045023	Problem	V3.00.90.09	V3.00.80.25	Undocked watch window remains out of view.
400056533	Problem	V3.00.90.09	V3.00.80.20	Parameters from function blocks and functions not offered in the Select Variable dialog box.
400062212	Problem	V3.00.90.09	-	Not able to select insert cards correctly from the wizard in 8AC14xxx projects
400060073	Problem	V3.00.90.09	nicht relevant	The contents of the variable declaration file for the SDC controller task deleted
400062521	Problem	V3.00.90.08	V3.00.81.24 SP0x	Error message when double-clicking on cross references from the SFC program
400062128	Problem	V3.00.90.08	V3.00.81.24 SP0x	SmartEdit does not work properly if the editor is opened by double-clicking on the cross reference list.
400060362	Problem	V3.00.90.08	V3.00.81.23 SP0x	Trace recording can't be opened in Windows7 64-bit
400058710	Problem	V3.00.90.08	V3.00.81.22 SP01	The I/O mapping does not support strings
400056018	Problem	V3.00.90.08	V3.00.81.19 SP01	Error message when an OPC tag isn't assigned to a variable
400054966	Problem	V3.00.90.08	V3.00.81.18	"Singularize" generates incorrect array indexes when used in IEC
400056310	Problem	V3.00.90.08	V3.00.81.18	Incorrect channel address calculation for imported Powerlink devices with static mapping and user defined datatypes
400057826	Problem	V3.00.90.08	V3.00.80.31 SP01	OPC tag editor: Incorrect length calculation for structures of a function block instance

400051430	Problem	V3.00.90.08	V3.00.80.31 SP01	Exception in the OPC tag editor when the Singularize function is called
400045196 400045567	Problem	V3.00.90.08	V3.00.80.29 SP01	In the Watch window, sometimes only the numeric values of enumeration data types were shown.
400042819	Problem	V3.00.90.08	V3.00.80.25	Correction in Watch: Structure elements not inserted correctly with certain selections
400056817	New function	V3.00.90.08	V3.0.71.27 SP04	SafeDESIGNER cannot be opened after uploading hardware that contains safe modules.
400059441	Problem	V3.00.90.07	V3.00.81.25 SP0x	The entire project will not be retrieved during project update if one of the files is blocked.
252644	Problem	V3.00.90.07	V3.00.81.24 SP0x	Incorrect code generation for "stretched" MOV blocks
400055434	Problem	V3.00.90.07	V3.00.81.24 SP0x	For ACOPOSmicro, not all hardware module description files are updated during an upgrade.
400059910	Problem	V3.00.90.07	V3.00.81.23 SP0x	The "Modules" window in the logger was not hidden automatically
400060636	Problem	V3.00.90.07	V3.00.81.23 SP0x	Incorrect code is sometimes generated for complex networks.
400059518	Problem	V3.00.90.07	V3.00.81.23 SP0x	When importing/exporting hardware modules, the I/O mapping descriptions are lost.
400058791	New function	V3.00.90.07	V3.00.81.22 SP01	The measurement cursor is displayed by default.
400058178	Problem	V3.00.90.07	V3.00.81.22 SP01	Arrays with a start index <= 0 cause problems in the variable selection window for the variable trace.
400061731	Problem	V3.00.90.07	V3.00.81.22 SP01	Poor system response times depending on the quality of the connection to the file server or VCS server
400056776 400057107 400059697	New function	V3.00.90.07	V3.00.81.22 SP01	The IP address of the ARsim can't be set to 0.0.0.0
400061566	Problem	V3.00.90.07	V3.00.81.22 SP01	Interface settings are set to defaults after hardware import.
400058790	New function	V3.00.90.07	V3.00.81.22 SP01	Find text or replace text displayed in the output window for FindInFiles/ReplaceInFiles
400058413 400059749	Problem	V3.00.90.07	V3.00.81.19 SP01	Network Command Trace shortcut menu displayed incorrectly
400057278	Problem	V3.00.90.07	V3.00.81.18	Slow system response when opening the connection dialog box between Safety CPUs
400051153	Problem	V3.00.90.07	V3.00.80.31 SP01	Error generating the header file for REAL constants < 1.0e-5
400048512	Problem	V3.00.90.07	V3.00.80.31 SP01	It is not possible to use C variables larger than 16 MB.
400046363	Problem	V3.00.90.07	V3.00.80.29 SP01	Declaration of arrays with sizeof incorrect
400046834 400050679 400055914 400053351	Problem	V3.00.90.07	V3.00.80.28 SP01	Additional information isn't displayed in Windows 7 and Windows Vista
400034601 400042798 400048781 400052626	Problem	V3.00.90.07	V3.00.80.25	ENUM data types in trace
400039342	Problem	V3.00.90.07	V3.00.80.25	The option "Store Nc Operating system on target" doesn't work for SG3 and SGC targets
153671	Problem	V3.00.90.07	V3.00.80.10	Forced variables not shown as forced after connection is interrupted
400025794	New function	V3.00.90.07	V3.0.71.30 SP05	When Automation Studio starts, it always tries to open the last opened project
250531	Problem	V3.00.90.06	V3.00.90.05	Error generating the header file for REAL constants >= 4e+15
400055637	Problem	V3.00.90.06	V3.00.90.05	Variable displayed with the wrong type.
400056381	Problem	V3.00.90.06	V3.00.90.04	Priority of CANopen master can be configured
400053732	Problem	V3.00.90.06	V3.00.90.04	Priority of Profibus master can be configured
400054118	Problem	V3.00.90.06	V3.00.90.03	With an existing online connection, fixed node numbers are detected incorrectly
400059705 400060245	Problem	V3.00.90.06	V3.00.81.23 SP0x	Incorrect offsets sometimes generated for global variables
400060503	Problem	V3.00.90.06	V3.00.81.23 SP0x	Incorrect code generation for "stretched" MOV blocks
400056569	Problem	V3.00.90.06	V3.00.81.22 SP01	Bit 30 of a COB-ID was not properly handled by the CAN configuration editor
400056892	Problem	V3.00.90.06	V3.00.81.22 SP01	C++: Failed allocation of bur_heap_size memory gives no Warning/Error
400059327	Problem	V3.00.90.06	V3.00.81.22 SP01	For ARwin, the setting "Preserve permanent PV memory ..." is not preserved.
400058276	Problem	V3.00.90.06	V3.00.81.22 SP01	Special characters replaced by question marks during import
400051241	New function	V3.00.90.06	V3.00.81.18	No positive feedback for Check Offsets
400055024	Problem	V3.00.90.06	V3.00.80.31 SP01	Changing the node number of I/O modules results in incorrect mapping.
400058543	Problem	V3.00.90.05	V3.00.81.22 SP01	AS crashes when monitor mode is activated
400057419	Problem	V3.00.90.05	V3.00.81.22 SP01	If the configuration and the PLC have the same name, then modules can't be inserted.
400051553	Problem	V3.00.90.05	V3.00.81.19 SP01	Changing constants in ANSI C libraries results in the respective program not being generated
400057092	Problem	V3.00.90.05	V3.00.81.18	Crash when parameters are entered in extra device settings without separator
400055476	Problem	V3.00.90.05	V3.00.81.18	Object names that contain a comma are not displayed in the software configuration monitor
400056949	Problem	V3.00.90.05	V3.00.81.18	*.hpp files are not exported with "Export Source Library"
400054960	Problem	V3.00.90.05	V3.00.81.18	Project containing frozen fieldbus devices can't be built.
400056399	Problem	V3.00.90.05	V3.00.81.18	Slow system response when opening the connection dialog box between Safety CPUs
400054338	Problem	V3.00.90.05	V3.00.80.31 SP01	NC Test can't be opened
400047860	Problem	V3.00.90.05	V3.00.80.31 SP01	Cam profile editor remains locked after turning off monitor mode.
400042992 400043877 400048435	Problem	V3.00.90.05	V3.00.80.25	USB device can't be deleted

400022586 , 400030657	Problem	V3.00.90.05	V3.0.71.27 UP04	Inserting an SI4100 changes amrc0cfg
244595	Problem	V3.00.90.04	V3.00.90.03	Static hybrid libraries can't be generated in projects that have a space in the path.
400054562	Problem	V3.00.90.04	V3.00.90.03	Malfunction of CheckBounds
244671	Problem	V3.00.90.04	V3.00.90.03	Build doesn't detect changed constant
244250	Problem	V3.00.90.04	V3.00.90.03	After performing "Clear Data", the logger data is deleted, but not refreshed
400055263	Problem	V3.00.90.04	V3.00.90.03	Sample files that are linked to on Help pages can't be saved.
400055860	Problem	V3.00.90.04	V3.00.81.22 SP01	Error "illegal option -- O" when generating static C/C++ library
400056134	New function	V3.00.90.04	V3.00.81.22 SP01	Errors should also be acknowledged with SFCQuitError when SFCPause = TRUE
400056231	Problem	V3.00.90.04	V3.00.81.20 SP01	Cyclic program won't open
400056008	Problem	V3.00.90.04	V3.00.81.18	Modem description string with single quote doesn't work
245404	Problem	V3.00.90.04	V3.00.81.18	Relaying contacts and coils to a MOVE output causes incorrect functionality.
400055093	Problem	V3.00.90.04	V3.00.80.33 SP02	Undeclared structure element is not detected as an error.
400055457	Problem	V3.00.90.04	V3.00.80.33 SP02	Changing the prototyping of the function block doesn't cause the task to be recompiled
243470	Problem	V3.00.90.04	V3.00.80.33 SP02	Malfunction in Select Variable window for making I/O assignments
243455	Problem	V3.00.90.04	V3.00.80.33 SP02	Array elements are shown multiple times
400040120	Problem	V3.00.90.03	V3.00.80.25	When adding existing objects, the object description is not added
400037337	Problem	V3.00.90.02	V3.0.71.34 SP06	Error "error 9234: Error creating make" if the active configuration contains invalid .br modules
400009868	Problem	V3.00.90.02	V3.0.71.16 SP01	Sorting order cleared when a new entry appears in the logger or when the logger is reopened.
400069448	Problem	V3.00.81.30 SP0x	V3.00.81.27 SP0x	Memory overwritten when two local function blocks with the same name are used
400071811	Problem	V3.00.81.30 SP0x	V3.00.81.27 SP0x	Incorrect handling of empty block connections in monitor mode
400069458	Problem	V3.00.81.30 SP0x	V3.00.81.27 SP0x	Incorrect code generated when a block instance with EN/ENO is used multiple times
262205	Problem	V3.00.81.29 SP0x	V3.00.90.11	Using MOV block with correct syntax causes build error.
400068843	Problem	V3.00.81.29 SP0x	V3.00.81.28 SP0x	Error with COB-ID calculation
400068093	Problem	V3.00.81.29 SP0x	V3.00.81.26 SP0x	Build terminates unexpectedly
400067398	Problem	V3.00.81.29 SP0x	V3.00.81.26 SP0x	Different values displayed in the Ladder Diagram monitor and in the PV watch
400068898	Problem	V3.00.81.29 SP0x	V3.00.81.26 SP0x	No compile error when using retain variables
400068444	Problem	V3.00.81.29 SP0x	V3.00.81.26 SP0x	With AS 3.00.81.26.SP0x, offsets are assigned incorrectly under some circumstances
400069234	Problem	V3.00.81.29 SP0x	V3.00.81.26 SP0x	The Automation Runtime version can't be changed if safety hardware modules are frozen in the current configuration.
400066267	Problem	V3.00.81.29 SP0x	V3.00.81.24 SP0x	MOV block generates output even though EN = FALSE
400067241 , 400068754	Problem	V3.00.81.29 SP0x	V3.00.80.34 SP02	With an existing online connection, fixed node numbers are detected incorrectly
400066294	Problem	V3.00.81.28 SP0x	V3.00.81.27 SP0x	Incorrect code generation when accessing dynamic VAR_Input variables in a block's actions.
261315	Problem	V3.00.81.28 SP0x	V3.00.81.27 SP0x	After the range limits of global array variables are changed, the new ranges aren't initialized
400066787	Problem	V3.00.81.28 SP0x	V3.00.81.26 SP0x	EDGE, EDGENEG, EDGEPOS cause Error 1179
400064208	Problem	V3.00.81.28 SP0x	V3.00.81.24 SP0x	CheckDiv functions in the IEC Check library are called for MOD operators
400067530 , 400067286	Problem	V3.00.81.28 SP0x	V3.00.81.24 SP0x	Endless loop when using advanced MOV blocks
400067024	Problem	V3.00.81.28 SP0x	V3.00.81.24 SP0x	Initializing function block arrays causes build error 6024.
400066230	Problem	V3.00.81.28 SP0x	V3.00.81.24 SP0x	Some values of enum variables don't show up in AS Watch.
258775	Problem	V3.00.81.27 SP0x	V3.00.81.27 SP0x	Projects with function blocks implemented in SFC can't be built.
400064561	Problem	V3.00.81.27 SP0x	V3.00.81.24 SP0x	The required size of the memory area zzInternalMemory sometimes calculated incorrectly.
400065147	Problem	V3.00.81.27 SP0x	V3.00.81.24 SP0x	Warning 1289: Missing BOOL variable 'SFCInIt' to initialize action
400064590	Problem	V3.00.81.27 SP0x	V3.00.81.24 SP0x	Invalid linefeed characters resulted in invalid import
400064495	Problem	V3.00.81.27 SP0x	V3.00.81.24 SP0x	VAR_IN_OUT parameters added in the wrong order
400063244	Problem	V3.00.81.27 SP0x	V3.00.81.24 SP0x	Open Cyclic/Init/Exit in the software configuration opens the wrong instance
400063594	Problem	V3.00.81.27 SP0x	V3.00.81.23 SP0x	Import could not handle tabulator characters
400063018	Problem	V3.00.81.27 SP0x	V3.00.81.22 SP01	Managed Node cannot register data points on the iCN
400053822	Problem	V3.00.81.27 SP0x	V3.00.80.25	It is possible to create tasks that have a comma in their name
400061893	Problem	V3.00.81.26 SP0x	V3.00.90.05	OPC server - continuous RAM consumption
252645	Problem	V3.00.81.26 SP0x	V3.00.81.24 SP0x	Incorrect code generation for "stretched" MOV blocks
400062128	Problem	V3.00.81.26 SP0x	V3.00.81.24 SP0x	SmartEdit does not work properly if the editor is opened by double-clicking on the cross reference list.
400061524	Problem	V3.00.81.26 SP0x	V3.00.81.24 SP02	80VD100PD.C000-01 cannot be operated via NC Mapping Table
400060207	Problem	V3.00.81.26 SP0x	V3.00.81.23 SP0x	Export device description is not supported
400058178	Problem	V3.00.81.26 SP0x	V3.00.81.22 SP01	Arrays with a start index <> 0 cause problems in the variable selection window for the variable trace.
400058060	Problem	V3.00.81.26 SP0x	V3.00.81.22 SP01	The I/O mapping from the AS project is not applied to the safety project.
400056381	Problem	V3.00.81.25 SP0x	V3.00.81.25 SP0x	Priority of CANopen master can be configured
400059705 , 400060245	Problem	V3.00.81.25 SP0x	V3.00.81.23 SP0x	Incorrect offsets sometimes generated for global variables
400060636	Problem	V3.00.81.25 SP0x	V3.00.81.23 SP0x	Incorrect code is sometimes generated for complex networks.
400060503	Problem	V3.00.81.25 SP0x	V3.00.81.23 SP0x	Error message: Error 1352 : LD expected.
400058095	Problem	V3.00.81.25 SP0x	V3.00.81.22 SP01	Changing a header file doesn't cause library to be generated

400056569	Problem	V3.00.81.25 SP0x	V3.00.81.22 SP01	Bit 30 of a COB-ID was not properly handled by the CAN configuration editor
400056776 400057107 400059697	New function	V3.00.81.25 SP0x	V3.00.81.22 SP01	The IP address of the ARsim can't be set to 0.0.0.0
400054966	Problem	V3.00.81.25 SP0x	V3.00.81.18	"Singularize" generates incorrect array indexes when used in IEC
400055024	Problem	V3.00.81.25 SP0x	V3.00.80.31 SP01	Changing the node number of I/O modules results in incorrect mapping.
400057826	Problem	V3.00.81.25 SP0x	V3.00.80.31 SP01	OPC tag editor: Incorrect length calculation for structures of a function block instance
400021642 400022422 400036543	Problem	V3.00.81.25 SP0x	V3.0.71.27 SP04	Modbus TCP configuration has errors after upgrading AS
400058543	Problem	V3.00.81.24 SP0x	V3.00.81.22 SP01	AS crashes when monitor mode is activated
400058271	Problem	V3.00.81.24 SP0x	V3.00.81.22 SP01	No values are displayed in Ladder Diagram steps when in monitor mode
400059327	Problem	V3.00.81.24 SP0x	V3.00.81.22 SP01	For ARwin, the setting "Preserve permanent PV memory ..." is not preserved.
400055860	Problem	V3.00.81.24 SP0x	V3.00.81.18	Error "illegal option -- O" when generating static C/C++ library
400056878	Problem	V3.00.81.24 SP0x	V3.00.81.18	Wrong title when tracing multiple axes
400057278	Problem	V3.00.81.24 SP0x	V3.00.81.18	Slow system response when opening the connection dialog box between Safety CPUs
244585	Problem	V3.00.81.23 SP0x	V3.00.81.22 SP01	Static hybrid libraries can't be generated in projects that have a space in the path.
245320	Problem	V3.00.81.23 SP0x	V3.00.81.22 SP01	Build doesn't detect changed constant
400054836	Problem	V3.00.81.23 SP0x	V3.00.81.21 SP01	Crash in monitor mode if no more memory available
400057092	Problem	V3.00.81.23 SP0x	V3.00.81.18	Crash when parameters are entered in extra device settings without separator
400056008	Problem	V3.00.81.23 SP0x	V3.00.81.18	Modem description string with single quote doesn't work
245425	Problem	V3.00.81.23 SP0x	V3.00.81.18	Relaying contacts and coils to a MOVE output causes incorrect functionality.
400056949	Problem	V3.00.81.23 SP0x	V3.00.81.18	*.hpp files are not exported with "Export Source Library"
400054960	Problem	V3.00.81.23 SP0x	V3.00.81.18	Project containing frozen fieldbus devices can't be built.
400055434	Problem	V3.00.81.23 SP0x	V3.00.81.18	4PP035.E300 displayed incorrectly in the physical view in AS 3.0.81.18
400055457	Problem	V3.00.81.23 SP0x	V3.00.80.33 SP02	Changing the prototyping of the function block doesn't cause the task to be recompiled
243065	Problem	V3.00.81.23 SP0x	V3.00.80.33 SP02	After performing "Clear Data", the logger data is deleted, but not refreshed
400051725	Problem	V3.00.81.23 SP0x	V3.00.80.31 SP01	I/O Mapping editor does not show any channels for imported CANopen device
400054562	Problem	V3.00.81.22 SP01	V3.00.81.20 SP01	Malfunction of CheckBounds
400055263	Problem	V3.00.81.22 SP01	V3.00.81.18	Sample files that are linked to on Help pages can't be saved.
400053842	Problem	V3.00.81.21 SP01	V3.00.81.18	BR.AS.TaskBuilder.exe crashes when function blocks call each other recursively
400051162	Problem	V3.00.81.20 SP01	V3.00.81.18	Error 6009: Internal: Writing/calculating init entry, variable RootPV
400052527	Problem	V3.00.81.20 SP01	V3.00.81.18	When the name of the library is changed, referenced files with the same name are also renamed.
400050529 400058357	Problem	V3.00.81.19 SP01	V3.00.81.18	Identical B&R Automation Basic code returns different results
400051044	Problem	V3.00.81.19 SP01	V3.00.81.18	In the Profiler, tasks are suddenly shown as "UnknownCyclicTask" after being downloaded
400050701	Problem	V3.00.81.19 SP01	V3.00.81.18	Setting of 3 seconds for ConnectionTimeout too small
400050541	Problem	V3.00.81.19 SP01	V3.00.81.18	"Next Bookmark" deletes selected text
400051093	Problem	V3.00.81.19 SP01	V3.00.81.18	Crash after inserting a new network in front of an empty network
400050702	Problem	V3.00.81.19 SP01	V3.00.81.15	Setting breakpoints by double-clicking in the editor gutter
239225	Problem	V3.00.81.19 SP01	V3.00.80.31 SP01	Target system modules are not shown for the software configuration when in monitor mode.
400051211	Problem	V3.00.81.19 SP01	V3.00.71.34 SP06	Networks with multiple ENO outputs linked by OR operators to an EN input can't be compiled in some cases
400072324	Problem	-	V3.00.81.27 SP0x	NodeSwitch channel of CAN interfaces with disabled CAN I/O
400072324	Problem	-	V3.00.81.27 SP0x	NodeSwitch channel of CAN interfaces with disabled CAN I/O
400073915	Problem	-	V3.00.81.27 SP0x	Incorrect code generation when mapping an expression to a bit
400073915	Problem	-	V3.00.81.27 SP0x	Incorrect code generation when mapping an expression to a bit
400071811	Problem	-	V3.00.81.27 SP0x	Incorrect handling of empty block connections in monitor mode
400072054	Problem	-	V3.00.81.24 SP0x	CNC Trace: Some NC object names in the NC Trace data points are incorrect
400056193	Problem	-	V3.00.81.18	Projects with hardware modules that contain µ in their channel descriptions can not be build in the Chinese version of Windows.
400056310	Problem	-	V3.00.81.18	Incorrect channel address calculation for imported Powerlink devices with static mapping and user defined datatypes
400054385	Problem	-	V3.00.80.30 SP01	FW1.1.14.2 of the LS 182.6-1 tends to invalid Datapoints
225956	Problem	-	V3.00.80.28 (FR000531)	Changing a PV or structure type member from value type to reference is not detected reliably in CopyMode.
255560	Problem	-	V3.00.80.19	Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor
255565	Problem	-	V3.00.80.19	Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor
255575	Problem	-	V3.00.80.19	Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor
255570	Problem	-	V3.00.80.19	Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor
400062152	Problem	ARSG4_3.07.3_C03.07	V3.00.81.24 SP0x	Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem

1A4600.10-2 Automation Runtime ARwin, ARNC0

ID	valuation	solved since	known since	Description
180535	Problem	-	1.0.0.0	New I/O channel "SystemTime"

3IF762.9

ID	valuation	solved since	known since	Description
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3IF779.9

ID	valuation	solved since	known since	Description
245365	Problem	1.0.2.0	1.0.2.0	Error correction in the FPGA UART implementation

3IF782.9-1

ID	valuation	solved since	known since	Description
265775	Problem	-	1.1.13.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
262397	Problem	-	1.1.13.0	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
256970	New function	-	1.1.12.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256820	New function	-	1.1.12.0	POWERLINK: LinkOK data point added.
400057319	Problem	-	1.1.12.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
243507	Problem	-	1.1.12.0	POWERLINK: The net time is not always transferred correctly to the application.
265665	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

3IF786.9-1

ID	valuation	solved since	known since	Description
265875	Problem	-	1.1.13.0	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
256975	New function	-	1.1.12.1	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256825	New function	-	1.1.12.1	POWERLINK: LinkOK data point added.
256920	Problem	-	1.1.12.1	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.1.12.1	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
265670	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

3IF787.9-1

ID	valuation	solved since	known since	Description
256980	New function	-	1.1.12.1	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256830	New function	-	1.1.12.1	POWERLINK: LinkOK data point added.
265880	Problem	-	1.1.12.1	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
265780	Problem	-	1.1.12.1	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
256925	Problem	-	1.1.12.1	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.1.12.1	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
265675	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

3IF789.9-1

ID	valuation	solved since	known since	Description
256985	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256835	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265785	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265680	Problem	-	1.0.15.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400057319	Problem	-	1.0.15.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
230770	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

3IF789.9-11

ID	valuation	solved since	known since	Description
265890	Problem	-	1.1.5.1	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
265790	Problem	-	1.1.5.1	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
256990	New function	-	1.1.12.1	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256840	New function	-	1.1.12.1	POWERLINK: LinkOK data point added.
256930	Problem	-	1.1.12.1	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.1.12.1	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
265685	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

3IF797.9-1

ID	valuation	solved since	known since	Description
245210	Problem	1.0.2.0	1.0.2.0	Error correction in the FPGA UART implementation

3IF7E3.9

ID	valuation	solved since	known since	Description
257470	New function	1.0.2.0	1.0.2.0	Vendor ID changed
240745	New function	1.0.1.0	1.0.0.1	Interface module PROFINET RT Slave, Configuration of netX cycle time

4D1164.00-590

ID	valuation	solved since	known since	Description
245890	Projekt	-	-	Driver added to HWC

4D1166.00-490

ID	valuation	solved since	known since	Description
245900	Projekt	-	-	Driver added to HWC

4PP065.0351-P74

ID	valuation	solved since	known since	Description
261790	New function	-	-	POWERLINK: LinkOK data point added.
236170	New function	-	-	Installation of the upgrade only possible from AS 3.0.80.25
400057947	Problem	-	-	Keys work in terminal mode

4PP065.0351-X74

ID	valuation	solved since	known since	Description
236250	Problem	-	V3.00.80.31 SP01	Error at terminal mode corrected
400057947	Problem	-	-	Keys work in terminal mode

4PP065.0571-K01

ID	valuation	solved since	known since	Description
240150	Problem	-	-	4PP065.0571-K01 cannot be longer inserted in AS as standard panel

4PP065.0571-K05

ID	valuation	solved since	known since	Description
236880	Problem	-	V3.00.80.31 SP01	Error at terminal mode corrected
240145	Problem	-	-	4PP065.0571-K05 cannot be longer inserted in AS as standard panel

4PP065.0571-K07

ID	valuation	solved since	known since	Description
240155	Problem	-	-	4PP065.0571-K07 cannot be longer inserted in AS as standard panel

4PP065.0571-P74

ID	valuation	solved since	known since	Description
262385	New function	-	-	POWERLINK: LinkOK data point added.
236165	New function	-	-	Installation of the upgrade only possible from AS 3.0.80.25

4PP065.0571-P74F

ID	valuation	solved since	known since	Description
262405	New function	-	-	POWERLINK: LinkOK data point added.

4PP065.IF33-1

ID	valuation	solved since	known since	Description
240760	New function	-	-	Documentation added

4PP480.1043-75

ID	valuation	solved since	known since	Description
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4XP0000.00-K41

ID	valuation	solved since	known since	Description
254370	Projekt	-	1.0.0.0	Support of SGC 4XP0000.00-K41

5AC600.CANI-00

ID	valuation	solved since	known since	Description
151335	Problem	-	-	solved problem

5ACPCC.MPL0-00

ID	valuation	solved since	known since	Description
253700	Problem	-	-	Add-on "Modul-OK"
250445	Problem	-	-	Add-on "Modul-OK"

5ACPCI.XCOM-00

ID	valuation	solved since	known since	Description
270080	Problem	-	-	CANopen master doesn't write output data to all slaves
240495	Problem	-	-	Configuration of netX cycle time

5ACPCI.XCOS-00

ID	valuation	solved since	known since	Description
240505	Problem	-	-	Configuration of netX cycle time

5ACPCI.XDNM-00

ID	valuation	solved since	known since	Description
240510	Problem	-	-	Configuration of netX cycle time

5ACPCI.XDNS-00

ID	valuation	solved since	known since	Description
240515	Problem	-	-	Configuration of netX cycle time

5ACPCI.XDPM-00

ID	valuation	solved since	known since	Description
240460	Problem	-	-	Configuration of netX cycle time

5ACPCI.XDPS-00

ID	valuation	solved since	known since	Description
240465	Problem	-	-	Configuration of netX cycle time

5ACPCI.XPNM-00

ID	valuation	solved since	known since	Description
240475	Problem	-	-	Configuration of netX cycle time

5ACPCI.XPNS-00

ID	valuation	solved since	known since	Description
240485	Problem	-	-	Configuration of netX cycle time

5LS166.6

ID	valuation	solved since	known since	Description
248345	Problem	1.0.2.0	1.0.2.0	Error correction in the FPGA UART implementation

5LS182.6-1

ID	valuation	solved since	known since	Description
256910	New function	-	1.1.16.0	POWERLINK: LinkOK data point added.
265885	Problem	-	1.1.16.0	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
265360	Problem	-	1.1.16.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
256950	Problem	-	1.1.16.0	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.1.16.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

265690	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400054385	Problem	1.1.16.0	V3.00.80.30 SP01	FW1.1.14.2 of the LS 182.6-1 tends to invalid Datapoints
243767	New function	1.1.16.0	nicht relevant	Parameter "OutputDMAMargin" activated for B3.07
241602	New function	1.1.14.2	ARSG4_2.95.22_V02.95	PCI diagnosis and new data points added; + Synchronization problem in TK#1 fixed
400046653	Problem	1.1.13.1	1.1.12.0	Reset behavior improved and new data points created
230835	Problem	1.1.12.0	1.1.9.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

5LS182.6-2

ID	valuation	solved since	known since	Description
265365	Problem	-	1.1.0.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265895	Problem	-	1.0.4.0	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
256955	Problem	-	1.0.4.0	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.0.4.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
265650	Problem	1.1.0.2	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400054829	Problem	1.0.4.0	1.0.3.0	PCI diagnosis and new data points added; + Synchronization problem in TK#1 fixed
237685	Problem	1.0.3.0	1.0.2.0	Reset behavior improved and new data points created
234925	Problem	1.0.2.0	1.0.1.0	New POWERLINK firmware V106

5LS187.6-1

ID	valuation	solved since	known since	Description
257050	New function	-	1.1.13.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256915	New function	-	1.1.13.0	POWERLINK: LinkOK data point added.
265900	Problem	-	1.1.13.0	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
265795	Problem	-	1.1.13.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
256960	Problem	-	1.1.13.0	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.1.13.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
265695	Problem	-	1.1.10.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
230840	Problem	1.1.12.0	1.1.9.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400041497	Problem	1.1.12.0	1.1.12.0	Problems starting CAN-FW corrected

5LS189.6-1

ID	valuation	solved since	known since	Description
257055	New function	-	1.1.13.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
265905	Problem	-	1.1.13.0	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
265800	Problem	-	1.1.13.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
256965	Problem	-	1.1.13.0	POWERLINK: The net time is not always transferred correctly to the application.
265700	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
240320	Problem	1.1.13.0	1.1.12.1	Reset behavior improved and new data points created
235120	New function	1.1.12.1	1.1.12.0	LinkOK Datapoint available.

5PC600.E855-01

ID	valuation	solved since	known since	Description
246005	New function	-	-	Support 5PC600.E855-01

5PC600.E855-02

ID	valuation	solved since	known since	Description
246050	New function	-	-	Support 5PC600.E855-02

5PC600.E855-03

ID	valuation	solved since	known since	Description
246010	New function	-	-	Support 5PC600.E855-03

5PC600.E855-04

ID	valuation	solved since	known since	Description
246015	New function	-	-	Support 5PC600.E855-04

5PC600.E855-05

ID	valuation	solved since	known since	Description
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246055	New function	-	-	Support 5PC600.E855-05
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5PC600.SE00-00

ID	valuation	solved since	known since	Description
267150	New function	-	-	Support for USB keyboards
242900	Problem	-	-	POWERLINK Firmware and I/O Datapoint
223850	Problem	-	-	New PLK and new CAN firmware

5PC600.SE00-01

ID	valuation	solved since	known since	Description
267155	New function	-	-	Support for USB keyboards
242920	Problem	-	-	POWERLINK Firmware and I/O Datapoint
224155	Problem	-	-	New PLK and new CAN firmware

5PC600.SE00-02

ID	valuation	solved since	known since	Description
267160	New function	-	-	Support for USB keyboards
242925	Problem	-	-	POWERLINK Firmware and I/O Datapoint
224315	Problem	-	-	New PLK and new CAN firmware

5PC600.SF03-00

ID	valuation	solved since	known since	Description
267555	New function	-	-	Support for USB keyboards
168895	Problem	-	-	solved problem

5PC600.SX01-00

ID	valuation	solved since	known since	Description
267180	New function	-	-	Support for USB keyboards
226385	Problem	-	-	One additional PCI slot inserted

5PC600.SX02-00

ID	valuation	solved since	known since	Description
267535	New function	-	-	Support for USB keyboards
225950	Problem	-	-	One additional PCI slot inserted

5PC600.SX02-01

ID	valuation	solved since	known since	Description
267540	New function	-	-	Support for USB keyboards
225955	Problem	-	-	One additional PCI slot inserted

5PC600.SX05-00

ID	valuation	solved since	known since	Description
267545	New function	-	-	Support for USB keyboards
226405	Problem	-	-	One additional PCI slot inserted

5PC600.SX05-01

ID	valuation	solved since	known since	Description
267550	New function	-	-	Support for USB keyboards
226420	Problem	-	-	One additional PCI slot inserted

5PC720.1043-00

ID	valuation	solved since	known since	Description
267630	New function	-	-	Support for USB keyboards

5PC720.1043-01

ID	valuation	solved since	known since	Description
267635	New function	-	-	Support for USB keyboards
168710	Problem	-	-	Enlargement

5PC720.1214-00

ID	valuation	solved since	known since	Description
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267640	New function	-	-	Support for USB keyboards
168720	Problem	-	-	Enlargement

5PC720.1214-01

ID	valuation	solved since	known since	Description
267645	New function	-	-	Support for USB keyboards
168725	Problem	-	-	Enlargement

5PC720.1505-00

ID	valuation	solved since	known since	Description
267650	New function	-	-	Support for USB keyboards
168840	Problem	-	-	Enlargement

5PC720.1505-01

ID	valuation	solved since	known since	Description
267655	New function	-	-	Support for USB keyboards
168845	Problem	-	-	Enlargement

5PC720.1505-02

ID	valuation	solved since	known since	Description
267660	New function	-	-	Support for USB keyboards
168850	Problem	-	-	Enlargement

5PC720.1706-00

ID	valuation	solved since	known since	Description
267665	New function	-	-	Support for USB keyboards
168855	Problem	-	-	Enlargement

5PC720.1906-00

ID	valuation	solved since	known since	Description
267670	New function	-	-	Support for USB keyboards
168865	Problem	-	-	Enlargement

5PC781.1043-00

ID	valuation	solved since	known since	Description
267675	New function	-	-	Support for USB keyboards
168870	Problem	-	-	Enlargement

5PC781.1505-00

ID	valuation	solved since	known since	Description
267680	New function	-	-	Support for USB keyboards
168875	Problem	-	-	Enlargement

5PC782.1043-00

ID	valuation	solved since	known since	Description
267685	New function	-	-	Support for USB keyboards
168885	Problem	-	-	Enlargement

5PC800.B945-01

ID	valuation	solved since	known since	Description
400054707	Problem	-	V3.00.81.19 SP01	Windows Terminal Funktion
246060	New function	-	-	Support 5PC800.B945-01

5PC800.B945-02

ID	valuation	solved since	known since	Description
246065	New function	-	-	Support 5PC800.B945-02

5PC800.B945-03

ID	valuation	solved since	known since	Description
246130	New function	-	-	Support 5PC800.B945-03

5PC800.B945-04

ID	valuation	solved since	known since	Description
246170	New function	-	-	Support 5PC800.B945-04

5PC800.B945-10

ID	valuation	solved since	known since	Description
251740	New function	-	-	Support 5PC800.B945-10

5PC800.B945-11

ID	valuation	solved since	known since	Description
251745	New function	-	-	Support 5PC800.B945-11

5PC800.B945-13

ID	valuation	solved since	known since	Description
251755	New function	-	-	Support 5PC800.B945-13

5PC800.B945-14

ID	valuation	solved since	known since	Description
251765	New function	-	-	Support 5PC800.B945-14

5PC810.SX01-00

ID	valuation	solved since	known since	Description
267060	New function	-	-	Support for USB keyboards

5PC810.SX02-00

ID	valuation	solved since	known since	Description
267115	New function	-	-	Support for USB keyboards

5PC810.SX03-00

ID	valuation	solved since	known since	Description
267140	New function	-	-	Support for USB keyboards

5PC810.SX05-00

ID	valuation	solved since	known since	Description
267145	New function	-	-	Support for USB keyboards

5PC820.1505-00

ID	valuation	solved since	known since	Description
267025	New function	-	-	Support for USB keyboards
234390	Problem	-	-	Standard PCI slots and PCI express compact slot seperated

5PC820.1906-00

ID	valuation	solved since	known since	Description
267020	New function	-	-	Support for USB keyboards
264920	New function	-	-	Problems with I/O mapping with AR < A3.08
262225	New function	-	-	Support for Windows terminal mode

5PC820.SX01-00

ID	valuation	solved since	known since	Description
267005	New function	-	-	Support for USB keyboards
242935	Problem	-	-	POWERLINK Firmware and I/O Datapoint
220380	Problem	-	-	HWC BugFix and new PLK firmware

5PC820.SX01-01

ID	valuation	solved since	known since	Description
267010	New function	-	-	Support for USB keyboards
242940	Problem	-	-	POWERLINK Firmware and I/O Datapoint
224525	Problem	-	-	HWC BugFix and new PLK firmware

5PP520.0573-00

ID	valuation	solved since	known since	Description
266825	New function	-	-	Error in the addressing
266720	New function	-	-	Support for USB keyboards
259035	New function	-	-	Problems with terminal modes

5PP520.0702-00

ID	valuation	solved since	known since	Description
266845	New function	-	-	Error in the addressing
266761	New function	-	-	Support for USB keyboards
259170	New function	-	-	Problems with terminal modes
260550	Problem	-	-	Problem with windows terminal mode

5PP520.1043-00

ID	valuation	solved since	known since	Description
266865	New function	-	-	Error in the addressing
266781	New function	-	-	Support for USB keyboards
266595	New function	-	-	Support for customized devices
260610	New function	-	-	Problems with terminal modes

5PP520.1214-00

ID	valuation	solved since	known since	Description
266930	New function	-	-	Support for USB keyboards
260495	New function	-	-	Problems with terminal modes

5PP520.1505-00

ID	valuation	solved since	known since	Description
266935	New function	-	-	Support for USB keyboards
260665	Problem	-	-	Problems with terminal modes

5PP551.0573-00

ID	valuation	solved since	known since	Description
266940	New function	-	-	Support for USB keyboards
262255	New function	-	-	Correction of LED layout
261635	New function	-	-	Correction of incorrect key assignment
261390	New function	-	-	Problems with terminal modes

5PP552.0573-00

ID	valuation	solved since	known since	Description
266945	New function	-	-	Support for USB keyboards
262220	New function	-	-	Problem with ARwin & embedded terminal client
261645	New function	-	-	Correction of incorrect key assignment
261240	New function	-	-	Problems with terminal modes

5PP580.1043-00

ID	valuation	solved since	known since	Description
266950	New function	-	-	Support for USB keyboards
263101	New function	-	-	Preview bitmaps corrected

5PP580.1505-00

ID	valuation	solved since	known since	Description
266990	New function	-	-	Support for USB keyboards
263096	New function	-	-	Preview bitmaps corrected
262905	New function	-	-	Wrong bitmap is displayed
261400	New function	-	-	Problems with terminal modes

5PP581.1043-00

ID	valuation	solved since	known since	Description
266955	New function	-	-	Support for USB keyboards
261245	New function	-	-	Problems with terminal modes

5PP581.1505-00

ID	valuation	solved since	known since	Description
266995	New function	-	-	Support for USB keyboards
260440	New function	-	-	Problem with embedded terminal mode
260330	New function	-	-	Problem with windows terminal mode
258955	New function	-	-	Problems with terminal modes

5PP582.1043-00

ID	valuation	solved since	known since	Description
266985	New function	-	-	Support for USB keyboards
261255	New function	-	-	Problems with terminal modes

5PP5CP.US15-00

ID	valuation	solved since	known since	Description
267420	New function	-	-	Changed hardware description file and new firmware
258490	New function	-	-	Problems with LEDs of PP500 devices with keys

5PP5CP.US15-01

ID	valuation	solved since	known since	Description
267425	New function	-	-	Changed hardware description file and new firmware
258485	New function	-	-	Problems with LEDs of PP500 devices with keys

5PP5CP.US15-02

ID	valuation	solved since	known since	Description
267430	New function	-	-	Changed hardware description file and new firmware
258480	New function	-	-	Problems with LEDs of PP500 devices with keys

5PP5IF.FPLM-00

ID	valuation	solved since	known since	Description
268145	New function	-	-	New FPGA firmware V05 and new POWERLINK firmware V112

5PP5IF.FX2X-00

ID	valuation	solved since	known since	Description
266260	Problem	-	-	Problem with the SRAM

7EC020.60-2

ID	valuation	solved since	known since	Description
400052453	Problem	-	V3.00.81.18	7EC020.60-2 can be changed against other CPU's
400009563 400018914	Problem	-	-	VNC works without problems

7EC020.61-2

ID	valuation	solved since	known since	Description
400052453	Problem	-	V3.00.81.18	7EC020.61-2 can be changed against other CPU's

7EC021.60-1

ID	valuation	solved since	known since	Description
400052453	Problem	-	V3.00.81.18	7EC021.60-1 can be changed against other CPU's
400066092	Problem	-	-	ModbusTCP Master works now with this module

7EC021.61-2

ID	valuation	solved since	known since	Description
400052453	Problem	-	V3.00.81.18	7EC021.61-2 can be changed against other CPU's

7XV124.50-62

ID	valuation	solved since	known since	Description
400065007	New function	-	V3.00.81.24 SP0x	Outputs can be transferred in "packed" mode

7XX419L.50-1

ID	valuation	solved since	known since	Description
233320	New function	-	-	Support for the module 7XX419L.50-1

80PS080X3.10-01

ID	valuation	solved since	known since	Description
400060553	Problem	-	-	80PS080X3 - Additional 24 VDC output problems

80SD100XD.C044-01

ID	valuation	solved since	known since	Description
243225	Problem	-	-	Customer-specific expansion of hardware description file
400046062	Problem	-	-	Reference pulse on channel two doesn't work

80SD100XD.C04X-13

ID	valuation	solved since	known since	Description
400056193	Problem	-	V3.00.81.18	Special character were deleted in channel description
243230	Problem	-	-	Customer-specific expansion of hardware description file

80SD100XD.C0XX-01

ID	valuation	solved since	known since	Description
243235	Problem	-	-	Customer-specific expansion of hardware description file

80SD100XD.C0XX-21

ID	valuation	solved since	known since	Description
243310	Problem	-	-	Customer-specific expansion of hardware description file
245865	Problem	-	-	Customer-specific expansion of hardware description file
400049657	Problem	-	-	Current peaks at switch on of the controller at channel 2

80SD100XS.C04X-01

ID	valuation	solved since	known since	Description
243370	Problem	-	-	Customer-specific expansion of hardware description file
245875	Problem	-	-	Customer-specific expansion of hardware description file

80SD100XS.C04X-13

ID	valuation	solved since	known since	Description
243380	Problem	-	-	Customer-specific expansion of hardware description file
230710	New function	-	-	SDC support for the module 80SD100XS.C04X-01
245880	Problem	-	-	Customer-specific expansion of hardware description file

80SD100XS.C0XX-01

ID	valuation	solved since	known since	Description
243385	Problem	-	-	Customer-specific expansion of hardware description file
245885	Problem	-	-	Customer-specific expansion of hardware description file

80VD100PD.C000-01

ID	valuation	solved since	known since	Description
259090	New function	-	-	Extensions for AS 3.0.90 for the module 80VD100PD.C000-01

80VD100PD.C022-01

ID	valuation	solved since	known since	Description
259085	New function	-	-	Extensions for AS 3.0.90 for the module 80VD100PD.C022-01

80VD100PS.C02X-01

ID	valuation	solved since	known since	Description
260260	Problem	-	-	Support for the module 80VD100PS.C02X-01

8AC112.60-1

ID	valuation	solved since	known since	Description
400016061	Problem	-	1.0.0.1	The AsIODiag library detects a discrepancy (plugged/configured), although the configured module is physically connected. (AR 02.95 or higher required!)

8AC114.60-1

ID	valuation	solved since	known since	Description
196270	Problem	-	1.0.0.0	The AsIODiag library detects a discrepancy (plugged/configured), although the configured module is physically connected. (AR 02.95 or higher required!)

8AC114.60-2

ID	valuation	solved since	known since	Description
400048080 , 400048192 , 400048184	Problem	-	ARSG4_3.01.6_F03.01	IOSuffix in HWC file added

8AC141.60-2

ID	valuation	solved since	known since	Description
400054584 , 400054504	Problem	-	-	INA node numer can be set in automation studio

8BAC0124.000-1

ID	valuation	solved since	known since	Description
262910	New function	-	1.0.0.1	Extansion for ACOPOSmulti65

8BVS2SAFE1-1

ID	valuation	solved since	known since	Description
237625	New function	-	-	Shutdown delay in case of PLK network error
226485	New function	-	-	Changes/ Features in Motion Safety Release 1.4

8CVE28000HC00.00-1

ID	valuation	solved since	known since	Description
264685	New function	-	-	8CVE28000HC00.00-1, new POWERLINK Stack
246072	New function	-	-	8CVE28000HC00.00-1, new POWERLINK Stack
268875	Problem	-	-	Display the modul information unter I/O Mapping in the AS 3.0.90

8I64XXXXXX.00X-1

ID	valuation	solved since	known since	Description
263585	Problem	V3.00.90.12	-	Extensions for AS 3.0.9.0
256660	New function	-	-	To save data on the X2X bus the I/O mapping can be configured
263205	Problem	-	-	"Relay 02" instead of "Relay 02 state" in IO Description
400065557 , 400069029	Problem	-	-	On 8I0IF109.200-1 with rev. B5 the relay does not work in standalone mode
400057134	Problem	-	-	The boottime of X64 takes 8-45 seconds
245955	Problem	-	-	Customer-specific expansion of hardware description file
400067044	Problem	-	1.0.0.0	X64 Inverter does sometimes not work after a powerlink BC

8V1010.00-2

ID	valuation	solved since	known since	Description
239085	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1010.50-2

ID	valuation	solved since	known since	Description
239090	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1016.00-2

ID	valuation	solved since	known since	Description
239095	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1016.50-2

ID	valuation	solved since	known since	Description
239100	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1022.00-2

ID	valuation	solved since	known since	Description
239105	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1045.00-2

ID	valuation	solved since	known since	Description
239110	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1090.00-2

ID	valuation	solved since	known since	Description
239115	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1180.00-2

ID	valuation	solved since	known since	Description
239120	Problem	-	-	Correction of the german translation for "NC Mapping"

8V128M.00-2

ID	valuation	solved since	known since	Description
239125	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1320.00-2

ID	valuation	solved since	known since	Description
239130	Problem	-	-	Correction of the german translation for "NC Mapping"

8V1640.00-2

ID	valuation	solved since	known since	Description
239135	Problem	-	-	Correction of the german translation for "NC Mapping"

FBE.KEB.COMBIVERT

ID	valuation	solved since	known since	Description
400037610	Problem	-	-	Neue Firmwar
253660	Problem	1.0.6.2	1.0.6.0	Changes for firmware update
220515	New function	1.0.6.0	1.0.5.0	Different OD-Entries are directly overtaken from the Host (DeviceType, VendorId, RevisionNumber and Serial Number)

X20AI1744

ID	valuation	solved since	known since	Description
256630	New function	-	-	New function model (multisample)
261660	Problem	-	-	Changes for AS3.0.90
256670	Problem	-	-	Extensions for AS 3.0.90
400055356	Problem	-	-	High EMC influences could be the reason for module fail, EMC immunity increased
400054723	Problem	-	nicht relevant	Value of the X20AI1744 is oscillating if several X20AI1744 are plugged side by side

X20AI1744-3

ID	valuation	solved since	known since	Description
400055356	Problem	-	-	High EMC influences could be the reason for module fail, EMC immunity increased
235630	Problem	-	-	Improvement of the internal communication between ADC and I/O processor
400054723	Problem	-	nicht relevant	Value of the X20AI1744-3 is oscillating if several X20AI1744-3 are plugged side by side

X20AI2636

ID	valuation	solved since	known since	Description
229405	New function	-	-	Support X20AI2636
262520	New function	1.0.0.1	1.0.0.1	Enhancement english online help

X20AI4636

ID	valuation	solved since	known since	Description
229410	New function	-	-	Support X20AI4636
262525	New function	1.0.0.1	1.0.0.1	Enhancement english online help

X20AT2222

ID	valuation	solved since	known since	Description
400063839	Problem	1.0.2.0	1.0.2.0	Missing IO mapping using SG3 CANIO corrected

X20BC0083

ID	valuation	solved since	known since	Description
247260	Problem	1.2.1.0	-	DNA runup upgraded
245095	Problem	1.2.0.0	-	DNA support; Update behavior on X2X bus of the BC improved

X20BC1083

ID	valuation	solved since	known since	Description
268450	Problem	-	1.2.0.0	Netx and Powerlink error correction
400072488	Problem	-	1.2.0.0	Profibus I/O data not transmitted when only output data is configured
246445	Problem	1.2.0.0	-	DNA support; Update behavior on X2X bus of the BC improved

X20BC8083

ID	valuation	solved since	known since	Description
246550	Problem	1.2.0.0	-	DNA support; Update behavior on X2X bus of the BC improved

X20BC8084

ID	valuation	solved since	known since	Description
265540	Problem	1.2.0.0	nicht relevant	Optimtion of Kabelredundancy (Link Selector) ; Update behavior on X2X bus improved

X20BR9300

ID	valuation	solved since	known since	Description
261385	Problem	1.0.2.0	1.0.2.0	Spacer in I/O map display corrected
260505	Problem	1.0.1.0	1.0.1.0	Error correction in Channel description

X20BT9100

ID	valuation	solved since	known since	Description
260670	New function	1.0.2.0	1.0.2.0	Spacer in I/O map display corrected
400061307	Problem	1.0.1.0	1.0.1.0	Error correction in channel description

X20CM1941

ID	valuation	solved since	known since	Description
257105	Problem	-	-	Serial number will be displayed correctly
400052686	Problem	-	-	Duty Cycle of AB signal sporadically not correct

X20CP1483

ID	valuation	solved since	known since	Description
266100	New function	-	1.0.16.0	Enhancement status datapoint for I/O supply
256995	New function	-	1.0.16.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256850	New function	-	1.0.16.0	POWERLINK: LinkOK data point added.
265805	Problem	-	1.0.16.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265705	Problem	-	1.0.16.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400057319	Problem	-	1.0.16.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
240370	Problem	-	1.0.15.0	FPGA Fitter upgrade
230775	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP1483-1

ID	valuation	solved since	known since	Description
257000	New function	-	1.0.16.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256855	New function	-	1.0.16.0	POWERLINK: LinkOK data point added.
227235	New function	-	1.0.16.0	Enhancement status datapoint for I/O supply
265810	Problem	-	1.0.16.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265710	Problem	-	1.0.16.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400057319	Problem	-	1.0.16.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
240375	Problem	-	1.0.15.0	FPGA Fitter upgrade
230780	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP1484

ID	valuation	solved since	known since	Description
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257005	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256860	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265815	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265715	Problem	-	1.0.15.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
260870	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
400057319	Problem	-	1.0.15.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
230785	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP1484-1

ID	valuation	solved since	known since	Description
256865	New function	-	1.0.15.1	POWERLINK: LinkOK data point added.
265820	Problem	-	1.0.15.1	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265720	Problem	-	1.0.15.1	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400057319	Problem	-	1.0.15.1	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
257010	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
260875	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
230790	Problem	1.0.15.1	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP1485

ID	valuation	solved since	known since	Description
400057319	Problem	-	1.1.13.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
257015	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256870	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265825	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265725	Problem	-	1.0.15.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
229360	Problem	1.1.0.2	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
228100	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP1485-1

ID	valuation	solved since	known since	Description
257020	New function	-	1.0.15.1	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
265830	Problem	-	1.0.15.1	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265730	Problem	-	1.0.15.1	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
400057319	Problem	-	1.0.15.1	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
260880	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
234725	Problem	1.0.15.1	1.0.15.0	LinkOK Datapoint available.

X20CP1486

ID	valuation	solved since	known since	Description
257025	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256875	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265835	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265735	Problem	-	1.0.15.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
260885	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
400057319	Problem	-	1.0.15.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
230795	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP3484

ID	valuation	solved since	known since	Description
257030	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256880	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265840	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265740	Problem	-	1.0.15.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
260890	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
400057319	Problem	-	1.0.15.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
230800	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP3484-1

ID	valuation	solved since	known since	Description
265745	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
257035	New function	-	1.0.15.1	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256885	New function	-	1.0.15.1	POWERLINK: LinkOK data point added.
265845	Problem	-	1.0.15.1	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
400057319	Problem	-	1.0.15.1	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
260895	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
230805	Problem	1.0.15.1	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP3485

ID	valuation	solved since	known since	Description
265750	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
257040	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256890	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265850	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
260900	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
400057319	Problem	-	1.0.15.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
228110	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP3485-1

ID	valuation	solved since	known since	Description
257045	New function	-	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
256895	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265855	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265755	Problem	-	1.0.15.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
260905	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
400057319	Problem	-	1.0.15.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
228530	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20CP3486

ID	valuation	solved since	known since	Description
256900	New function	-	1.0.15.0	POWERLINK: LinkOK data point added.
265860	Problem	-	1.0.15.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265760	Problem	-	1.0.15.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
260910	Problem	-	1.0.15.0	POWERLINK: L/A LED only shows Link and not Activity -> corrected.
400057319	Problem	-	1.0.15.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
240275	New function	1.1.0.2	1.0.15.0	POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.
230810	Problem	1.0.15.0	1.0.14.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

X20DC1196

ID	valuation	solved since	known since	Description
251590	Problem	1.0.1.0	1.0.1.0	Enhancement Online Help

X20DI4375

ID	valuation	solved since	known since	Description
246260	Problem	-	-	Customer-specific expansion of hardware description file

X20DI6373

ID	valuation	solved since	known since	Description
243180	Problem	-	-	Customer-specific expansion of hardware description file
225410	Problem	1.0.0.1	1.0.0.0	Support for Fieldbusdesigner

X20DI9371

ID	valuation	solved since	known since	Description
400054614	New function	1.0.1.0	1.0.1.0	Enhancement packed data point for inputs

X20DI9372

ID	valuation	solved since	known since	Description
400054614	New function	1.0.1.0	1.0.1.0	Enhancement packed data point for inputs

X20DO2633

ID	valuation	solved since	known since	Description
220755	New function	-	-	Support X20DO2633

X20DO4613

ID	valuation	solved since	known since	Description
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X20DO4633

ID	valuation	solved since	known since	Description
220750	New function	-	-	Support X20DO4633

X20DO8232

ID	valuation	solved since	known since	Description
256450	Problem	1.0.1.1	1.0.1.1	Increase interference immunity of output status feedbacks

X20DS1119

ID	valuation	solved since	known since	Description
400055350	Problem	1.1.2.2	1.1.2.2	Enhancement length check of I/O block size during Build
251595	Problem	1.1.2.1	1.1.2.1	Enhancement Online Help

X20DS1319

ID	valuation	solved since	known since	Description
400055350	Problem	1.1.2.2	1.1.2.2	Enhancement length check of I/O block size during Build
251605	Problem	1.1.2.1	1.1.2.1	Enhancement Online Help

X20DS4387

ID	valuation	solved since	known since	Description
238970	New function	-	-	Customer-specific expansion of hardware description file
269070	Problem	1.0.3.0	1.0.3.0	Extensions and Bugfixes
254320	New function	1.0.2.2	1.0.2.2	Optimizations and extensions
217795	Problem	1.0.2.1	1.0.1.1	4x IO-Link Interface, Optimisation master cycle time calculation and correction in register ParameterCtrlIn

X20HB8815

ID	valuation	solved since	known since	Description
231465	New function	1.0.0.2	-	First version.

X20IF1020

ID	valuation	solved since	known since	Description
247755	Problem	1.1.3.0	1.1.3.0	Error correction in the FPGA UART implementation

X20IF1030

ID	valuation	solved since	known since	Description
247765	Problem	1.1.3.0	1.1.3.0	Error correction in the FPGA UART implementation

X20IF1041-1

ID	valuation	solved since	known since	Description
400069675	Problem	-	1.1.0.1	CANopen master doesn't write output data to all slaves
240405	New function	1.0.3.0	1.0.2.0	X20 Interface CANopen Master, Configuration of netX cycle time
259320	New function	1.0.2.0	1.0.2.0	Vendor ID changed

X20IF1043-1

ID	valuation	solved since	known since	Description
257350	New function	1.0.2.0	1.0.2.0	Vendor ID changed
240710	New function	1.0.2.0	1.0.1.0	X20 Interface CANopen Slave, Configuration of netX cycle time

X20IF1051-1

ID	valuation	solved since	known since	Description
257360	New function	1.0.2.0	1.0.2.0	Vendor ID changed
240715	New function	1.0.2.0	1.0.1.0	X20 Interface Device Net Master, Configuration of netX cycle time

X20IF1053-1

ID	valuation	solved since	known since	Description
228290	New function	1.0.2.0	-	Vendor ID changed

X20IF1061-1

ID	valuation	solved since	known since	Description
257410	New function	1.0.2.0	1.0.2.0	Vendor ID changed
240725	New function	1.0.2.0	1.0.1.1	X20 Interface PROFIBUS DP Master, Configuration of netX cycle time

X20IF1063-1

ID	valuation	solved since	known since	Description
257425	New function	1.0.2.0	1.0.2.0	Vendor ID changed
240730	New function	1.0.2.0	1.0.1.1	X20 Interface PROFIBUS DP Slave, Configuration of netX cycle time

X20IF1082

ID	valuation	solved since	known since	Description
400046576	Problem	-	1.1.9.0	Correction of interchanged LinkOK data points in AS IO mapping
256905	New function	-	1.1.12.1	POWERLINK: LinkOK data point added.
265910	Problem	-	1.1.12.1	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
265865	Problem	-	1.1.12.1	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
256935	Problem	-	1.1.12.1	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.1.12.1	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
265765	Problem	-	1.1.0.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
205545	New function	1.2.0.2	1.1.12.0	POWERLINK: LinkOK data point added.

X20IF1082-2

ID	valuation	solved since	known since	Description
265915	Problem	-	1.0.2.0	POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.
265870	Problem	-	1.0.2.0	Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network
265770	Problem	-	1.0.2.0	POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
256945	Problem	-	1.0.2.0	POWERLINK: The net time is not always transferred correctly to the application.
400057319	Problem	-	1.0.2.0	POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.
234660	Problem	1.0.2.0	1.0.1.0	New POWERLINK firmware V106
233570	Problem	1.0.2.0	1.0.1.0	Correction of interchanged LinkOK data points in AS IO mapping

X20IF1091

ID	valuation	solved since	known since	Description
240765	New function	1.0.4.0	1.0.4.0	Enhancement Nettime data point

X20IF10A1-1

ID	valuation	solved since	known since	Description
250250	New function	1.0.1.0	1.0.1.0	Enhancement english online help for AS

X20IF10D1-1

ID	valuation	solved since	known since	Description
268245	Problem	-	1.1.0.0	Input data of Ethernet/IP slaves is no longer being transferred
257440	New function	1.0.2.0	1.0.2.0	Vendor ID changed

X20IF10D3-1

ID	valuation	solved since	known since	Description
400059600	Problem	-	-	Ethernet IP communication doesn't work via explicit messaging
257455	New function	1.0.2.0	1.0.2.0	Vendor ID changed

X20IF10E1-1

ID	valuation	solved since	known since	Description
257460	New function	1.0.2.0	1.0.2.0	Vendor ID changed
240735	New function	1.0.2.0	1.0.1.1	X20 Interface PROFINET RT Master, Configuration of netX cycle time

X20IF10E3-1

ID	valuation	solved since	known since	Description
257465	New function	1.0.2.0	1.0.2.0	Vendor ID changed
240740	New function	1.0.2.0	1.0.1.1	X20 Interface PROFINET RT Slave, Configuration of netX cycle time

X20MM2436

ID	valuation	solved since	known since	Description
400062572	Problem	-	-	MM2436 Slow Decay mode switch off the outputs

X20MM3332

ID	valuation	solved since	known since	Description
243190	Problem	-	-	Customer-specific expansion of hardware description file

X20MM4331

ID	valuation	solved since	known since	Description
243195	Problem	-	-	Customer-specific expansion of hardware description file

X20MM4456

ID	valuation	solved since	known since	Description
243200	Problem	-	-	Customer-specific expansion of hardware description file
400064834	Problem	-	-	The incremental counters of X20MM4456 can be reset
400057091	Problem	-	-	Support for operation with bus coupler
245845	Problem	-	-	Customer-specific expansion of hardware description file
400049478	Problem	-	-	The module doesn't report an overtemperature error at low ambient temperatures (7-10°C)
233790	Problem	-	-	Dither function works now also at lower frequencies and lower PWM duration without problems
204675	Problem	-	-	At modules with revision <=A6 the offset from the current measurement was corrected

X20PS2100

ID	valuation	solved since	known since	Description
227885	New function	-	1.0.1.0	Extension in IO-Mapping for SG3 CanIO
400061307	Problem	1.0.2.0	1.0.2.0	Error correction in Channel description

X20PS2110

ID	valuation	solved since	known since	Description
227890	New function	-	1.0.1.1	Extension in IO-Mapping for SG3 CanIO
400061307	Problem	1.0.2.0	1.0.2.0	Error correction in channel description

X20PS3300

ID	valuation	solved since	known since	Description
400061307	Problem	1.0.1.0	1.0.1.0	Error correction in channel description

X20PS9400

ID	valuation	solved since	known since	Description
400061307	Problem	1.0.1.0	1.0.1.0	Error correction in channel description

X20SC2432

ID	valuation	solved since	known since	Description
225435	New function	1.3.0.96	1.2.1.0	Safety Release 1.4

X20SI2100

ID	valuation	solved since	known since	Description
180810	New function	-	1.1.1.0	see history of module X20SI4100

X20SI4100

ID	valuation	solved since	known since	Description
225420	New function	1.3.0.96	-	Safety Release 1.4

X20SI9100

ID	valuation	solved since	known since	Description
400056193	Problem	1.4.0.0	V3.00.81.18	Projects with hardware modules that contain µ in their channel descriptions can not be build in the Chinese version of Windows.

X20SL8001

ID	valuation	solved since	known since	Description
226755	New function	-	1.3.0.0	Download application from functional CPU
400034396	Problem	-	1.2.0.3	reset after SafeKEY format
198515	Problem	-	1.1.3.0	provide temperature
251380	Problem	1.4.1.1	-	SL-to-SL connection
245315	Problem	1.4.0.1	1.3.0.97	sporadic reset problems
400041388	New function	1.3.0.108	1.3.0.0	format SafeKEY via operating elements
226760	New function	1.3.0.106	-	operate SL via EPL and additional logger entries.
225445	New function	1.3.0.106	-	improvements logger entries
219960	New function	1.3.0.106	-	external machine options
400043442 400041050	Problem	1.3.0.106	1.3.0.0	Error "Unexpected FSM event (00) occurred."
176990	New function	1.3.0.105	-	SafeKEY-LED was not activated for LED test.
248160	Problem	1.3.0.105	1.3.0.102	Problems when using new AR version in application with a lot of powerlink nodes.
223460	Problem	1.3.0.105	1.2.0.3	online communication through B&R-CPU
240700	Problem	1.3.0.105	-	Failsafe after reset
217100	Problem	1.3.0.0	1.2.0.0	SafeKEY acknowledge after firmware update

X20SM1426

ID	valuation	solved since	known since	Description
243210	Problem	-	-	Customer-specific expansion of hardware description file
245855	Problem	-	-	Customer-specific expansion of hardware description file

X20SM1436

ID	valuation	solved since	known since	Description
267990	Problem	-	-	The X20SM1436 doesn't switch in switched on with a customer motor at ramp mode.
267135	Problem	-	-	Problem with the endswitch-reset at ramp mode.

X20SO2110

ID	valuation	solved since	known since	Description
180850	New function	-	1.1.2.0	see history of module X20SO4120

X20SO2120

ID	valuation	solved since	known since	Description
180845	New function	-	1.1.2.0	see history of module X20SO4120

X20SO4110

ID	valuation	solved since	known since	Description
180835	New function	-	1.1.2.0	see history of module X20SO4120

X20SO4120

ID	valuation	solved since	known since	Description
225425	New function	1.3.0.94	1.2.0.3	Safety Release 1.4

X20XC0201

ID	valuation	solved since	known since	Description
163760	Problem	-	1.0.0.0	New Firmware V21

X20XC0202

ID	valuation	solved since	known since	Description
163750	Problem	-	1.0.0.0	New Firmware V21

X67AT1322

ID	valuation	solved since	known since	Description
400060234	Problem	1.0.0.1	1.0.0.1	Status input channel description corrected for SGC targets

X67BC8321.L12

ID	valuation	solved since	known since	Description
246365	Problem	1.2.1.0	-	DNA support; Update behavior on X2X bus of the BC improved
400052241	Problem	1.0.1.0	1.0.1.0	Correction of X67BCOnboard Compatible Code
238900	New function	1.0.1.0	1.0.1.0	Extensions

X67BC8321-1

ID	valuation	solved since	known since	Description
400031208 , 400032412 , 400032783	Problem	1.2.0.0	V2.7.0.0017 SP10	Correct display of local I/O module in HW-tree
246660	Problem	1.2.0.0	-	DNA support; Update behavior on X2X bus of the BC improved

X67BC8331

ID	valuation	solved since	known since	Description
246690	Problem	1.2.0.0	-	DNA support; Update behavior on X2X bus of the BC improved

X67BC8513.L12

ID	valuation	solved since	known since	Description
228415	New function	-	-	Support X67BC8513.L12

X67DC1198

ID	valuation	solved since	known since	Description
237195	New function	-	-	Customer-specific expansion of hardware description file
400055350	Problem	1.0.3.1	1.0.3.1	Enhancement length check of I/O block size during Build

X67DC2322

ID	valuation	solved since	known since	Description
400050103	Problem	-	-	Under certain conditions the resolver channel 2 doesn't work after restart

X67DM1321.L08

ID	valuation	solved since	known since	Description
400048373	Problem	1.1.0.0	1.1.0.0	Correction of X67BCOnboard Compatible Codes to X67BCOnboardL08

X67DM1321.L12

ID	valuation	solved since	known since	Description
242860	Problem	1.1.1.0	1.1.1.0	Correction of X67BCOnboard Compatible Code
239470	Problem	1.1.0.0	1.1.0.0	Correction of X67BCOnboard Compatible Codes to X67BCOnboardL12

X67MM2436

ID	valuation	solved since	known since	Description
177375	Problem	-	V2.6.0.0012 SP02	HWC file has to be better documented
400069673	Problem	-	-	X67MM2436 on CANIO Controller leads to malfunction of subsequent modules -> Repair by means of correction of erroneous HWC-entry

X67SC4122.L12

ID	valuation	solved since	known since	Description
261780	Problem - sicherheitskritisch	-	1.40	Increase of minimum load to 12mA
235610	Problem	1.3.1.95	1.3.1.0	Safety Release 1.4

X67SM2436

ID	valuation	solved since	known since	Description
256440	Problem	-	-	Modul informations were not longer shown
255900	Problem	-	-	Customer-specific expansion of hardware description file
400043902	Problem	-	-	X67SM2436 changes without problems in the "Switched On" state

X67SM4320

ID	valuation	solved since	known since	Description
400057799	Problem	-	-	X67SM4320 works on SGC-CPU
194030	Problem	-	-	Correction: Reference on stall works also with HW Rev >= B5 of X67SM4320

X67UM6342

ID	valuation	solved since	known since	Description
263095	Problem	-	nicht relevant	implementation of do readback

Requests and problems by product/component**1A4000.02 Automation Studio 2x****Languages**

ID#400056581 : solved problem, known since V2.7.0.0020 SP13, solved since V3.00.81.26 SP0x

Recursion when using a field variable in CheckBounds

Using a local field variable in the CheckBounds function causes an unintended recursion and subsequently a cold restart.

ID#400056581 : solved problem, known since V2.7.0.0020 SP13, solved since V3.00.90.07

Recursion when using a field variable in CheckBounds

Using a local field variable in the CheckBounds function causes an unintended recursion and subsequently a cold restart.

Workspace - Hardware Configuration

ID#400068078 : solved problem, known since V2.7.0.0020 SP13, solved since V3.00.90.12

Unable to enter parameters for the Profibus master modules

The hardware configuration no longer offers access to the settings of the Profibus master modules (3NW150.60-1, 2NW100.50-1) for SG3.
The corresponding tab is not visible.

ID#400068078 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.81.29 SP0x

Unable to enter parameters for the Profibus master modules

The hardware configuration no longer offers access to the settings of the Profibus master modules (3NW150.60-1, 2NW100.50-1) for SG3.
The corresponding tab is not visible.

1A4000.02 Motion Components**Motion Components**

ID#400063641 : solved problem, known since V3.00.90.09, solved since V3.00.90.11

ACOPOS parameter tables are not completely converted from AS 2.x to AS 3.x

If an ACOPOS parameter table contains characters such as "Ä", "Ö" or "Ü", then the is only converted to AS 3.x up until these characters. The remaining characters are not converted from AS 2.x to AS 3.x.

NC Software - ACP10 Wichtige Information

ID#264882 : Important Information

ACOPOSmulti 8BVx0xx0HxSx.000-1: Increased thermal load on components in the power supply for IGBT driver circuits (only in V2.250, V2.260, V2.261, V2.262, V2.263, V2.270, V2.271 and V2.280)

In ACOPOSmulti modules 8BVI0220HxSx.000-1, 8BVI0330HxSx.000-1, 8BVI0440HxSx.000-1, 8BVI0880HxSx.000-1, 8BVI0220HWS0.001-1, 8BVI0440HCS0.001-1, 8BVI0880HCS0.001-1, 8BVP0220Hx00.000-1, 8BVP0440Hx00.000-1, 8BVP0880Hx00.000-1 using the versions listed above increases the thermal load on components in the power supply for IGBT driver circuits. This can cause an error message or even a defect in the module hardware. The modules also display a significant increase in 24V power consumption.

The defect of an ACOPOSmulti module caused by the problem described above can lead to the following errors:

- 6045: Power stage: X5 connection: No power flow
- 6052: Power stage: High-side: Overcurrent
- 6053: Power stage: Low-side: Overcurrent

When using inverter modules, this can cause the motor to spin out. When using power supply modules, this can cause the fuses connected upstream to be triggered.

Note:

If there is no defect of an ACOPOSmulti module, then it is only necessary to upgrade to an ACP10 software version in which the problem has been corrected. No other measures are necessary.

ID#262092 : Important Information

SG4 target system, POWERLINK: Task class as output cycle trigger is possible with ACP10 software from V2.280 on

In Automation Studio V3.0.90 with AR versions from V3.08 on, in the POWERLINK configuration a task class can be selected as output cycle trigger (by default the output cycle trigger is carried out by the system tick). This selection is supported in ACP10 software starting with V2.280. In versions before V2.280, selecting a task class as output cycle trigger will cause the ACOPOS startup to be aborted with the following error:
 - 32223: Error calling pGetNodeInfo(), Status of pGetNodeInfo(): 20935

ID#256222 : Important Information

SG4 target system, POWERLINK: SDM Motion is supported from ACP10 Software V2.270 on

With Automation Studio V3.0.90 and AR versions from V3.08 on, Motion functions are available in the SDM (System Diagnostics Manager). These functions are supported from ACP10 Software V2.270 on.

ID#235337 : Important Information

SG4 target system, POWERLINK: PDO errors with certain AR versions

The following error can occur if ACP10 software for POWERLINK is used for ACOPOS with 8AC114.60-2 with AR version F3.01:
 - 32244: No PDO defined in the cyclic frame for this channel: NC object is disabled
 If this error occurs with AR version F3.01, then another AR version must be used.

The following errors can occur if V2.090 or later of ACP10 software for Powerlink is used with AR versions H2.95 - K2.95 for SG4:
 Error calling naccess() or nalloc():
 - 10712: This NC object is not enabled (channel number too high or no PDO data defined)
 Error in NC structure of the NC objects:
 - 32244: No PDO defined in the cyclic frame for this channel: NC object is disabled
 If the errors listed above occur, then an AR version earlier than H2.95 or later than K2.95 must be used.

ID#233467 : Important Information

SG4 target system: ACP10 software versions for different AR versions

For AR versions A3.08 or higher only the ACP10 versions V2.220 or higher can be used.

ACP10 software versions V2.210 or higher can be used only with AR versions V2.82 or higher.

If an ACP10 software version V2.210 or higher is used with AR versions before V2.82, then "ACP10MAN: SG4 AR <V2.82" will be entered in the AR logger and the initialization of ACP10 software will be aborted.

For AR versions before V2.82 only the ACP10 software versions before V2.210 can be used.

ID#173492 : Important Information

SGC target system: ACP10 software versions for different AR versions

ACP10 software versions V2.190 or higher must be used for AR versions V2.30 and higher (otherwise global PVs cannot be used as NC object).

If an ACP10 software version V2.190 or higher is used with AR versions before V2.30, then "ACP10MAN: SGC AR <V2.30" will be entered in the AR logger and the initialization of ACP10 software will be aborted.

ACP10 software versions V2.050 or higher must be used for AR versions E2.00 and higher.

If an ACP10 software version V2.050 or higher is used with AR versions before E2.00, then "ACP10MAN: SGC AR < E2.00" will be entered in the AR logger and the initialization of ACP10 software will be aborted.

ACP10 software versions V2.000 - V2.033 must be used for AR versions before A2.00.

If an ACP10 software version V2.034 or higher is used for AR versions before A2.00, then "ACP10MAN: SGC AR < A2.00" will be entered in the AR logger.

IMPORTANT:

ACP10 software versions V2.034 - V2.043 with AR versions A2.00 - D2.00 must not longer be used for SGC target systems.

NC Software - ACP10 V2.282

ID# 400069466, 400071137, 400071148 : solved problem, solved since V2.282

Induction motor: Error 4007 when turning on the controller (only in V2.270 - V2.281)

An increased lag error can occur briefly on induction motors when turning on the controller if, after the motor parameters have been set, the value of the parameter UDC_NOMINAL or UDC_BLEEDER_ON has changed or UDC_NOMINAL has been newly detected (e.g.: after a power failure or after boosting the DC bus voltage). This can result in the following error:

- 4007: Lag error stop limit exceeded

NC Software - ACP10 V2.281

ID#264765 : solved problem, solved since V2.281

ACOPOSmulti 8BVx0xx0HxSx.000-1: Increased thermal load on components in the power supply for IGBT driver circuits (only in V2.250, V2.260, V2.261, V2.262, V2.263, V2.270, V2.271 and V2.280)

In ACOPOSmulti modules 8BVI0220HxSx.000-1, 8BVI0330HxSx.000-1, 8BVI0440HxSx.000-1, 8BVI0880HxSx.000-1, 8BVI0220HWS0.001-1, 8BVI0440HCS0.001-1, 8BVI0880HCS0.001-1, 8BVP0220Hx00.000-1, 8BVP0440Hx00.000-1, 8BVP0880Hx00.000-1 using the versions listed above increases the thermal load on components in the power supply for IGBT driver circuits. This can cause an error message or even a defect in the module hardware. The modules also display a significant increase in 24V power consumption.

The defect of an ACOPOSmulti module caused by the problem described above can lead to the following errors:

- 6045: Power stage: X5 connection: No power flow
- 6052: Power stage: High-side: Overcurrent
- 6053: Power stage: Low-side: Overcurrent

When using inverter modules, this can cause the motor to spin out. When using power supply modules, this can cause the fuses connected upstream to be triggered.

Note:

If there is no defect of an ACOPOSmulti module, then it is only necessary to upgrade to an ACP10 software version in which the problem has been corrected. No other measures are necessary.

ID#264640 : solved problem, solved since V2.281

8BVlxxxxSx.xxx-x: IGBT temperature sensor inputs were not monitored (only in V2.250 - V2.263, V2.270, V2.271 and V2.280)

Only one temperature sensor was monitored on ACOPOSmulti inverter modules with three temperature sensors (e.g.: 8BVlxx0660Sx.xxx-x, 8BVlxx0880Sx.xxx-x, 8BVlxx1650Sx.xxx-x).

This can damage the IGBT if strong currents occur during standstill.

ID#400070266 : solved problem, solved since V2.281

CAN network error 6002 when using cyclic user data or master/slave network coupling

With CAN networks the use of cyclic user data or master/slave network coupling could lead to errors in the drive synchronization.

The following error was displayed:

- 6002: Sync controller: Error tolerance of system time difference exceeded

NC Software - ACP10 V2.280

ID#262707 : solved problem, solved since V2.280

Warnings 39003 and 39006 when using Heidenhain EBI encoders

When using Heidenhain EBI encoders, in operation sometimes the following warnings were indicated:

- 39003: EnDat encoder: Alarm bit is set

- 39006: EnDat encoder: Alarm bit - Position value contains an error

It is rarely possible even now that this warnings were indicated after ACOPOS startup . In this case the encoder error has to be cleared by setting "ENCOD_CMD = 1".

ID#400066732 : solved problem, solved since V2.280

ACOPOSmulti with SafeMC: The errors 33002, 6058 and 6059 were falsely indicated

Using large values for the load scale (SCALE_LOAD_UNITS, SCALE_LOAD_MOTOR_REV) could cause incorrect set position values to be transferred to the SafeMC module. This error activated the STO safety function if safety related monitoring of the position lag error was switched on. This then caused the following errors to be indicated:

- 33002: Floating-Point exception

- 6058: Enable1: Voltage sag

- 6059: Enable2: Voltage sag

ID#258967 : solved problem, solved since V2.280

ACOPOS 8V1xxxx.xx-2: Start-up error, if multiple 8AC122.60-3 cards are plugged

Starting with version V2.240, the following occurred when using two or more AC122.60-3 cards in an ACOPOS:

- 6032: Interface: FPGA configuration error

With versions before V2.271 in this case not the error 6032 was indicated, but the ACOPOS startup was aborted with one of the following errors, because after start of the operating system with "CMD_BOOT_STATE = 24" no response on read request for "BOOT_STATE" could be received:

POWERLINK:

- 32204: Timeout while reading par. via acyclic channel (is the drive in the network ?)

CAN:

- 32010: Drive not responding to Read Request (is the drive in the network ?)

ID#400063297 : new function since V2.280

SG4 target system, POWERLINK, Coupling of axes on different networks: Unequal cycle times are now possible

Until now, coupling of axes on different networks was only possible if the following cycle times were equal:

- Cycle time of the NC Manager task class

- POWERLINK cycle time (if master or slave are operated via POWERLINK network)

From now on, coupling of axes on different networks is also possible with unequal cycle times if the following conditions are fulfilled:

- The cycle time of the slave network interface is equal to the cycle time of the NC Manager task class

- The cycle time of the slave network interface is greater or equal to the cycle time of the master network interface

- The ratio of the cycle times of slave and master network interface is integral

If one of the conditions specified above is not fulfilled, the following error is indicated:

- 32282: Network coupling: Incompatible cycle times (network interfaces, NC task class)

NC Software - ACP10 V2.272

ID#264872 : solved problem, solved since V2.272

ACOPOSmulti 8BVx0xx0HxSx.000-1: Increased thermal load on components in the power supply for IGBT driver circuits (only in V2.250, V2.260, V2.261, V2.262, V2.263, V2.270, V2.271 and V2.280)

In ACOPOSmulti modules 8BVI0220HxSx.000-1, 8BVI0330HxSx.000-1, 8BVI0440HxSx.000-1, 8BVI0880HxSx.000-1, 8BVI0220HWS0.001-1, 8BVI0440HCS0.001-1, 8BVI0880HCS0.001-1, 8BVP0220Hx00.000-1, 8BVP0440Hx00.000-1, 8BVP0880Hx00.000-1 using the versions listed above increases the thermal load on components in the power supply for IGBT driver circuits. This can cause an error message or even a

defect in the module hardware. The modules also display a significant increase in 24V power consumption.

The defect of an ACOPOSMulti module caused by the problem described above can lead to the following errors:

- 6045: Power stage: X5 connection: No power flow
- 6052: Power stage: High-side: Overcurrent
- 6053: Power stage: Low-side: Overcurrent

When using inverter modules, this can cause the motor to spin out. When using power supply modules, this can cause the fuses connected upstream to be triggered.

Note:

If there is no defect of an ACOPOSMulti module, then it is only necessary to upgrade to an ACP10 software version in which the problem has been corrected. No other measures are necessary.

ID#264842 : solved problem, solved since V2.272

8BVIxxxxxSx.xxx-x: IGBT temperature sensor inputs were not monitored (only in V2.250 - V2.263, V2.270, V2.271 and V2.280)

Only one temperature sensor was monitored on ACOPOSMulti inverter modules with three temperature sensors (e.g.: 8BVIxx0660Sx.xxx-x, 8BVIxx0880Sx.xxx-x, 8BVIxx1650Sx.xxx-x).

This can damage the IGBT if strong currents occur during standstill.

NC Software - ACP10 V2.271

ID#259480 : solved problem, solved since V2.271

ACOPOSMulti: Temperature sensor inputs supplied invalid values (only in V2.250 - V2.263, V2.270)

8BVPxxxxxxxx.xxx-x:

The temperature sensor inputs on encoder plug-in module 2 and on the X1 plug supplied invalid values.

8BVIxxxxxSx.xxx-x:

The temperature sensor input on encoder plug-in module 2 supplied invalid values.

ID#400065447 : solved problem, solved since V2.271

POWERLINK, ACOPOS 8V1xxx.xx-2, ACOPOS startup: Error 32204 after start of operating system (only in V2.230 - V2.270)

During the ACOPOS startup function, communication to ACOPOS modules 8V1xxx.xx-2 must be re-established after the operating system has been started with "CMD_BOOT_STATE = 24". If the ACOPOS contains plug-in modules, which cause a longer boot procedure (e.g.

8AC122.60-3), then the ACOPOS startup was sometimes falsely aborted in this phase with the following error:

- 32204: Timeout while reading par. via acyclic channel (is the drive in the network ?)

NC Software - ACP10 V2.270

ID#248555 : solved problem, solved since V2.270

8B0Pxxxxxxxx.xxx-x: Braking resistor temperature model: The calculated temperature TEMP_BLEEDER was too low

If braking resistors (e.g.: 8B0Wxxxxxxxx.xxx-x) were operated on 8B0Pxxxxxxxx.xxx-x modules, then the braking resistor temperature model indicated a TEMP_BLEEDER temperature that was up to 2x too low. This made it possible to put a load on the braking resistors that was beyond the specification.

If the braking resistor used was not dimensioned correctly, then one of the following messages could be displayed due to error correction:

- 41041: Bleeder temperature model: Over-temperature
- 9040: Bleeder temperature model: Over-temperature - Movement stop

If the braking resistors with the product ID 8B0Wxxxxxxxx.xxx-x are used and the warning or error mentioned above occurs, then the messages can be avoided in V2.270 and higher by using pre-initialized parameter groups. This can be done by adding the parameter groups "8B0Wxxxxxxxx.xxx-x" to an ACOPOS parameter table in Automation Studio in V2.270 and higher.

IMPORTANT:

Using these parameter groups in a version older than V2.270 can result in loads being placed on the braking resistors that are beyond the specification.

ID#256172 : new function since V2.270

SG4 target system, POWERLINK: Determination of ACOPOS hardware information

For determination of ACOPOS hardware information the new NC action "ncSERVICE_ncACOPOS_INFO" is offered for NC objects with type "ncAXIS" and "ncV_AXIS".

Before calling this NC action the address of a variable with data type "ACP10HWINFO_tpy" must be entered in "network.service.data_adr".

After call of this NC action the ACOPOS hardware information is copied into this variable.

The following information is offered for ACOPOS module, plug-in cards and motors:

- Model number
- Serial number
- Revision

ID#253492 : new function since V2.270

Deceleration ramp after occurrence of a drive error: New mode "ncCTRL_OFF"

With "move.stop.drive_error.decel_ramp = ncCTRL_OFF" after occurrence of a drive error the power section will be switched off immediately (the drive has no electrical torque).

ID# 400048696, 400063943 : new function since V2.270

New NC actions for the Basic Network Initialization

For the NC object with type "ncNET_GLOBAL" the new NC actions mentioned below are offered to trigger the for Basic Network Initialization (function for collective startup of all ACOPOS modules which are configured).

ncNETWORK, ncINIT: Collective network initialization without reset

The ACOPOS startup is carried out only for those ACOPOS modules, for which the cyclic network communication is not active.

ncNETWORK, ncINIT+ncRESET: Collective network initialization with reset

The ACOPOS startup is carried out for all ACOPOS modules. For those ACOPOS modules, for which the cyclic network communication is active, a reset is applied.

ID#258772 : solved problem, solved since V2.270

Field weakening characteristic curve for permanent magnet synchronous motors can be incorrectly configured

The field weakening characteristic curve for permanently excited synchronous motors will be incorrectly initialized if the DC bus voltage is changed after the motor parameters have been set.

ID#254925 : solved problem, solved since V2.270

8B0Pxxxxxxx.xxx-x: Error number 7217 was mistakenly reported. (only in V2.230 - V2.269)

The following error could be mistakenly reported if a braking resistor with a resistance value greater than 150 ohms was connected to a passive power supply module.

- 7227: Bleeder: Overcurrent

ID#400062284 : solved problem, solved since V2.270

80Vxxxxx.xxxx-xx: Error number 7217 was mistakenly reported.

The following error was mistakenly reported if the parameter PHASE_MON_IGNORE was set to the value 1 and the DC bus voltage UDC_FILTER was higher than 80V:

- 7217: DC bus: Nominal voltage detection: Voltage too high

NC Software - ACP10 V2.264

ID#264877 : solved problem, solved since V2.264

ACOPOSMulti 8BVx0xx0HxSx.000-1: Increased thermal load on components in the power supply for IGBT driver circuits (only in V2.250, V2.260, V2.261, V2.262, V2.263, V2.270, V2.271 and V2.280)

In ACOPOSMulti modules 8BVI0220HxSx.000-1, 8BVI0330HxSx.000-1, 8BVI0440HxSx.000-1, 8BVI0880HxSx.000-1, 8BVI0220HWS0.001-1, 8BVI0440HCS0.001-1, 8BVI0880HCS0.001-1, 8BVP0220Hx00.000-1, 8BVP0440Hx00.000-1, 8BVP0880Hx00.000-1 using the versions listed above increases the thermal load on components in the power supply for IGBT driver circuits. This can cause an error message or even a defect in the module hardware. The modules also display a significant increase in 24V power consumption.

The defect of an ACOPOSMulti module caused by the problem described above can lead to the following errors:

- 6045: Power stage: X5 connection: No power flow

- 6052: Power stage: High-side: Overcurrent

- 6053: Power stage: Low-side: Overcurrent

When using inverter modules, this can cause the motor to spin out. When using power supply modules, this can cause the fuses connected upstream to be triggered.

Note:

If there is no defect of an ACOPOSMulti module, then it is only necessary to upgrade to an ACP10 software version in which the problem has been corrected. No other measures are necessary.

ID#264847 : solved problem, solved since V2.264

8BVIxxxxxSx.xxx-x: IGBT temperature sensor inputs were not monitored (only in V2.250 - V2.263, V2.270, V2.271 and V2.280)

Only one temperature sensor was monitored on ACOPOSMulti inverter modules with three temperature sensors (e.g.: 8BVIxx0660Sx.xxx-x, 8BVIxx0880Sx.xxx-x, 8BVIxx1650Sx.xxx-x).

This can damage the IGBT if strong currents occur during standstill.

ID#264837 : solved problem, solved since V2.264

ACOPOSMulti: Temperature sensor inputs supplied invalid values (only in V2.250 - V2.263, V2.270)

8BVPxxxxxxx.xxx-x:

The temperature sensor inputs on encoder plug-in module 2 and on the X1 plug supplied invalid values.

8BVIxxxxxSx.xxx-x:

The temperature sensor input on encoder plug-in module 2 supplied invalid values.

NC Software - ACP10 V2.263

ID#255007 : solved problem, solved since V2.263

8AC125.60-1: Error 7100 during startup (only in V2.260 - 2.262)

From V2.260 on, during the ACOPOS startup it is tried to access the encoder data memory by writing "EPROM_ID+slot = 1" (slot: Slot of the plug-in card). When using the ACOPOS plug-in card 8AC125.60-1 writing of "EPROM_ID+slot = 1" falsely caused the following error:

- 7100: Parameter function not supported. (Module ?)

NC Software - ACP10 V2.262

ID#253677 : solved problem, solved since V2.262

8B0Pxxxxxxx.xxx-x: ERR LED or RDY LED blinking and auxiliary supply modules were not switched on (only in V2.230 - V2.261)

After connecting the power mains, 8B0Pxxxxxxx.xxx-x modules sometimes failed to enter the "Ready" state. This was indicated by the red ERR-LED or the green RDY-LED blinking and the auxiliary supply modules not being switched on. As a result, all of the modules connected to the auxiliary supply modules also remained off (PLC CPU, inverter modules, etc.).

If the PLC CPU was not supplied with the auxiliary supply module but with an external 24V voltage, then the 8B0Pxxxxxxx.xxx-x module reported the following error:

- 7210: DC bus: Charging: Voltage unstable

This problem occurred primarily under high, unbalanced and distorted mains voltage (e.g.: 3x480VAC 60Hz).

NC Software - ACP10 V2.261

ID#400062286 : solved problem, solved since V2.261

ACOPOSmicro Servo 80VD100xx.C0xx-01: Error 7222 was reported to early

Due to an error in the DC bus current monitoring, the following error was reported already at 15A instead of 30A:

- 7222: Power stage: Connection X5: Ground fault

ID#252920 : solved problem, solved since V2.261

8Vxxx.xx-x: No movement stop procedure if power failure occurs (only in V2.250 - V2.260)

A movement stop procedure was sometimes not executed if the power failed on ACOPOS modules (8Vxxx.xx-x) and the DC bus voltage dropped rapidly or phase failure monitoring was disabled (PHASE_MON_IGNORE = 1).

NC Software - ACP10 V2.260

ID#400060980 : solved problem, solved since V2.260

Warning 39001 when using Hiperface encoders (only in V2.231 - V2.250)

When using Hiperface encoders, the encoder position was sometimes initialized incorrectly by 1/4 of the signal period. This position error was recognized and corrected after moving one signal period. Additionally the following warning was displayed:

- 39001: Encoder: Position correction active

The problem could arise only if the absolute positions of the Hiperface encoders were changed not conform to the analog signals.

ID#250405 : solved problem, solved since V2.260

8AC130: In mode "ncINC" reference pulse detection was deactivated wrongly by setting "ENCOD_OUT_PARID = 0".

ID#400058883 : solved problem, solved since V2.260

No error message, although drive in error state, when switching controller on

In certain error states, when switching on the controller, the cyclic status bit16 (error record not read) was not set. As a result sometimes no error message was registered.

ID#400055646 : solved problem, solved since V2.260

SDC axes, Cam Profile download: The error info was sometimes not displayed

For SDC SDC axes a Cam Profile download is processed in the cyclic NC manager task, if the Cam Profile data are handed over via "data_adr" and "data_len". If during such a Cam Profile download in the cyclic NC manager task a response error occurred, then the error info was not copied into "message.record.info" of the corresponding NC object.

In the Network Command Trace the error info was displayed correctly.

ID#249602 : new function since V2.260

Setup for controller: New parameter "orientation"

From now on, the setup procedure also supports axes which are subject to any external torque (hanging load, etc.), if "orientation = ncVERTICAL" is set.

ID#400045220 : new function since V2.260

Motor Holding Brake Control: Automatic functional test of the holding brake torque when switching on the drive controller is supported

NC Software - ACP10 V2.250

ID#400056880 : solved problem, solved since V2.250

AC114 POWERLINK, network coupling to POWERLINK participant

When linking to another POWERLINK station, which is not an ACOPOS device, sometimes only every second value will be applied.

ID#245942 : new function since V2.250

ACOPOSMulti with SafeMC: Safety Release V1.4 is supported.

ID#400053666 : new function since V2.250

Setup for controller: New value for "mode"

In mode "ncSPEED+ncUSE_FILTER_PAR" the determination of the controller parameters is accomplished with the preset filter parameters (ISQ filter, speed filter).

ID#245270 : solved problem, solved since V2.250

The Motor sometimes accelerated during a movement stop.

If the position controller was not enabled, for reasons such as
 - the position controller was disabled using the parameter PCTRL_ENABLE_PARID or
 - only the speed controller was enabled with CONTROLLER_MODE = 4
 and an additive speed was enabled during the movement stop with the parameter SCTRL_ADD_SET_PARID, then the motor would be accelerated to twice its speed during the movement stop.

ID# 400038187, 400055918 : solved problem, solved since V2.250

Ref pulse check with the 8BAC0123

NC Software - ACP10 V2.242

ID#247800 : solved problem, solved since V2.242

8BAC0124.000-1, 8AC120.60-1, sine-cosine encoder: Incorrect absolut positon within a signal period (only in V2.240 and V2.241)

When using a sine-cosine encoder without reference pulse as absolute encoder, it may come to an incorrect position within one signal period.

NC Software - ACP10 V2.241

ID#245512 : solved problem, solved since V2.241

POWERLINK communication problems during startup

In rare cases, some ACOPOS devices may not be added to the POWERLINK communication cycle during startup.

ID#400054555 : solved problem, solved since V2.241

ACOPOSMulti with SMC (Safe Motion Control) and frame reduction to single axis, coupling with cyclically coupled objects is not possible

A cyclic coupling is rejected with error 1013.

ID#400056175 : solved problem, solved since V2.241

8BxPxxxxxxx.xxx-x: Thermal overload possible (only in V2.240)

The following temperature and load monitoring functions were mistakenly disabled:
 - Continuous current load LOAD_CONT_CURR
 - Peak current load LOAD_PEAK_CURR
 - Motor temperature model and temperature model for mains components TEMP_MOTOR_MODELL
 Modules could be damaged if rated current was applied to ACOPOSMulti power supply modules.

NC Software - ACP10 V2.240

ID#400053626 : solved problem, solved since V2.240

ISQ-Ripple identification: The data were calculated wrong for "ENCOD_COUNT_DIR = ncINVERSE".

ID#400053501 : solved problem, solved since V2.240

Powerlink Network Coupling, ACOPOSMulti, Error 33002: Floating-Point exception

Receiving a cyclic network position with very small fractional part (<1.175e-38) the error 33002 occurred.

ID#400050040 : solved problem, solved since V2.240

Multiturn absolute encoder, homing with ncHOME_OFFSET, wrong unit position

With certain settings of the load scaling (load.units/load.rev_motor) and a large number of encoder revolutions, the unit position was calculated incorrectly during initialization and after a homing procedure with ncHOME_OFFSET

ID#242947 : new function since V2.240

Handling of MTC data (Motion Trace Configuration)

For handling of trace configurations with MTC format the following actions are offered for the NC object with type "ncMULTI_AX_TRACE":
 - "ncMTC, ncLOAD"
 - "ncMTC, ncSAVE"

ID#400039751 : new function since V2.240

8BAC0120.000-1, 8BAC0121.000-1, 8BAC0124.000-1: The ADC calibration values are supported

ID#400052353 : new function since V2.240

8AC0121.60-1, 8BAC0121.000.1: Hiperface encoder with extended type label are supported.

ID#400041065 : new function since V2.240

8AC125.60-1, BiSS Encoder:

Support for register read/write access. Support for alarm and warning bits

ID#400047158 : new function since V2.240

8AC125.60-1, BiSS Encoder: Support for register read/write access

ID#243530 : solved problem, solved since V2.240

Motor temperature model: Warning 41070 or error 9070 was mistakenly reported

If the value of the parameter MOTOR_CURR_RATED was greater than the value of the parameter MOTOR_CURR_STALL, then the following warning or error was mistakenly registered under minimal load:

- 41070: Motor temperature model: Overtemperature
- 9070: Motor temperature model: Overload - Movement stopped

ID#243525 : solved problem, solved since V2.240

8Bxxxxxxxxx.xxx-x, 8Cxxxxxxxxx.xxx-x, 80Vxxxxxx.xxx-x: Change in the DC bus nominal voltage detection UDC_NOMINAL

From now on, the nominal DC bus voltage UDC_NOMINAL will not be detected until after the main relay has been closed.

This causes a slightly larger nominal DC bus voltage UDC_NOMINAL to be detected (approx. 5%).

As a result, if a power failure occurs, the main relay will open up at a larger DC bus voltage UDC_ACT (approx. 5%), which means that the auxiliary supply module and all inverter modules will be shut off sooner.

ID#243520 : solved problem, solved since V2.240

8Vxxxx.xx-x: External braking resistor: Connection RB+ and RB-: Open circuit test: Warning 38008 was not reported

If the braking resistor circuit failed, it could happen that the following warning wrongly was not reported:

- 38008: Bleeder: No current flow

The filtered DC bus voltage UDC_FILTER will now be used for testing instead of the DC bus voltage UDC_ACT.

ID#243185 : solved problem, solved since V2.240

NO automatic activation of the short-circuit stop when switching off only one ENABLE input (STO1)

If

the parameter ENABLE_CONFIG was set 1 or a SAFETY module was used (ENABLE_CONFIG automatically set to 1) and the parameter F_SWITCH or ICTRL_MODE was set after setting the parameter ENABLE_CONFIG, then

a short-circuit stop would NOT be started when switching off only one ENABLE input.

ID#400050570 : solved problem, solved since V2.240

8BVlxxxxxxxxx.xxx-x: Error 4005 was mistakenly reported. (only in V2.180 - V2.239)

The following error was mistakenly reported if the parameter MAINS_SWITCH_PARID was set to CONST_I4_ZERO on an inverter module:

- 4005: Controller cannot be switched on: Drive in error state

ID#241040 : solved problem, solved since V2.240

Setup for controller: Improvements for mode "ncFF..."

If the setup function in "ncFF..." mode was aborted, then the movement was stopped with the current deceleration if the stop configuration ncA_LIMIT (+ncT_JOLT) was set. In some cases, this could take a long time. The stop movement is shortened by using the maximum for the current deceleration and the respective acceleration limit values.

Previously, the acceleration would be increased in "ncFF" mode after every forward and backward movement until the maximum determined current was reached. To shorten the identification procedure, this is now done after every movement. Furthermore, the acceleration for which the specified current has not yet been reached will be used for identification.

Under certain circumstances, the wrong result parameters were determined in "ncFF" mode. This was caused by an incorrectly calculated sample time (multiple of 200us). The sample time will now be calculated as a multiple of 400us.

ID#240100 : solved problem, solved since V2.240

8AC120.60-1, 8BAC124.000-1, 8BAC120.000-1 : Position step during initialization of encoder (only in V2.170 - V2.23x)

Due to this problem one of the following errors could be registered:

- 6048: Motor holding brake movement monitor: Position error too large
- 7033: Encoder: Incremental position step too large

NC Software - ACP10 V2.232

ID#400051518 : new function since V2.232

8AC120.60-1, 8BAC120.000-1: EnDat01 encoder: Monitoring of the multiturn position

ID#241907 : solved problem, solved since V2.232

Active SW limits, movement with cyclic position set values: Stop bit was incorrectly set (only in V2.230 - V2.231)

In certain cases with cyclic position set values, the status bit12 (Stop after drive event active) was set without reaching the SW limits. Thus in these cases the wrong movement status was indicated:

- move.mode = ncSTOP
- move.detail = ncEVENT

ID#400053134 : solved problem, solved since V2.232

8B0Pxxxxxxx.xxx-x: The error 7212 and 7211 were incorrectly reported (only in V2.220 - V2.231)

The following error was sometimes incorrectly reported when switching on the mains:

- 7212: DC bus: High voltage drop

The following error was incorrectly reported only then, if the DC bus voltage fell below the threshold voltage 20VDC:

- 7211: DC bus: Voltage drop

Now this error is again reported correctly already then, if UDC_ACT falls below POWERFAIL_DETECT_RATIO*UDC_NOMINAL.

NC Software - ACP10 V2.231

ID#400052413 : solved problem, solved since V2.231

ACOPOSmulti with SafeMC: The errors 33002, 6058 and 6059 were falsely indicated

With longer movements (e.g. for a periodic axis) a wrong position set value was transferred to the SafeMC module. This error activated the STO safety function, if the safety related monitoring of the position lag error was switched on. This led then to the fact that the following errors were indicated:

- 33002: Floating-Point exception
- 6058: Enable1: Voltage sag
- 6059: Enable2: Voltage sag

ID#400051934 : solved problem, solved since V2.231

8AC121.60-1, 8BAC0121.000-1: Incorrectly determined encoder position

The encoder position was sometimes calculated incorrectly. It could happen a constant position error (half signal period).

NC Software - ACP10 V2.230

ID#257767 : new function since V2.230

New NC actions for NC object with type "ncMULTI_AX_TRACE"

- "ncTRACE, ncSTART+ncSAVE"
- "ncTRACE, ncSAVE"

ID#400051977 : new function since V2.230

8AC122.60-3, 8BAC0122.000-1: Resolver transformation ratio ENCOD_TRANS_RATIO

The allowed range of the resolver transformation ratio ENCOD_TRANS_RATIO was extended from [0.3..0.5] to [0.2..0.5].

Caution: The position accuracy is reduced with decreasing resolver transformation ratio.

ID#239970 : new function since V2.230

8B0Pxxxxxxx.xxx-x: Thermal monitoring of the rectifier and the chopper has been activated .

Using a passive power supply module with the following model number can cause the following errors or warning to occur:

8B0P0220Hx00.00x-1 from Rev.: H0
 8B0P0220HW00.000-E from Rev.: E0
 8B0P0440Hx00.00x-1 from Rev.: F0

9030: Junction temperature model: Overtemperature - Movement stopped
 9031: Junction temperature model: Overtemperature - Limiter active
 41031: Junction temperature model: Overtemperature

If an over-temperature error (e.g.: 9030 and 9031) occurs, then the chopper output and the CR_OK output will be switched off, the main relay opened and the RDY-, RUN- and ERR LEDs will blink synchronously in 3 second cycles. The error can only be corrected by turning the mains power off and back on.

ID#239965 : new function since V2.230

8B0Pxxxxxxx.xxx-x: External bleeder: Connection RB+ and RB-: Modification wire break test

Wire break test from V2.230:

While the controller is starting up, a test checks to see if the chopper current UDC_CHOP_CURR exceeds the limit value $0.8 * UDC_ACT / R_BLEEDER_EXT$ when the braking resistor chopper is activated briefly (20ms). If the chopper current does not exceed the limit the following warning will be registered: 38008: Bleeder: No current flow

Additional Cause/Remedy for 8B0Pxxxxxxx.xxx-x:

Braking resistor error configuration: The parameter for the resistance value of the braking resistor R_BLEEDER_EXT was set too low.

Chopper current measurement defective: Replace the ACOPOS-modul

DC bus voltage measurement defective: The real DC bus voltage value is lower than the measured DC bus voltage value UDC_ACT: Replace the ACOPOS-modul

The warning can be deactivated by setting Bit6 (0x40) in MOTOR_TEST_MODE.

Wire break test before V2.230:

While the controller is starting up, a test checks to see if the DC bus voltage drops by at least 2% when the braking resistor chopper is activated briefly (50ms).

If the DC bus voltage drops less than 2% during the test procedure the following warning will be registered: 38008: Bleeder: No current flow

ID#239955 : new function since V2.230

8B0Pxxxxxxx.xxx-x: External bleeder: Connection RB+ and RB-: Overcurrent monitoring was activated.

If the measured chopper current value UDC_CHOP_CURR exceeds the limit $1.2 * UDC_ACT / R_BLEEDER_EXT$, then the following error will be registered:

7227: Bleeder: Overcurrent

Cause/Remedy:

Braking resistor error configuration: The parameter for the resistance value of the braking resistor R_BLEEDER_EXT was set too high.

Braking resistor defective or connections RB+ and RB-: Short-circuit

Braking resistor defective or connection RB-: Ground fault RB-

Braking resistor defective: The real resistance value of the braking resistor has decreased.

DC bus voltage measurement defective: The real DC bus voltage value is higher than the measured DC bus voltage value UDC_ACT.

Chopper current measurement defective: The measured chopper current value UDC_CHOP_CURR is too high.

The overcurrent check can be disabled by setting Bit8 (0x100) in the parameter MOTOR_TEST_MODE.

Caution: Ignoring the braking resistor overcurrent can result in damage to the ACOPOS module or the braking resistor.

ID#400052075 : solved problem, solved since V2.230

Target system ARwin (AR010), POWERLINK, processor blocked for the Windows operating system during ACOPOS startup (only in V2.200 - V2.229)

During the ACOPOS startup function, after reset commands (CMD_SW_RESET, CMD_BOOT_STATE) the communication to all configured ACOPOS modules is re-established. During this procedure, in V2.200 - V2.229 the processor for the Windows operating system was blocked from the low-priority NC-IDLE task on the PLC. This could last up to 45 seconds.

From V2.230 on, the processor for the Windows operating system is no longer blocked by the NC-IDLE task during communication establishment.

ID#400051954 : solved problem, solved since V2.230

U/f Control: CONTROLLER_MODE = ncUF: Speed-jump and current-jump (only in V2.210 - V2.229)

In control mode U / f control (CONTROLLER_MODE = ncUF) could mistakenly occur a speed-jump and current-jump.

ID#239290 : solved problem, solved since V2.230

Setup: Motor phasing: The setup process sometimes failed to complete.

If one of the following error numbers was reported during the setup process, then the setup sometimes failed to complete.

4005: Controller cannot be switched on: Drive in error state

6036: Motor parameters missing or invalid

ID#400050244 : solved problem, solved since V2.230

Parameter identification induction motor:

The internal voltage calculation was sometimes insufficient for identification due to very low stator resistances.

ID#400050297 : solved problem, solved since V2.230

CURVE-FB Mode 3 with predefined 0xFFFF curve: Wrong limitation

With negative input values, the outputs CURVE_VALUE_REL_I4 and CURVE_VALUE_REL_R4 were limited wrongly at 0, instead of at the negative curve interval.

NC Software - ACP10 V2.220

ID#236162 : new function since V2.220

Setup ISQ-Ripple for automatically determining the parameters for the ISQ-Ripple compensation

New NC structure component "setup.isq_ripple".

New NC actions "ncSETUP+ncISQ_RIPPLE,ncSTART" und "ncSETUP+ncISQ_RIPPLE,ncSAVE".

ID#400053009 : solved problem, solved since V2.220

8BAC120.000-1 : EnDat 2.2: Floating-Point-exception while initializing a LC415 linear encoder

Due to this problem one of the following error numbers could be registered: 33002

ID#400058774 : known problem since V3.00.90.01, correction planned for V3.00.90.02

SG4 target system with AR A3.08 or higher: Error 9650 when using ACP10 before V2.220

After optimizations some system functions are no longer contained in AR versions A3.08 or higher, which are needed by ACP10 versions before V2.220. If a ACP10 version before V2.220 is used with AR versions A3.08 or higher, then the following error is indicated during the

project transfer or registered in the Logger during the PLC startup:
 - 9650: Library function not available (System GOT)

For AR versions A3.08 or higher only the ACP10 versions V2.220 or higher can be used.

ID#400048567 : solved problem, solved since V2.220

Cam profile automat: Speed jump with trigger event

Under the following conditions, a speed jump could occur: Change of state into compensation gears, trigger event with attribute ncAT_ONCE, activating the trigger with CMD_DIG_IN_FORCE

ID#400034848 : solved problem, solved since V2.220

8B0Pxxxxxxx.xxx-x: The error 7200 or 7225 was wrongly registered.

Passive power supply unit (8B0P): After opening of the main relay, the chopper output for brake resistor was wrongly disabled. Thus it could happen that one of the following error was registered:

- 7200: DC bus: Overvoltage
- 7225: DC bus: Overvoltage

NC Software - ACP10 V2.211

ID#236275 : solved problem, solved since V2.211

8BPVxxxxxxx.xxx-x: The phase fail monitoring was falsely disabled (only in V2.210)

ID#400049068 : solved problem, solved since V2.211

ACOPOS 8Vxxx.xx-x und ACOPOSmulti 8B0Pxxxxxxx.xxx-x: External bleeder: The warning 38008 was wrongly registered. (only in V2.210 and V2.219)

When switching on the controller the following warning was wrongly registered:

- 38008: Bleeder: No current flow

ID#235820 : solved problem, solved since V2.211

ACOPOSmulti with SafeMC: The errors 6058 and 6059 were falsely indicated

With longer movements (e.g. for a periodic axis) a wrong position set value was transferred to the SafeMC module. This error activated the STO safety function, if the safety related monitoring of the position lag error was switched on. This led then to the fact that the following errors were indicated:

- 6058: Enable1: Voltage sag
- 6059: Enable2: Voltage sag

ID#400046005 : solved problem, solved since V2.211

Setup for controller: Error message because of too high speed limit values in relation to motor rated speed

If AXLIM_V_POS/AXLIM_V_NEG exceeds MOTOR_SPEED_RATED (converted into [Units/s]) the following error was wrongly reported:

- 70: Value of a necessary parameter too high

NC Software - ACP10 V2.210

ID#400045077 : new function since V2.210

Encoder Emulation: With ENCOD_OUT_OFFSET, it is possible to offset the reference to a revolution.

Encoder Emulation: With ENCOD_OUT_OFFSET, it is possible to offset the reference to a revolution.

ID#233472 : new function since V2.210

SG4 target system: ACP10 software versions V2.210 or higher can be used only with AR versions V2.82 or higher

If an ACP10 software version V2.210 or higher is used with AR versions before V2.82, then "ACP10MAN: SG4 AR <V2.82" will be entered in the AR logger and the initialization of ACP10 software will be aborted.

For AR versions before V2.82 only the ACP10 software versions before V2.210 can be used.

ID#400020142 : new function since V2.210

ERRESP_UDC_POWERFAIL

The parameter ERRESP_UDC_POWERFAIL was not able to be read and reset to the default value 1.

ID#400047934 : solved problem, solved since V2.210

Using SDC axes with task class cycle time lower than 1ms caused error 32200/32201 with info 20919

If SDC axes were used with a task class cycle time lower than 1ms, then one of the following errors with info 20919 was falsely indicated:

- 32200: Error calling plAcycWrite() (read parameter)
- 32201: Error calling plAcycWrite() (write parameter)

ID#234155 : solved problem, solved since V2.210

Encoder interface BAC124/AC120: Error 7033 when setting the encoder unit system (only in V2.190 - V2.201)

When setting the unit system of an encoder, the error 7033 "Encoder: Incremental position step too large" was sometimes reported incorrectly.

ID#234090 : solved problem, solved since V2.210

8BVx1650xxx.x-: The error 6054 was mistakenly not reported.

If the absolute value of the phase currents VCTRL_Ix has exceeded the limit $1.62 \cdot \text{ACOPOS_CURR_MAX}$, then the error 6054: "Power stage: Overcurrent" was mistakenly not reported.

ID#400046980 : solved problem, solved since V2.210

SG4, POWERLINK V1: ACOPOS reset led in rare cases to network failure for other POWERLINK stations (only in V2.160 - 2.201)

Transfer of the reset commands CMD_SW_RESET or CMD_BOOT_STATE to all connected ACOPOS modules during the basis initialization (function for startup of all ACOPOS modules connected to the network), in rare cases could lead to network failures (loss of cyclic communication) for other POWERLINK stations.

ID#400046961 : solved problem, solved since V2.210

ACOPOSmulti with SMC (Safe Motion Control), coupling with cyclically coupled objects is not possible

A cyclic coupling is rejected with error 1013.

ID#400046421 : solved problem, solved since V2.210

8BVP and 8B0P: Error 7221 and 7211 (only in V2.180 - V2.209)

The error 7221 or 7211 was sometimes registered if simulation was enabled on channel 2 of a power supply module (8BVP or 8B0P).

ID#400046731 : solved problem, solved since V2.210

Wrong target position using movement with period CMD_MODULO_MOVE (MC_MoveAbsolute)

Under the following conditions CMD_MODULO_MOVE reached a wrong target position:

Call of CMD_HOMING (MC_Home) before MODULO_PERIOD (MC_BR_InitModPos) and a homing position greater than 1073741824 or negative.

ID#400045522 : solved problem, solved since V2.210

ACOPOSmulti, Multi Axes Trace with multiplexed stations, misalignment of recorded trace data

When using multiplexed stations, different system times were applied from the individual stations. This could cause an offset in the trace data recorded during Multi Axes Trace functions.

ID#400041098 : solved problem, solved since V2.210

8BAC0123.00x-1: Reference Pulse which where not synchronized to A=B=high, weren't detected.

With ENCOD_INC_MODE Bit 9 = 1 a edge sensitive Detection of the Reference can be activated. At a Reference Pulse width higher than 90° there direction-dependend Reference positions can occur.

NC Software - ACP10 V2.201

ID#400045336 : solved problem, solved since V2.201

Position jump with basis movement and mode "stop after trigger"

Under the following conditions a position jump could occur at the end of an absolute movement with trigger stop: The trigger occurred just before the target position, a short remaining distance and a high value of jolt time.

ID#231827 : solved problem, solved since V2.201

8BAC120.001: EnDat 2.2: Encoder Error 6057 while reading diagnostic values (only in V2.170 - V2.200)

A data transfer error occurs while sending EnDat2.2 additional information if diagnostic values are supported by the encoder and no diagnostic values are activated. Due to this problem the following error number could be registered:

- 6057: Position loop controller: Load encoder error

ID#400045205 : solved problem, solved since V2.201

Motor holding brake control with movement monitor: Error 6048 when setting the encoder unit system (only in V2.190 - V2.200)

When setting the unit system of the motor encoder, the error 6048 "Motor holding brake movement monitor: Position error too large" was sometimes reported incorrectly. This error occurred only in the use of motors with holding brake.

ID#400042675 : solved problem, solved since V2.201

Induction motor: Uncontrolled movement if MOTOR_CURR_ROT_DIR = ncINVERSE

An uncontrolled movement occurred when turning on the controller if the rotational direction of the encoder on an induction motor was not the same as the rotational direction of the current and if the rotational direction of the current was inverted with the configuration

MOTOR_CURR_ROT_DIR = ncINVERSE.

ID#134315 : solved problem, solved since V2.201

The parameter MOTOR_BRAKE_CURR_RATED was falsely set to the value 1 during the boot procedure of the ACOPOS operating system.

NC Software - ACP10 V2.200

ID#227145 : new function since V2.200

Multi Axes Trace: Trigger data point without test data point

Now the configuration of a trigger data point for an axis is possible, even if for this axis of test data point is defined.

So far in this case the following error was indicated:

- 2004: Trace start not allowed: No trace test data defined

ID#230192 : solved problem, solved since V2.200

8BAC120.001: EnDat 2.2: Increased dead time while determining position (only in V2.170 - V2.19x)

In V2.170 - V2.19x, 150µs too much dead time were falsely used for determining the position. Due to this problem one of the following error numbers could be registered: 6054, 9030, 9300, 41031.

ID#400043093 : solved problem, solved since V2.200

Multi Axes Trace: Misalignment of the recorded trace data

Now the trace is started synchronously on all configured axes. Thus a misalignment for the trace recording of the different axes is avoided.

So far a misalignment for the recorded trace data could arise, if the network cycle time and the sampling time were greater than 400µs.

NC Software - ACP10 V2.191

ID#230417 : solved problem, solved since V2.191

Movement start after movement stop (only in V2.130 - V2.190)

If NC actions were called in a higher task class than defined in the NC configuration as "Task class for NC manager task", then the problem described below could arise.

If the NC action for movement stop was called in the same task class cycle after the NC action for the movement start, then first the movement stop parameters were transferred to the drive and afterwards all movement start parameters.

This was not correct, because the NC control for the movement stop was called after the NC action for the movement start. Now in this case the movement start parameters are not transferred to the drive after processing of the movement stop.

NC Software - ACP10 V2.190

ID#226562 : new function since V2.190

Setup phasing for automatically determining the commutation offset

New NC structure component "setup.motor_phasing".

New NC actions "ncSETUP+ncMOTOR_PHASING,ncSTART" und "ncSETUP+ncMOTOR_PHASING,ncSAVE".

ID#226505 : new function since V2.190

Motor holding brake: Movement monitoring with engaged holding brake

Initial activation of movement monitoring no longer occurs after the first time the holding brake is engaged, but rather after the holding brake is configured, when the encoder is ready. The error 6048 is registered if a movement takes place in this state.

ID#226400 : new function since V2.190

Motor holding brake: if an external voltage over 24V is applied during closed condition, error 6063 is reported from now on.

The voltage monitoring at closed holding brake can be deactivated by setting BRAKE_MODE Bit6 = 1.

ID#400039030 : new function since V2.190

8B0P: Passiv power supply: The error 7215 will be reported if at least one phase of the power line fails.

ID#400037391 : new function since V2.190

Positon jump detection for BAC120, AC120, BAC123 and BAC124

ID#400042277 : solved problem, solved since V2.190

Encoder Interfaces 8AC120.60-1, incremental encoder: The absolut positon is set to 0 after writing PARID_SCALE_ENCOD_INCR (V2.160 - V2.180)

ID#227167 : solved problem, solved since V2.190

Conversion from REAL into text now with 8 significant digits

Until now, REAL numbers were converted into a text with 6 significant digits. If REAL parameters were read from the ACOPOS into a data text and afterwards were transferred again from the data text to the ACOPOS, so far therefore the value could change.

The following NC actions were affected by this problem:

- ncSERVICE, ncREAD+ncDATA_TEXT
- ncSERVICE+ncACP_PAR, ncUPLOAD
- ncSETUP+ncMOTOR_INDUCATION, ncSAVE

ID#400041362 : solved problem, solved since V2.190

SGC target system: With AR versions V2.30 or higher global PVs could not be used as NC object

With ACP10 software versions V2.190 or higher it is possible, to use global PVs as NC object with AR versions V2.30 or higher.

For this AR system libraries had to be linked, which are not compatible with AR versions before V2.30. Therefore ACP10 software versions V2.190 or higher cannot be used with AR versions before V2.30.

If an ACP10 software version V2.190 or higher is used with AR versions before V2.30, then "ACP10MAN: SGC AR < V2.30" will be entered in the AR logger and the initialization of ACP10 software will be aborted.

ID#400040037 : solved problem, solved since V2.190

An active movement stop could be interrupted by CMD_MOVE_STOP_A2.

NC Software - ACP10 V2.180

ID#222865 : solved problem, solved since V2.180

Encoder - Emulation 8BAC0130.00x-1: The outputs of the Encoder - Emulation weren't deactivated after a network error

The outputs of the Encoder - Emulation are deactivated after a network error. This can be parameterized with PARID_ENCOD_ERROR_MODE = 1, so that the outputs stay active.

ID#400036166 : solved problem, solved since V2.180

ACOPOS, POWERLINK with AC114: Reduced send time for cyclic data from the drive

The cyclic send data from the ACOPOS was mistakenly sent with a delay of one POWERLINK cycle.
The data is now available one cycle earlier, which corresponds to the delay on the AC112.

NC Software - ACP10 V2.172

ID#400036879 : solved problem, solved since V2.172

8B0P: Error 9002

The error 9002 was mistakenly reported if the heat sink temperature on the following modules was below 14°C.

- 8B0P0440Hx00.00x-1 Rev.: C0 and
- 8B0P0220Hx00.00x-1 Rev.: E0

ID#400037963 : solved problem, solved since V2.172

NC object "ncMULTI_AX_TRACE": The data object ident was not returned after saving the trace data

After completion of the NC action "ncTRACE,ncUPLOAD+ncSAVE" with data object type "ncDATOBJ_BRMOD" the determined data object ident was not stored into the component "status.ident".

ID#400037378 : solved problem, solved since V2.172

Homing: Error 5017 was mistakenly reported.

When performing the homing procedure right after switching on the controller, the following error was sometimes reported even though the controller status was already set to ON. "Homing procedure mode not possible: Position controller inactive." The error only occurred with the homing methods ncSWITCH_GATE, ncABS_SWITCH and ncEND_SWITCH.

ID#400036766 : solved problem, solved since V2.172

EnDat2.2 BAC0120.001-x: ENCOD_DIAG_ID could not be set during controller active.

NC Software - ACP10 V2.171

ID#221257 : solved problem, solved since V2.171

After a network failure after a multi axes trace the communication sometimes could not be re-established (only in V2.170)

If a cyclic network communication failure occurred after a multi axes trace for an ACOPOS which was contained in the multi axes trace configuration, then the cyclic network communication to this ACOPOS sometimes could not be re-established.

ID#400036203 : solved problem, solved since V2.171

ACOPOS 8V and ACOPOSmulti 8B0P: External bleeder: The warning 38008 was wrongly registered (only in V2.170)

When switching on the controller sometimes the following warning was wrongly registered: "38008: Bleeder: No current flow"

ID#220377 : solved problem, solved since V2.171

Setup for controller: The Controller mode was not stored into the NC structure

After completion of the NC action "ncSETUP+ncCONTROLLER,ncSTART" the determined controller mode was not stored into the component "controller.mode".

ID#400034794 : solved problem, solved since V2.171

Cam profile automat: Incorrect parameters in one state after online change and direct start.

In certain cases, the new parameters were rejected after a consistent online change was made to parameters with AUT_ONL_PAR_LOCK and a subsequent direct start in one state.

NC Software - ACP10 V2.170

ID#218427 : new function since V2.170

Current controller: Change to automatic configuration of current controller (ICTRL_KV and ICTRL_TN)

The current controller gain is increased. The changed automatic configuration can cause the current controller to become unstable under the following conditions:

- If the configured electrical time constant MOTOR_STATOR_INDUCTANCE/MOTOR_STATOR_RESISTANCE is greater than the real electrical time constant.
- If the motor inductance MOTOR_STATOR_INDUCTANCE is considerably reduced at high currents (saturation).

An indication of high saturation is if $MOTOR_TORQ_MAX * MOTOR_CURR_STALL / (MOTOR_TORQ_STALL * MOTOR_CURR_MAX) < 0.8$.

An unstable current controller could cause over-current or over-temperature in the components being supplied with current.

In this case, one of the following error or warning numbers would be registered: 9300, 6054, 41031, 41051, 41061, 41070, 41011, 9010, 9030, 9050, 9060, 9070

If the parameter ICTRL_AUTO_CONF is set to the value 1, then automatic configuration of the current controller is reset to the original values (the same as in previous versions).

ID#218242 : new function since V2.170

ACOPOS 8V and ACOPOSmulti 8B0P: External bleeder: Connection RB+ and RB-: Wire break test

While the controller is starting up, a test checks to see if the DC bus voltage drops when the braking resistor chopper is activated briefly. If the DC bus voltage drop during the test procedure was too low, then the following warning is registered: "38008: Bleeder: No current flow"
The warning can be deactivated by setting Bit6 in MOTOR_TEST_MODE.

ID#400032009 : new function since V2.170

8BVP and 8B0P: CR_OK status stored on parameter STAT_LOAD_RELAY

Bit 2 is set in the parameter STAT_LOAD_RELAY when the power supply module's CR_OK output signal is switched on.

ID#216662 : new function since V2.170

POWERLINK (and SDC), new NC actions for ACOPOS coupling

For the network types POWERLINK and SDC the following NC actions are offered for ACOPOS coupling:

- ncNETWORK+ncSERVICE, ncACP_PAR_SEND: Send ACOPOS Parameter data on the network
- ncNETWORK+ncSERVICE, ncACP_PAR_RECEIVE: Receive ACOPOS Parameter data from the network

ID#400033737 : solved problem, solved since V2.170

Encoder interface 8AC123.60-1: Error when using an SSI encoder (only in V2.150 - V2.161)

The error 7051 "Acceleration too high (disturbance)" was falsely registered if there was an overflow of an SSI encoder's absolute position.

ID#218447 : solved problem, solved since V2.170

After a network failure during a multi axes trace the communication could not be re-established

If a cyclic network communication failure occurred during a multi axes trace for an ACOPOS which was contained in the multi axes trace configuration, then the cyclic network communication to this ACOPOS could not be re-established.

ID#218442 : solved problem, solved since V2.170

ACOPOSmulti: High CPU-load TimerInterrupt

The following error could be mistakenly reported: "6061: CTRL Speed controller: Limit speed exceeded"

ID#218272 : solved problem, solved since V2.170

The startup function for all ACOPOS modules was sometimes aborted with error 32020

If a parameter read or write error occurred for one ACOPOS during the basic network initialization (startup function for all ACOPOS modules), after the parameter BOOT_STATE was read from the ACOPOS and before the function for operating system download was started, then the startup function was falsely aborted for all ACOPOS modules with the following errors:

- 32196: Error downloading operating system to ACOPOS
- 32020: System module data could not be read from the drive during NC manager INIT

Now the startup function is only aborted for that ACOPOS, for which the error occurred.

ID#218220 : solved problem, solved since V2.170

8BAC0132.000-1: input values not limited to valid values

The wanted limit couldn't be read from PARID_INx at voltages over +10V or under -10V.

ID#400028497 : solved problem, solved since V2.170

ACOPOS with AC114, POWERLINK V2: The network coupling to the axis 2 of an ACOPOSmulti was rejected with error 1013.

ID#400033241 : solved problem, solved since V2.170

Warning 39002: "Resolver: Speed limit for 14 bit resolution exceeded" after writing parameter ID ENCOD_POLEPAIRS

In version V2.160 or higher, the warning 39002: "Resolver: Speed limit for 14-bit resolution exceeded" could be triggered after writing the parameter ID ENCOD_POLEPAIRS.

ID#400032082 : solved problem, solved since V2.170

ACOPOS with 8AC114.60-2 POWERLINK coupling

Incorrect values were copied if the connection was made using CYCLIC_DP_DATA_OFFSET on a POWERLINK frame with an uneven amount of Payload data.

ID#400029963 : solved problem, solved since V2.170

ACOPOSmulti POWERLINK coupling

An POWERLINK error could have the result that a package was received to late. This remaining offset could cause jumps in the set values, particularly when linking networking data.

NC Software - ACP10SDC Wichtige Information

ID#217737 : Important Information

ACP10SDC is only supported with Automation Studio starting with V3.0.80.

NC Software - ACP10SDC V2.220

ID#400048362 : solved problem, solved since V2.220

ACP10SDC Cam profile automat: Missing trigger event with force function

A digital trigger input, which was set with the force function (CMD_DIG_IN_FORCE), did not work as an event for the cam profile automat

NC Software - ACP10SDC V2.200

ID# 400043620, 400043760, 400044195, 400044403, 400047529 : solved problem, solved since V2.200

ACP10SDC with stepper motor modules: Error 31247 (Drive Interface: DrvOK not set from HW Module) was reported to early.

ID# 400019163, 400040068 : solved problem, solved since V2.200

ACP10SDC Status Enable:

The drive interface of an ACP10SDC axis was expanded by the data point 'StatusEnable'. The state of the data point is used only to update the status of the cyclic bit enable. There is no further functionality behind the state of the data point.

NC Software - ACP10SDC V2.171

ID#220362 : solved problem, solved since V2.171

ACP10SDC Function block PID: Depending on the task class cycle time a wrong transfer function was calculated.

ID#220357 : solved problem, solved since V2.171

ACP10SDC Function block DELAY: Depending on the task class cycle time a wrong delay time was calculated.

ID#400034717 : solved problem, solved since V2.171

ACP10SDC Extrapolation filter for actual position of encoder1 and encoder2 did not work.

A configured ENCODx_S_FILTER_TE caused a position jump on ENCODx_S_ACT_FILTER.

ID# 400035087, 400036603 : solved problem, solved since V2.171

ACP10SDC with ARNC0 and stepper motor: Operation only with standstill current caused by incorrect current selection.

NC Software - ACP10SDC V2.170

ID#400034357 : solved problem, solved since V2.170

ACP10SDC with ARsim (AR000): Error 32006 or 32007

If in a ARsim (AR000) project the function naction() was called in that task class, which was defined as "Task class for NC Manager Task" in the NC configuration, then one of the following errors could occur in rare cases:

- 32206: Cyclic channel: Read Request in spite of Wait for Response

- 32207: Cyclic channel: Write Request in spite of Wait for Response

With older versions of the ACP10 software this problem can be avoided by configuring the application task with the `ncaction()` call into another task class as "Task class for NC Manager Task".

NC Software - ACP10_MC V2.281

ID#400070355 : solved problem, solved since V2.281

MC_BR_CamTransition: Start position of the cam profile could be shifted permanently.

When MC_BR_CamTransition was used with the "CamMode" `mcTIME_BASED`, the start position of the cam profile within the master period was permanently shifted, if the FB was activated while the master axis was in standstill.

NC Software - ACP10_MC V2.280

ID#400067469 : solved problem, solved since V2.280

MC_BR_RegMarkCapture001 calculated wrong "ActPosition"

If a PLCopen axis factor which was unequal to "1" was used for an axis specified on input "Axis", the first "ActPosition" values were calculated wrongly.

ID#400067363 : solved problem, solved since V2.280

MC_BR_TorqueControl: Wrong behaviour after stop of movement during a parameter update

The following problems occurred, if an MC_BR_TorqueControl was aborted by MC_Power or MC_Stop while an online update of parameters ("InitData = TRUE") was in progress.

- The output "CommandAborted" was permanently set. All other outputs were not set.
- The FB started a movement after "Enable" and "StartSignal" were set to TRUE, but the check of the mode "+mcTIME_LIMIT" did not work.

ID#400065396 : solved problem, solved since V2.280

MC_BR_CamTransition: Wrong behaviour with "CamMode" `mcTIME_BASED`

If the MC_BR_CamTransition was used with the "CamMode" `mcTIME_BASED` the following wrong behaviours could occur:

- The output "InCam" was not set while the velocity of the master axis was changing.
- The "MasterStartPosition" within the cam profile was permanently shifted with change of the master velocity.
- The error "29217: Invalid input parameter" was reported if the value "0" was assigned to the input "MasterScaling", although this is allowed.
- The input "InitData" was ignored if it was set in the same cycle as "LeadInSignal" or "LeadOutSignal" were set.

ID#254405 : solved problem, solved since V2.280

MC_BR_MoveCyclicPosition, MC_BR_MoveCyclicVelocity: Problem after network failure or drive reset

If the FBs MC_BR_MoveCyclicPosition or MC_BR_MoveCyclicVelocity were activated again after a network failure or drive reset, they occupied a new area in the POWERLINK broadcast channel. If this broadcast channel was already fully occupied, the FBs reported an error and could only be used again after a restart of the PLC.

ID#400066266 : new function since V2.280

MC_BR_CalcCamFromPoints: Coefficient a of the first polynomial ("PolynomialData[0].a") is now set to the value "0.0"

Due to roundings a value for "PolynomialData[0].a" could be calculated which is different from "0.0" in the decimal places. If this cam profile data was transferred to an axis, the error 5304: "Format error in cam profile data" was reported.

ID#261050 : new function since V2.280

New FB MC_BR_BrakeControl

Using this function block the following commands for the holding brake can be executed. Combinations of certain commands are possible.

- Open the holding brake
- Close the holding brake
- Initialize control parameters for the holding brake
- Initialize parameters for the torque check
- Execute a torque check of the holding brake
- Get the mechanical status of the holding brake

ID#259575 : new function since V2.280

MC_BR_PowerMeter: New additional mode `mcMAX_IV_TIME`

By using the additional mode `mcMAX_IV_TIME` the MC_BR_PowerMeter can now be used with an interval duration of 10 minutes. The interval, as usual, can be finished any time by using the input "RestartInterval" or by an event configured on the input "EventInput".

ID#400061080 : new function since V2.280

MC_BR_RegMarkCapture001: New additional mode `mcCONTINUE_CONTROLLER_OFF`

By using the additional mode `mcCONTINUE_CONTROLLER_OFF` the MC_BR_RegMarkCapture001 does not report an error when the controller of the axis is switched off and continues its operation.

ID#400035061 : new function since V2.280

New FBs MC_BR_InitSendParID, MC_BR_InitReceiveParID, MC_BR_ReceiveParIDOnPLC

MC_BR_InitSendParID: Initializes sending of a ParID from a drive to the network (via MA1/2/3_CYCLIC_SEND).

MC_BR_InitReceiveParID: Initializes receiving of a ParID from the network on a drive.

MC_BR_ReceiveParIDOnPLC: Reads the value of a sent ParID (via MA1/2/3_CYCLIC_SEND) from the network into the PLC.

NC Software - ACP10_MC V2.271

ID#259502 : solved problem, solved since V2.271

Handling of cyclic data in different task classes: Page fault in the initialization phase (only in V2.180 - V2.270)

If for the handling of cyclic data another task class than the NC Manager task class is defined (this is possible from V2.180 on), then in very rare cases a page fault could occur.

ID#400064382 : solved problem, solved since V2.271

MC_BR_VelocityControl, MC_BR_MoveCyclicVelocity: Incorrect movement behavior when started outside the software limits.

If the FBs MC_BR_VelocityControl or MC_BR_MoveCyclicVelocity were activated outside the software limits, the movement behavior was not correct.

Neither an error was reported if a movement in invalid direction should be started, nor a movement which was started for the valid direction was executed. In these cases the FBs set their output "Active" or "Valid"

NC Software - ACP10_MC V2.270

ID#400064399 : solved problem, solved since V2.270

MC_BR_CalcCamFromSections swapped input parameters

The function block MC_BR_CalcCamFromPoints used the value of "Configuration.EndSlope" instead of "Configuration.StartCurvature" and vice versa, if "CamType = mcNON_PERIODIC" was configured.

ID#400061396 : solved problem, solved since V2.270

MC_CamIn: Non-periodic cam is not gone through completely

If a negative master movement took place over the left boundary of a non-periodic cam and the master moved in positive direction thereafter, the non-periodic cam was exited at its right boundary although it has not been gone through completely. Now the non-periodic cam is exited not until it was completely gone through either in positive or negative master direction.

ID#255810 : new function since V2.270

MC_ReadParameter can also be called in a INIT-SP of a task now

The function block MC_ReadParameter for reading PLCopen parameters can be called in a INIT-SP of a task now.

ID#400064099 : new function since V2.270

Axis can be used without NC INIT parameter module now

Axis can now be operated with FBs of the ACP10_MC library even if no NC INIT Parameter module is specified in the NC Mapping table.

Instead of that the correct initialization values can be assigned to the axis structure within a INIT SP of a task. If this is not done when no NC INIT Parameter module is specified, an error will occur during the automatic global initialization of the axis, which is reported by any FB which is called for this axis.

ID#400063956 : new function since V2.270

MC_BR_DownloadParSequ now also supports the format setting ncFORMAT_T14

With the function block MC_BR_DownloadParSequ also parameter sequences can be transferred now, whose parameter records are configured with the format "ncFORMAT_T14" (data text with 14 bytes).

ID#254460 : new function since V2.270

New FB MC_BR_DigitalCamSwitch

Using this FB a set of cam switches can be configured and operated. Compared with the FB MC_DigitalCamSwitch, the new function block provides additional functionality, such as output of the track on FB output, configuration of several sets of switching data and fast switching between these.

ID#254425 : new function since V2.270

New FB MC_BR_TorqueControl

This function block starts a torque movement with limited speed and provides additional functionalities compared to MC_TorqueControl.

ID#254420 : new function since V2.270

New FB MC_TorqueControl

This function block starts a torque movement with limited speed.

ID#400061907 : new function since V2.270

MC_Home waits now until the axis is initialized

The FB MC_Home reported the error 29207: "This movement type is currently not allowed" on execution before or while the internal initialization of the axis took place. Now the FB waits until the initialization procedure is completed and output "Busy" is set during this time.

ID#252640 : new function since V2.270

New PLCopen parameters 1010: MoveCyclicPosInterpolationMode and 1011: MoveCyclicVelInterpolationMode

When the FBs MC_BR_MoveCyclicPosition or MC_BR_MoveCyclicVelocity are used and the cycle time of the task class in which they are executed is bigger than the cycle time of the drive, the set value which is transferred from the PLC to the drive is interpolated there. The following interpolation modes are available:

- 0 ... interpolation is switched off
- 1 ... linear interpolation
- 2 ... quadratic interpolation (less delay time, overshoot possible)
- 4 ... quadratic interpolation (more delay time, no overshoot)

By default the FB MC_BR_MoveCyclicPosition uses the mode "2" and the FB MC_BR_MoveCyclicVelocity uses the mode "1". With the new PLCopen parameters, which can be written by the FB MC_WriteParameter and read by the FB MC_ReadParameter, the interpolation mode for both function blocks can be changed now by the user.

ID#400061322 : new function since V2.270

Stop index from the initialization parameters is now supported

It is possible now to select a stop index, whose parameters are configured in the initialization parameters of the axis, by writing the desired index to the PLCopen parameter 1013. MC_Stop then uses the selected stop configuration.

ID#400061362 : new function since V2.270

MC_AUTDATA_TYP: New element "EventStartPositionInInterval"

Up to four relative positions within the "StartInterval", which are used to generate the events ncS_START_IV1 to ncS_START_IV4, can be configured with the new element. The new events for a state transition of the cam profile automat can be used for a cyclic synchronization with the master position.

ID#400060748 : new function since V2.270

New FB MC_BR_GetHardwareInfo

This function block provides Model Number, Serial Number and Revision of drives, plug-in cards and motors, which are stored on the respective hardware component.

ID# 400061584 : new function since V2.270

MC_BR_InitCyclicRead: Mode mcEVERY_RECORD is supported

With the new mode mcEVERY_RECORD, the ParID will be configured in each cyclic telegram from the drive. This results in a constant refresh rate for the ParID value. However, the maximum number of ParIDs that can be read cyclically from a drive is reduced.

ID#400057942 : new function since V2.270

New FB MC_BR_SetHardwareInputs

Using this FB the digital hardware inputs of a real axis can be forced.

ID#400054573 : new function since V2.270

New PLCopen parameter 1012: DefaultMoveParameters

This parameter configures which values are transferred to the drive for the basis movement parameters, if the according FB input is left open or written with the value "0".

The following values are configurable for the transfer:

- mcFB_INPUTS: The value assigned to the FB input is transferred. (No change of behavior to earlier versions, Default setting)
- mcLIMIT_PARAMETERS: The directional limit values of the axis structure (limit.parameter) will be transferred.
- mcBASIS_PARAMETERS: The directional basis movement parameters of the axis structure (move.basis.parameter) will be transferred.

For the following FBs the behavior of transfer can be configured using this parameter:

- MC_MoveAbsolute
- MC_MoveAdditive
- MC_MoveVelocity
- MC_BR_MoveAbsoluteTriggStop
- MC_BR_MoveAdditiveTriggStop
- MC_BR_MoveVelocityTriggStop
- MC_BR_EventMoveAbsolute
- MC_BR_EventMoveAdditive
- MC_BR_EventMoveVelocity
- MC_Stop
- MC_Halt
- MC_BR_MoveCyclicPosition

- MC_BR_MoveCyclicVelocity
- MC_BR_VelocityControl
- MC_GearIn
- MC_GearInPos
- MC_BR_AutControl
- MC_BR_AutCommand

NC Software - ACP10_MC V2.261

ID#400061568 : solved problem, solved since V2.261

Invalid function block output status if the internal initialization of the axis was not completed

The output status of some FBs was invalid (output "Busy" was not set), if the internal initialization of the axis was not completed. This could happen e.g. after a network failure, if the active axis errors were not acknowledged.

The following FBs were affected by this problem:

- MC_BR_AutoCamDwell
- MC_BR_CamDwell
- MC_BR_CamTransition
- MC_BR_EventMoveAbsolute
- MC_BR_EventMoveAdditive
- MC_BR_EventMoveVelocity
- MC_BR_InitAutPar
- MC_BR_InitMasterParIDTransfer
- MC_CamIn
- MC_CamTableSelect
- MC_GearIn
- MC_GearInPos

NC Software - ACP10_MC V2.260

ID#400059328 : solved problem, solved since V2.260

Axes used a wrong position or velocity which is transferred via the network

Under the following circumstances a axis used a wrong position or velocity which is transferred via the network.

- The real and virtual axis of a channel of an ACOPOS on a POWERLINK Interface should use a position or velocity of different master axes or from the PLC.
- For each axis one of the following function blocks was used to configure the transfer of a position or velocity via the network.
- The function blocks which configure the transfer of a position or velocity via the network were activated simultaneously.

The following FBs were affected by this problem:

- MC_GearIn
- MC_GearInPos
- MC_CamIn
- MC_DigitalCamSwitch
- MC_BR_AutControl
- MC_BR_InitMasterParIDTransfer
- MC_BR_InitAutPar
- MC_BR_InitAutData
- MC_BR_CamDwell
- MC_BR_AutoCamDwell
- MC_BR_CamTransition
- MC_BR_RegMarkCapture001
- MC_BR_MoveCyclicPosition
- MC_BR_MoveCyclicVelocity

ID#249085 : solved problem, solved since V2.260

MC_DigitalCamSwitch: Input value was applied wrongly

The PLCopen axis factor was not considered for the input value "TrackOptions.Hysteresis".

ID#248680 : solved problem, solved since V2.260

Some function blocks were using the same send slot for two or three master axis on a CAN interface

If ParIDs of more than one master axes on a CAN interface were configured for sending via the network at the same time, the same send slot was used. This problem occurred if some of the following FBs were activated at the same time.

The following FBs were affected by this problem:

- MC_GearIn
- MC_GearInPos
- MC_CamIn
- MC_DigitalCamSwitch
- MC_BR_AutControl
- MC_BR_InitMasterParIDTransfer
- MC_BR_InitAutPar
- MC_BR_InitAutData
- MC_BR_CamDwell
- MC_BR_AutoCamDwell
- MC_BR_CamTransition
- MC_BR_RegMarkCapture001

ID#248080 : solved problem, solved since V2.260

MC_ReadAxisError: Output "Valid" was set too early

The output "Valid" was already set before the error text was completely evaluated.

ID#249710 : new function since V2.260

MC_DRIVESTATUS_TYP: New element "ResetDone"

In the data type MC_DRIVESTATUS_TYP, which is used by the FB MC_BR_ReadDriveStatus, the element "ResetDone" was added. It is set if the drive was reset before the most recent activation of the network connection and therefore all parameters must be transferred anew.

ID#249700 : new function since V2.260

New FB MC_BR_GetParIDInfo

This function block determines data type and data length for a specified ParID.

ID#249650 : new function since V2.260

MC_BR_SetupController: Orientation of the axis adjustable for controller setup

For the controller setup the orientation of the axis can now be chosen out of the following two options using the parameter "Orientation" (MC_SETUP_CONTROLLER_PAR_REF):

- mcHORIZONTAL
- mcVERTICAL

ID#246320 : new function since V2.260

New FB MC_BR_AxisErrorCollector

This function block reports the following information either for one single axis or for all axes of the system.

- The output "Error" of at least one PLCopen FB is set to TRUE
- At least one axis error was reported
- At least one axis warning was reported
- A axis is in the axis state Errorstop

ID#246300 : new function since V2.260

New FB MC_BR_ReadAxisError

With this function block the information about axis errors can be determined similar to the FB MC_ReadAxisError. Additionally it offers the following functions.

- Acknowledge all queued errors automatically
- Output all additional information about the errors
- Itemize how many errors of a certain type (axis error, axis warning, function block error) are pending.
- Explicit configuration if the error text should be evaluated or not
- Complete configuration of the error text evaluation by inputs at the function block

ID#246295 : new function since V2.260

Error numbers (ErrorID) of function blocks are entered into the axis structure now

From now on all errors of PLCopen FBs are entered into the axis structure. These error numbers are displayed at the output "AxisErrorID" of the function block MC_ReadAxisError because of that. Furthermore the error text for the error numbers can be determined now. As additional information the type of the function block is output which reported the error.

Resetting the error with the input "Acknowledge" of the function block MC_ReadAxisError has no effect on the outputs "Error" and "ErrorID" of the error reporting FBs.

NC Software - ACP10_MC V2.250

ID# 400058633, 400053279 : solved problem, solved since V2.250

MC_Home: The axis position could be wrong after a repeated execution with the mode mcHOME_RESTORE_POS

If the function block MC_Home was called with "HomingMode" mcHOME_RESTORE_POS after a calibration (MC_Home with "HomingMode" other than mcHOME_RESTORE_POS), or if it was called several times with mcHOME_RESTORE_POS the axis position could be wrong, if the actual raw position of the encoder and the ratio between the NC manager cycle time and the POWERLINK cycle time was very big.

ID#400057857 : solved problem, solved since V2.250

MC_ReadAxisError, MC_BR_ReadDriveStatus: Problem after task download in "Copy mode"

After a task download in "Copy mode" the memory area of variables, whose addresses are applied to the function block inputs "DataAddress" or "AdrDriveStatus", can change. The FBs MC_ReadAxisError and MC_BR_ReadDriveStatus however, adopted the new addresses only after a new rising edge on the input "Enable". As a consequence the variables have not been fed by the function blocks after a task download. From now on, the address is also utilized if the "Enable" input of the FB is already set.

ID#247080 : solved problem, solved since V2.250

MC_BR_RegMarkCalc001: Mode mcQUEUED did not work correctly, output values were not reset

1. When using the mode mcQUEUED, the values of the inputs "LengthError" and "PositionError" were not delayed by "ControllerParameters.ValuesForQueueing".
2. After the FB was deactivated by "Enable = FALSE", the values of some outputs remained set.

ID#400058685 : new function since V2.250

MC_Home: Further homing modes are allowed in axis state Disabled

The following homing modes are allowed also in axis state Disabled now:

- mcHOME_REF_PULSE
- mcHOME_DCM
- mcHOME_DCM_CORR

ID#244265 : new function since V2.250

MC_BR_SetupController: New setup modes available

The controller setup can now also be executed with the following modes:

- mcSPEED + mcUSE_FILTER_PAR
- mcISQ_F1_NOTCH + mcISQ_F2_NOTCH
- mcISQ_F1_NOTCH + mcISQ_F2_NOTCH + mcISQ_F3_NOTCH

ID#242762 : new function since V2.250

New FB MC_BR_CheckAutCompensation

With this FB the compensation parameters for an automat state can be checked for adherence of the limit values, and the limits of particular compensation parameters can be calculated respectively.

NC Software - ACP10_MC V2.241

ID#400054965 : solved problem, solved since V2.241

Deadlock after error at initialization (only in V2.200 - V2.240)

For some FBs an error during the automatic internal initialization led to setting the outputs "Error" and "ErrorID" for only one cycle, resetting the other outputs and not react on an activation or deactivation of their inputs "Execute" and "Enable" anymore. This situation could only be solved by restarting the PLC.

The following FBs were affected by this problem:

- MC_Power
- MC_ReadActualPosition
- MC_ReadActualVelocity
- MC_ReadActualTorque
- MC_ReadParameter
- MC_ReadBoolParameter
- MC_SetOverride
- MC_BR_InitModPos
- MC_BR_InitParSequ
- MC_BR_ReadDriveStatus

NC Software - ACP10_MC V2.240

ID#243490 : solved problem, solved since V2.240

MC_BR_RegMarkCapture001: Trigger search did not work.

If the function block MC_BR_RegMarkCapture001 was used for an axis with a PLCopen axis factor unequal to 1, the trigger search did not work, because the expected trigger position was shifted incorrectly.

ID#400054320 : solved problem, solved since V2.240

FB-Deadlock after execution of MC_Stop

Under the following circumstances it was possible that the FBs MC_WriteDigitalOutput, MC_BR_InitAutState and MC_BR_InitAutEvent got deadlocked, i.e. their "Busy" output was set but they did not execute their function:

- A movement was started by a FB.
- One of the function blocks mentioned above was activated.
- The transfer of the parameter list of the activated FB was aborted by MC_Stop

ID#400054339 : solved problem, solved since V2.240

MC_BR_MoveCyclicPosition, MC_BR_MoveCyclicVelocity and MC_GearIn reported the error 29207 erroneously

If one of the function blocks MC_BR_MoveCyclicPosition, MC_BR_MoveCyclicVelocity or MC_GearIn was activated while the FB MC_Halt was active, they reported error "29207: This movement type is currently not allowed" without cause. The same error was reported by the FBs MC_BR_MoveCyclicPosition and MC_BR_MoveCyclicVelocity if they were activated while a movement caused by MC_BR_EventMoveAbsolute, MC_BR_EventMoveAdditive or MC_BR_EventMoveVelocity was active.

ID#400053332 : solved problem, solved since V2.240

Prohibit one direction of movement

By setting the velocity limit for one direction to "0" (limit.parameter.v_pos, limit.parameter.v_neg) now movements into this direction can be prohibited. Till now, when using this setting, an error was reported, if a function block tried to start a movement into the allowed direction.

ID#241015 : solved problem, solved since V2.240

Axis state "Stopping" after "Errorstop" although MC_Stop reported "CommandAborted" (only in V2.230 - V2.232)

When the FBs MC_Reset and MC_Stop are activated while the state is "Errorstop", then MC_Stop sets the "CommandAborted" output at the end of the deceleration ramp, but the axis state changes to "Stopping".

ID#400051302 : solved problem, solved since V2.240

Input values of FBs were possibly not transferred correctly.

If the transfer of parameters of a FB was aborted by an error, it was possible, that a later called FB didn't transfer its input parameters to the drive correctly. Only FBs with an active change control of parameters were affected by this problem.

ID#243140 : new function since V2.240

New FB MC_BR_ParTraceConfig

This FB makes it possible to save and load axis trace configurations to and from data objects respectively.

ID#243110 : new function since V2.240

MC_BR_ParTrace: New command mcSTART+mcSAVE

The new command mcSTART+mcSAVE makes it possible to start an axis trace and automatically save the recorded data into a data object.

ID#400054125 : new function since V2.240

MC_BR_BrakeOperation now can also be used in axis state Errorstop

With the function block MC_BR_BrakeOperation a holding brake can now also be operated in axis state Errorstop, if the controller is switched off. So far this was only possible in axis state Disabled.

ID#241495 : solved problem, solved since V2.240

MC_BR_RegMarkCapture001: "Valid" output set incorrectly in some cases

While using the mode "mcLENGTH_ONLY", if a valid trigger is detected after invalid trigger events ("MissedTriggers" > 0), then the "Valid" output is set even though no new values (e.g. "ActLength" or "LengthError") have been output. Now "Valid" is only set if 2 consecutive valid triggers are detected and new, usable values have been calculated.

ID#241140 : solved problem, solved since V2.240

MC_SETUP_OUTPUT_REF: DataObjectIdent with wrong data type.

The structure element "DataObjectIdent" of the data structure MC_SETUP_OUTPUT_REF was of data type USINT instead of UDINT until now.

The result was a wrong value shown on this output element, if the data object index exceeded 255.

The following FBs were affected by this problem:

- MC_BR_SetupController
- MC_BR_SetupInductionMotor
- MC_BR_SetupMotorPhasing
- MC_BR_SetupIsqRipple

ID#240695 : solved problem, solved since V2.240

MC_BR_RegMarkCapture001: Manual search not ended after a valid trigger was found

When the manual search detected a valid trigger, the internal mechanism wasn't reset from search mode to normal mode.

As a result, the expected trigger position was still incorrect by the amount "LengthChange", which could easily cause valid triggers to be missed because they are assumed to be outside of the window.

ID#240650 : solved problem, solved since V2.240

MC_BR_RegMarkCapture001: Outputs were not set correctly

If invalid trigger events ("MissedTriggers" > 0) are followed by valid triggers, the "MissedTriggers" output was set to 0, but all other outputs, including "Valid", "ValidTriggers", "LengthError" and "PositionError" were not set, incremented or assigned values, or were set one or several cycles delayed.

ID#400049291 : solved problem, solved since V2.240

MC_BR_Offset, MC_BR_Phasing: FBs could report the error 29217.

MC_BR_Offset and MC_BR_Phasing reported the error 29217: "Invalid input parameter" if a "MasterParID" was assigned and "MasterParIDMaxVelocity" was set to zero on one of the FBs mentioned below .

- MC_GearIn
- MC_GearInPos
- MC_BR_AutoCamDwell
- MC_BR_CamDwell
- MC_BR_CamTransition

ID#400045757 : solved problem, solved since V2.240

MC_BR_Offset, MC_BR_Phasing: At repeated activation it was possible that only the first shift was performed.

If after the first successfully performed shift, the inputs "Enable" and "InitData" of the FBs MC_BR_Offset or MC_BR_Phasing were reset in the same cycle and were also set in the same cycle at a new activation, no further shifting was possible.

NC Software - ACP10_MC V2.232

ID#400052807 : solved problem, solved since V2.232

The axis state was changed to Errorstop although no axis error was reported (only in V2.230 - V2.231)

1) In certain cases with cyclic position set values, the status bit12 (Stop after drive event active) was set without reaching the SW limits. Due to this problem, it could occur, that the axis changed its state to Errorstop, although no axis error was reported.

2) If the drive detected that the SW limits would be really exceeded, the status bit12 was set at the beginning of the stop ramp and the axis changed its state to Errorstop. If a movement stop (e.g. with MC_Stop, MC_Power, ...) was applied by the application program while the stop ramp was active, it could happen that the expected error (5003/5004: Positive/Negative SW limit reached) was not reported.

NC Software - ACP10_MC V2.230

ID#400049666 : new function since V2.230

MC_BR_MoveCyclicPosition: Ok to specify a position outside the period of a periodic axis

Previously, only a position within the range "0 < x < period" could be specified for a periodic axis using the function block MC_BR_MoveCyclicPosition. The FB will now also accept a position outside of this range for a periodic axis. The periodic position will continue to be calculated by the ACP10_MC library. Therefore, the periodic position will also be displayed on the FB MC_ReadActualPosition. The periodic position will also be valid when starting other movement FBs. This update makes it possible to operate periodic ACP10_MC axes using ARNC0 rotary axes.

ID#239920 : solved problem, solved since V2.230

MC_BR_CamTransition: CamMode mcDISTANCE_BASED and MasterParID lead to error 29226

Parametrizing "CamMode = mcDISTANCE_BASED" and a MasterParID for MC_BR_CamTransition led to the error 29226: "Error on drive. Use MC_ReadAxisError for details".

ID#239281 : solved problem, solved since V2.230

MC_BR_VelocityControl does not revert changes, if not enough free cyclic write data available on drive

Once the function block reports error 29264: "Cyclic write data full" the axis behavior afterwards is different. Due to parameter download to the control loop via the function block. From now on the control loop will be changed afterwards, if cyclic write data have been initialized correctly.

ID#239180 : solved problem, solved since V2.230

The function blocks MC_BR_GetCamMasterPosition and MC_BR_GetCamSlavePosition could calculate a wrong output value.

After the following sequence it was possible that a wrong value was calculated by the function blocks MC_BR_GetCamMasterPosition and MC_BR_GetCamSlavePosition:

- The function block MC_BR_GetCamMasterPosition is called with a master axis with an axis factor unequal to 1 or MC_BR_GetCamSlavePosition is called with a slave axis with an axis factor unequal to 1.
- Reset of input "Execute".
- MC_BR_GetCamMasterPosition is called again without an assigned master axis or MC_BR_GetCamSlavePosition is called again without an assigned slave axis.

ID# 400036648, 400041830 : solved problem, solved since V2.230

An axis error during a movement not always led to the state Errorstop

An axis error during a movement did not lead to the state Errorstop as intended under the following circumstances:

- MC_Stop was called during the deceleration ramp
- MC_Power was disabled during the deceleration ramp
- All errors were acknowledged during the deceleration ramp

NC Software - ACP10_MC V2.220

ID#236980 : new function since V2.220

New FB MC_BR_SetupIsqRipple

MC_BR_SetupIsqRipple: Starts and stops the setup for the ISQ-Ripple compensation and saves the data determined during setup.

ID#235810 : new function since V2.220

New FB MC_BR_AutCommand

With this function block the following actions for the cam automat can be executed:

- start the automat
- stop the movement on the slave axis
- restart the slave axis after stop of the movement or abort of the movement after an axis error
- end the cam automat
- set the signals 1-4 of the cam automat
- reset the signals 1-4 of the cam automat
- transferring the parameter for the lock of the online parameter change or cam download

ID#400038858 : new function since V2.220

MC_BR_PowerMeter: The function block can now also be activated, if the controller is switched off.

The function block MC_BR_PowerMeter can also be activated now, if the controller of the power supply module is switched off. With an active power supply module no valid power data can be determined in this case, so the output "Valid" is not set or it is reset if the controller is switched off while the power evaluation is active. As soon as the controller is active again, valid data are displayed on the outputs and "Valid" is set. With the passive power supply module the determined and displayed values are always valid.

ID#400050162 : solved problem, solved since V2.220

MC_BR_PowerMeter returned no information at the output "PowerData" after a restart of the power supply module

If the function block MC_BR_PowerMeter was again called after the power supply module was restarted while the PLC was running, no information at the output "PowerData" was returned.

ID#237830 : solved problem, solved since V2.220

Function blocks with an "Execute" input did not report network failures (only in V2.200 - V2.219)

In case of a network failure the outputs "Error" and "ErrorID" of function blocks with "Execute" inputs were not set for one task class cycle, if the input "Execute" was already reset.

ID#400050132 : solved problem, solved since V2.220

MC_BR_PowerMeter reported error 29235 for PPS

If MC_BR_PowerMeter was called on a passive power supply module, it reported the error 29235.

ID#400050042 : solved problem, solved since V2.220

Deadlock after reading or writing of a single ParIDs

A deadlock of function blocks for an axis could occur, if one of the following function blocks was called shortly after a MC_BR_TouchProbe, MC_CamIn or MC_GearInPos was activated.

- MC_BR_ReadParID
- MC_BR_WriteParID
- MC_BR_ReadParIDText
- MC_BR_WriteParIDText
- MC_BR_ReadAutPosition

Other FBs subsequently report the status, "Busy," when called.

ID#400049661 : solved problem, solved since V2.220

After a MC_BR_InitModPos FB was called, the FB MC_ReadActualPosition displayed a position greater than the axis period

After a non periodic axis was changed into a periodic axis with the FB MC_BR_InitModPos, a position greater than the axis period was provided by MC_ReadActualPosition. Each NC Manager cycle the position was compensated by one period. As a result it could take some time until the correct position was shown within the period.

ID#237090 : solved problem, solved since V2.220

MC_BR_CamTransition reported an error even if correct input values were used

The function block reported the error 29217: "Invalid input parameter" though correct input values were used, if "Master" and "Slave" were axes of the same channel (e.g. the virtual axis of a channel is "Master" and the real axis of the same channel is "Slave").

ID#400049106 : solved problem, solved since V2.220

Under certain circumstances the axis state never changed to "DiscreteMotion" (only in V2.000 - V2.219)

With the following conditions the axis state did not become "DiscreteMotion":

- Cycle time of the task class in which the PLCopen FBs are called is greater than the cycle time of the NC Manager task class.
- The duration of the movement is shorter than the cycle time of the task class in which the PLCopen FBs are called.

This behaviour could lead to problems in application programs where changing the state in a state sequencer e.g. is depending on the axis state.

The following FBs were affected by this problem:

- MC_Halt
- MC_MoveAdditive
- MC_MoveAbsolute
- MC_BR_MoveAdditiveTriggStop
- MC_BR_MoveAbsoluteTriggStop
- MC_BR_EventMoveAdditive (only with "Mode = mcONCE")
- MC_BR_EventMoveAbsolute (only with "Mode = mcONCE")

NC Software - ACP10_MC V2.211

ID#400048772 : solved problem, solved since V2.211

Real and virtual axes on the same channel sometimes used SPT resources from the respective other axis

The following are a few examples of what could occur due to this problem:

1. When using the same MC_BR_EventMove FB type on real and virtual axes on the same channel, the last called FB used the same target

position, distance and speed respectively as the first FB that was called.

2 . When using MC_BR_MoveCyclicVelocity FBs on real and virtual axes on the same channel, the speed of the last called FB was used for both axes.

3 . The phase shift and offset shift for an axis are unintentionally set to 0 when the following occurs:

- Coupling FBs used on the real and virtual axis of a channel.
- One or both of the axes also uses an MC_BR_Phasing or MC_BR_Offset
- The coupling is started for one axis

The following FBs were affected by this problem:

- MC_BR_EventMoveAbsolute
- MC_BR_EventMoveAdditive
- MC_BR_EventMoveVelocity
- MC_BR_MoveCyclicVelocity
- MC_GearIn
- MC_GearInPos
- MC_CamIn
- MC_BR_AutControl
- MC_BR_CamDwell
- MC_BR_AutoCamDwell
- MC_BR_CamTransition

NC Software - ACP10_MC V2.210

ID#400047174 : new function since V2.210

MC_BR_TouchProbe now supports additional functions for trigger events

Positive edge and evaluation of the signal width using only "TriggerInput.MinWidth". The status is set and the window position is shifted after "TriggerInput.MinWidth".

Necessary parameter settings:

- TriggerInput.Edge = mcP_EDGE
- TriggerInput.MinWidth > 0
- TriggerInput.MaxWidth = 0

Time average (or latch average) value of positive and negative edge and evaluation of the signal width with "TriggerInput.MinWidth" and "TriggerInput.MaxWidth". Processing begins at negative edge.

Necessary parameter settings:

- TriggerInput.Edge = mcMIDDLE
- TriggerInput.MaxWidth > TriggerInput.MinWidth >= 0

ID#233645 : new function since V2.210

Determine exact cause of error for axes that can't be linked

If the master and slave axes specified on a link FB are not able to be linked, then the cause of error can be determined accurately now. In the past, the function block only registered the error 29200:

"The axis object is invalid" or 29298: "Error in network configuration".

Function block now outputs Error 29226: "Error on Drive", and the exact cause of error can be read as axis error using the MC_ReadAxisError function block.

This improvement has been made on the following FBs:

- MC_CamIn
- MC_GearIn
- MC_GearInPos
- MC_BR_InitMasterParIDTransfer
- MC_BR_InitAutPar
- MC_BR_InitAutData
- MC_BR_CamTransition
- MC_BR_CamDwell
- MC_BR_AutoCamDwell
- MC_BR_AutControl
- MC_BR_MoveCyclicVelocity
- MC_BR_MoveCyclicPosition

ID#233640 : new function since V2.210

Performance increase on inactive function blocks.

The call time for inactive function blocks has been minimized by optimizing the sequence in the FB. It now takes up to 70% less time than before to call inactive function blocks (average 50% faster).

ID#232650 : new function since V2.210

New PLCopen parameter 1009: Automat positioning tolerance

With MC_MoveAbsolut, a position with the internal decimal places of the automat position can be approached via mcAUTOMAT_POS in order to ensure a high-precision automat restart

If the difference between the set position and the target position on a periodic axis is smaller than or equal to the parameter 1009, then the selected direction will be ignored and the target position will be approached by the shortest distance.

ID#235310 : solved problem, solved since V2.210

Input values of coupling FBs were applied wrongly

The following input values could be applied differing by 1 unit, particularly if they were negative (e.g. -1999 instead of -2000):

- FB MC_GearInPos: MasterSyncPosition and MasterStartDistance
- FB MC_BR_CamDwell: SlaveScaling

- FB MC_BR_AutoCamDwell: SlaveLength
- FB MC_BR_CamTransition: SlaveScaling

The following input values were not multiplied by the PLCopen axis factors:

- FB MC_BR_AutoCamDwell: SlaveLength and MasterLength

ID#234175 : solved problem, solved since V2.210

MC_BR_InitAutData used either no factors or partially used the wrong PLCopen Axis Factors

The parameter "MasterSpeedMax" was not multiplied with the PLCopen Axis Factor of the master axis if a master reference and no MasterParID was used.

The parameters "MasterStartInterval", "StartMaRelPos" and "MasterCompDistance" were mistakenly multiplied with the slave's PLCopen Axis Factor, instead of the master's, if a master reference and no MasterParID was used.

ID#234165 : solved problem, solved since V2.210

MC_BR_CamTransition could trigger division by ZERO

If the value "0" or a value smaller than 1/PLCopen_ModPos factor was specified on the "MasterInterval" input, then MC_BR_CamTransition caused a division by ZERO. Now when this occurs, error 29217 "Invalid input parameter" will be registered.

ID#233390 : solved problem, solved since V2.210

When a FB error occurred, the slave stayed coupled to the master, but its axis status was set to Standstill

Coupling function blocks that detected an error didn't stop the slave axis, but changed the axis state to Standstill. Now the slave is stopped when an error occurs.

Affected FBs:

- MC_BR_CamDwell
- MC_BR_AutoCamDwell
- MC_BR_CamTransition
- MC_BR_AutControl (didn't change the axis status to Standstill)

ID#232660 : solved problem, solved since V2.210

MC_WriteParameter: SW end position deviates from specified value by +/- 1 unit

If the SW end positions are written with MC_WriteParameter, the effective internal values could deviate from the specified values by +/- 1 unit.

ID#232645 : solved problem, solved since V2.210

MC_MoveAbsolute: Direction + mcAUTOMAT_POS also works on non-periodic axis

The additive setting mcAUTOMAT_POS on the direction input of MC_MoveAbsolute now also works on non-periodic axes. The specified position plus the internal decimal places of the automat position is approached, which allows an automat restart to be performed with more precision.

ID# 400037129, 400038213 : solved problem, solved since V2.210

MC_Home: New homing mode mcHOME_AXIS_REF

With the new homing mode mcHOME_AXIS_REF all homing parameters in the axis structure including the position are used for homing. The input "Position" of MC_Home is not taken into account.

NC Software - ACP10_MC V2.200

ID#400039171 : new function since V2.200

Outputs were not set cyclically

With some function blocks, the outputs "Error" and "ErrorID" were not set cyclically and were able to be overwritten by the application program or in the watch window.

ID#400044390 : solved problem, solved since V2.200

MC_MoveVelocity: In rare cases "InVelocity" was not reported

In rare cases (e.g. for non-integral velocity values) it could occur that the FB MC_MoveVelocity did not set the exit "InVelocity", although the axis reached the target velocity.

ID#229990 : solved problem, solved since V2.200

Function blocks that require SPT FBs on the drive in order to function properly were possibly not able to create or access these resources

Under certain circumstances, some function blocks were not able to create or access the required SPT FB resources on the drive. This resulted in an error or incorrect behavior on the affected function blocks.

Affected function blocks:

- MC_BR_AutControl
- MC_BR_AutoCamDwell
- MC_BR_CamDwell
- MC_BR_CamTransition
- MC_BR_EventMoveAbsolute

- MC_BR_EventMoveAdditive
- MC_BR_EventMoveVelocity
- MC_BR_HomeAcpEncoder
- MC_BR_MoveCyclicPosition
- MC_BR_MoveCyclicVelocity
- MC_BR_Offset
- MC_BR_Phasing
- MC_BR_PowerMeter
- MC_BR_RegMarkCapture001
- MC_BR_TouchProbe
- MC_BR_VelocityControl
- MC_CamIn
- MC_DigitalCamSwitch
- MC_GearIn
- MC_GearInPos
- MC_Phasing
- MC_TouchProbe

ID#229980 : solved problem, solved since V2.200

Incorrect output behavior upon network failure

If communication between the drive and controller was disrupted by a network failure, then the function blocks did not perform correctly. The output "Error" was not set and the output "ErrorID" changed between the values "0" and "29265". This affected all of the function blocks from the ACP10_MC library.

ID#400035116 : solved problem, solved since V2.200

New FB MC_BR_CyclicReadDataInfo

MC_BR_CyclicReadDataInfo: Provides administrative information about the cyclic telegrams from a drive

NC Software - ACP10_MC V2.191

ID#400044414 : solved problem, solved since V2.191

MC_BR_ReadAutPosition reports error 29226 in unfavorable circumstances

After a rising edge on the "Execute" input, the MC_BR_ReadAutPosition FB reports error 29226: "Error on drive. Use MC_ReadAxisError for details" if parameters are being transferred to or from the drive at the same moment. This error was caused by the occurring axis error 32063: "Data address zero (set/read parameter via service interface)".

ID#400044704 : solved problem, solved since V2.191

MC_BR_VelocityControl: Values of inputs were not applied; Problem with NC-Test

- Now the values of the inputs "Acceleration" and "Deceleration" will be transferred to the drive.
- Now the movement which was started by the FB MC_BR_VelocityControl will not be aborted, if the NC Test for this axis is opened.

NC Software - ACP10_MC V2.190

ID#227315 : new function since V2.190

New FB MC_BR_VelocityControl

MC_BR_VelocityControl: Configures and starts a movement with cyclic velocity transfer, in which only the velocity and current controller of the drive are active.

ID#226950 : new function since V2.190

New FB MC_BR_CalcCamFromPoints

MC_BR_CalcCamFromPoints: Calculation of a polynomial cam profile from two node vectors.

ID#226935 : new function since V2.190

New FB MC_BR_CamTransition

MC_BR_CamTransition: Starts a cam profile coupling with optional entry and exit and optional transition between cam profiles. Specifying a time for the cam profile is possible.

ID#226845 : new function since V2.190

New FB MC_BR_SetupMotorPhasing

MC_BR_SetupMotorPhasing: Starts and stops the setup for phasing for an motor and saves the data determined during setup.

ID#400042928 : solved problem, solved since V2.190

MC_BR_MoveCyclicVelocity: The information of the input "Direction" was not used. (only in V2.170 - V2.180)

The direction of the movement of the axis was only depending on the sign of the value of the input "CyclicVelocity".

ID#400038891 : solved problem, solved since V2.190

MC_BR_RegMarkCapture mit Modus "+ mcINTERVAL_EVENT" not functioning correctly

Under the following conditions, the function block did not calculate the value of the output "ActPosition" correctly with the additional mode "+ mcINTERVAL_EVENT":

- All parameters required for the mode "+ mcINTERVAL_EVENT" were already set in the input structure "TriggerInput"
- The function block was activated without the additional mode "+ mcINTERVAL_EVENT"
- The input "InitData" was set after the function block was activated
- After the function block was deactivated, the mode was changed to "+ mcINTERVAL_EVENT" and then the function block was activated again

ID#400040234 : solved problem, solved since V2.190

An invalid axis reference could lead to a pagefault

The function block MC_BR_InitMasterParIDTransfer caused a pagefault, if the axes assigned to the inputs "Master" and "Slave" were not linkable.

A pagefault could also be caused by the following function blocks, if an invalid axis reference was assigned to the input "Axis" or "Slave" for one cycle:

- MC_BR_InitMasterParIDTransfer
- MC_ReadDigitalOutput
- MC_ReadDigitalInput
- MC_BR_AutControl
- MC_WriteParameter
- MC_BR_MoveCyclicPosition
- MC_BR_MoveCyclicVelocity

ID#400039347 : solved problem, solved since V2.190

It was possible that some function blocks were using the same send slot for real and virtual master

If ParIDs of the real and virtual axis of an ACOPOS communication channel were configured for sending via the network at the same time, the same send slot was used. This could happen if some of the following FBs were activated at the same time.

The following FBs were affected by this problem:

- MC_GearIn
- MC_GearInPos
- MC_CamIn
- MC_DigitalCamSwitch
- MC_BR_AutControl
- MC_BR_InitMasterParIDTransfer
- MC_BR_InitAutPar
- MC_BR_InitAutData
- MC_BR_CamDwell
- MC_BR_AutoCamDwell
- MC_BR_RegMarkCapture001

ID#400038618 : solved problem, solved since V2.190

MC_BR_InitAxisSubjectPar: PLCopen Motion Parameters have not been refreshed

If the FB MC_BR_InitAxisSubjectPar was used to initialize changed limit values of an axis, the PLCopen Motion Parameters have not been refreshed.

NC Software - ACP10_MC V2.180

ID#224520 : new function since V2.180

Cyclic data to/from the drive via POWERLINK independent of the NC Manager task class

Previously, cyclic data via POWERLINK was always handled by the ACP10_MC library in the task class configured as "Task class for NC Manager task". From now on, the following settings can be used to change the task class in which the cyclic data should be handled.

Global settings for a POWERLINK interface in the ACP10 configuration:

- Task class for handling of cyclic data with PLCopen (only for SG4)

Local settings for an ACOPOS communication channel in the NC mapping record of a real or virtual axis in the "Additional Data" column with the following XML attribute:

- PLCopen_CyclicData_TaskClass = "<TaskClass_Number>" (TaskClass_Number: 0,1,2 or 3, 0: Use NC Manager task class)

Note:

The real and virtual axis with the same node number and the same channel number are operated using the same ACOPOS communication channel. The following error is output if different task classes are defined for the real and the virtual axis from the same communication channel:

- 32499: PLCopen_CyclicData_TaskClass: Values for real and virtual axis are not equal

ID#400039568 : solved problem, solved since V2.180

Deadlock after activation of a coupling of axes on a CAN bus (only in V2.170 to V2.172)

After the activation of the coupling between two axes on a CAN bus, the master axis could not be used anymore. Other FBs subsequently reported the status "Busy" when called.

The following FBs were concerned by this Problem:

- MC_GearIn
- MC_GearInPos
- MC_CamIn
- MC_DigitalCamSwitch
- MC_BR_AutControl

- MC_BR_InitMasterParIDTransfer
- MC_BR_InitAutPar
- MC_BR_InitAutData
- MC_BR_CamDwell
- MC_BR_AutoCamDwell

ID#400038674 : solved problem, solved since V2.180

MC_BR_AutControl always Busy

If MC_Stop is called for the slave axis shortly before MC_BR_AutControl is enabled, MC_BR_AutControl always shows that it is busy, but there is no error on the Error and ErrorID outputs. Resetting the Enable input and then setting it again takes MC_BR_AutControl out of the busy status.

ID#223630 : solved problem, solved since V2.180

MC_BR_GetErrorText: The error text was eventually not determined.

If the input "Execute" of the function block MC_BR_GetErrorText was set for only a few cycles, it was possible that the error text was not determined.

ID#400037909 : solved problem, solved since V2.180

MC_BR_ReadActualPosition: After homing the new axis position was displayed too late.

After homing, the function block MC_ReadActualPosition displayed the new position of an axis one task cycle after the output "Valid" was set.

ID#400036085 : solved problem, solved since V2.180

The axis state "StandStill" was activated to early

The axis state "StandStill" was already activated after the halt command was successfully sent to the drive and not when the axis stand still by the following function blocks:

- MC_BR_AutControl
- MC_BR_AutoCamDwell
- MC_BR_CamDwell
- MC_BR_MoveCyclicPosition
- MC_BR_MoveCyclicVelocity

NC Software - ACP10_MC V2.172

ID#400037720 : solved problem, solved since V2.172

Until now, MC_BR_AutControl checked the controller status and reference status when setting signals and changing the ParLock input

The function block MC_BR_AutControl checked the controller status and the reference status when setting signals and changing the ParLock input. This caused the error number 29206 "The controller is off" or 29205 "Axis not referenced" to be output. Starting in V2.172, these two states will only be checked with movement commands (Start, Stop, Restart).

ID#400037644 : solved problem, solved since V2.172

MC_BR_AutControl sometimes reports error 29206 when Enable=TRUE

If the controller was switched off when MC_BR_AutControl was active (MC_Power or axis error), one or more signal entries were set from 1 to 0 and MC_BR_AutControl was disabled, then MC_BR_AutControl reported error 29206 "The controller is off" right after setting the "Enable" input again and as soon as an action was performed (Start, Stop, Restart, Signal1-4, ParLock).

ID#221630 : solved problem, solved since V2.172

Linked movement does not start if master position is close to DINT overflow

If the internal position of a periodic master axis was close to DINT overflow (less than 2 periods), then movements linked to this master axis would sometimes not start.

Affected FBs:

- MC_CamIn
- MC_BR_InitAutPar
- MC_BR_InitAutData
- MC_BR_AutControl
- MC_BR_CamDwell
- MC_BR_AutoCamDwell

ID#400033458 : solved problem, solved since V2.172

After DINT overflow of the master position, linked movements were no longer able to be started

Linked movements were no longer able to be started after (internal) DINT overflow of the master position of a periodic master axis. The link would only begin after the master axis (internal) had reached a positive DINT position again. The link is now started at the next possible position within the current period or in the next period if the master position is already greater than that of the start position.

Affected FBs:

- MC_BR_InitAutData (started by MC_BR_AutControl)
- MC_BR_CamDwell
- MC_BR_AutoCamDwell
- MC_DigitalCamSwitch (switching points can be shifted)

ID#400032353 : solved problem, solved since V2.172

Input values were not rounded correctly

Some of the input values of the following function blocks were simply cut off and not rounded correctly before they were transferred to the drive:

- MC_BR_AutControl
- MC_BR_AutoCamDwell
- MC_BR_CamDwell
- MC_CamIn
- MC_BR_InitAutData
- MC_BR_InitAutState
- MC_BR_InitAutPar

NC Software - ACP10_MC V2.171

ID#400034856 : solved problem, solved since V2.171

MC_TouchProbe reports error 29230 in unfavorable circumstances (only in V2.020 - V2.170)

After a rising edge on the "Execute" input, the MC_TouchProbe FB reports error 29230: "Internal error: Error at parameter list transfer" if parameters are being transferred to or from the drive at the same time.

ID#220315 : solved problem, solved since V2.171

MC_BR_MoveCyclicVelocity, MC_BR_MoveCyclicPosition: A page fault occurs if the cycle time of the NC manager task class is different than the cycle time of the POWERLINK network (only in V2.170)

A page fault occurs when there are different cycle times for the NC manager task class and the POWERLINK network to which the axes operated by the FBs are connected.

ID#220310 : solved problem, solved since V2.171

MC_BR_MoveCyclicVelocity: Commanded speed might not have been reached (only in V2.170)

The function for assigning cyclic velocity limits the velocity to the value of the basis movement parameter. This could cause a problem if a basis movement function block with a small value on the "Velocity" input was called before MC_BR_MoveCyclicVelocity. Now the FB always initializes the basis movement parameters with the limit values configured for the axis.

ID#400035270 : solved problem, solved since V2.171

MC_ReadAxisError: Error 29260 reported.

When there is no error text module specified on the "DataObjectName" input, the FB determines the error texts using the error text module that is specified in the init parameter module. This causes the FB to report the error 29260: "No data object name specified," if it is called immediately after starting the controller with "Enable = 1".

NC Software - ACP10_MC V2.170

ID#218385 : new function since V2.170

New FB MC_BR_MoveCyclicVelocity

Configures and starts a movement with cyclic velocity transfer

ID#218380 : new function since V2.170

New FB MC_BR_PowerMeter

Starts and stops the measurement of power data of an ACOPOS multi power supply module and outputs the evaluated values

ID#400031217 : new function since V2.170

MC_BR_CyclicRead: New mode mcEVERY_RECORD

With the new mode mcEVERY_RECORD, the ParID will be configured in each cyclic telegram from the drive. This results in a constant refresh rate for the ParID value. However, the maximum number of ParIDs that can be read cyclically from a drive is reduced.

ID# 400030208, 400031383 : new function since V2.170

New FBs MC_BR_ReadParIDText, MC_BR_WriteParIDText

MC_BR_ReadParIDText: The value of a ParID is read from the drive and output as text

MC_BR_WriteParIDText: The value for a ParID is passed on to the FB as text, converted to the correct data type and transferred to the drive

ID#400032741 : solved problem, solved since V2.170

Wrong axis state after error during a homing procedure

If an axis error occurs that causes the controller to be switched off immediately during an active homing procedure, then the axis mistakenly changes to the state Disabled. Now when this occurs, the axis will change to the state Errorstop as intended by the PLCopen standard.

NC Software - ARNC0 Wichtige Information

ID#257892 : Important Information

NC Manager task-class Stack Usage

When running in Automation Runtime B3.01 (or higher) ARNC0 versions 1.05.2 and higher utilise a cyclic task class (TC#1 or starting with V1.25.1 the NC Manager task-class, respectively) for calculating axis set positions in real-time. Since ARNC0 uses the stack memory of that task-class, it can be necessary to increase the task-class stack size.

Especially when programming multiple coordinate system transformations (e.g. frame operations, G92, G192, G292, G53-G59, or G159) in a row -- i.e. without any movement blocks in between -- the default task-class stack size might be too small. Each coordinate system transformation consumes approximately 800 Bytes of stack memory and if they are programmed in a row the stack consumption is approximately 800*n Bytes (n being the number of subsequent coordinate system transformations).

ID#239197 : Important Information

Minimum ARNC0 version for AR A3.08 or higher

For AR versions E3.08 or higher only the ARNC0 versions V1.252 or higher can be used.

If an ARNC0 version before V1.252 is used with AR versions E3.08 or higher, then the ARNC0 initialization will be aborted (Error description in AR Logger : "NC Manager: NC Manager module not found", ASCII data: "arnc0man.br not found!")

For AR versions A3.08 or higher only the ARNC0 versions V1.220 or higher can be used.

ID#234012 : Important Information

Minimum Requirements for ARNC0 V1.20.0

Starting with ARNC0 V1.20.0 your system has to meet the following requirements:

- Automation Studio 3.0.80.25 or higher
- Automation Runtime V3.00 or higher

ID#206552 : Important Information

Minimum Requirements for ARNC0 V1.00.0

Starting with ARNC0 V1.00.0 your system has to meet the following requirements:

- Automation Studio 3.0.80 or higher
- Automation Runtime O2.95 or higher

ID#102522 : Important Information

External encoder operation

An external encoder is operated correctly only on slot 3 of the ACOPOS.

NC Software - ARNC0 V1.281

ID#400072360 : solved problem, solved since V1.281

M function programmed before blocks with zero movement distance has not been set if the rounding edges (G126) was active (only in V1.270 - V1.280).

ID#266790 : solved problem, solved since V1.281

Path-synchronous variable has not been assigned before blocks with circular interpolation if the rounding edges (G126) was active (only in V1.270 - V1.280).

ID#267500 : Information valid since V1.281

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.280
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.280
 Library Acp10man Version 2.28.0 to 2.28.9 required.

NC Software - ARNC0 V1.280

ID#263495 : solved problem, solved since V1.280

Occasional cycle time violation from TC#1

Combination of intensive subprogram calling and programming of multiple path synchronous jobs (e.g. FBs) from an NC program could cause a cycle time violation of TC#1.

ID#263115 : solved problem, solved since V1.280

Workspace monitoring - change to modelling based on the robot arm radius

Problem occurred if the protected area lay closer than the robot arm radius.

ID#400051865 : solved problem, solved since V1.280

New parameter "ipl_mode"

The new parameter "ipl_mode" in the "cnc_obj.axis.axis[i]" structure - interpolation mode for cyclic position. Parameter is valid only for ACP10 axes. The problem with a position overshoot at the end of an NC program has been solved with this new parameter.

ID# 400051713, 400051247 : solved problem, solved since V1.280

Error caused by Axis Factor not equal to 1

Axis Factor not equal 1 can be now set for ACP10 axes used in a CNC channel

ID#263630 : Information valid since V1.280

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.280

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.280

Library Acp10man Version 2.28.0 to 2.28.9 required.

NC Software - ARNC0 V1.273

ID#262650 : solved problem, solved since V1.273

Optional brackets for functions with no arguments in the alternative language 1 G-Code

In the alternative language 1 G-Code a function that does not require any arguments can be called without using brackets.

ID#262590 : solved problem, solved since V1.273

Exception 9101 - address error after <ncMOVE, ncSTOP>

Exception 9101 occurs if <ncMOVE, ncSTOP> NC action is sent before the first <ncPROGRAM, ncLOAD/ncSTART> if any additional LANG_INCLUDE files were loaded during ARNC0 startup.

ID#262575 : solved problem, solved since V1.273

Program freezes if it runs out of path synchronous commands (only in V1.251 - V1.272)

Starting with ARNC0 V1.25.1 the interpreter keeps track of all path synchronous jobs (path synchronous variable assignment, function calls) that are in the backtracing buffer (block_buffer).

The interpreter was only keeping track of a fixed amount of path synchronous jobs. The high value for <cnc_obj>.limits.block_buffer together with a high number of path synchronous jobs in an NC program caused the interpreter to run out of available jobs and freeze up.

The number of path synchronous jobs is now configurable in gmcpcfg in <MPQUEUE> section.

ID#262150 : solved problem, solved since V1.273

Output of blocks with non-synchronous technology functions or path synchronous variables and tool data number in the wrong order.

If a block with a tool data number follows immediately after a block with a non-synchronous technology function (S and T functions) or a calculation with path-synchronous variables, then the block with the tool data number will be output first.

Note: Both blocks are output in the same ARNC0 cycle, which is why this effect can only be observed in single-step operation in Halt mode after each block (this occurs only in ARNC0 V1.27.0 to V1.27.2).

ID#400063767 : solved problem, solved since V1.273

Restart not possible if restart switched off and on.

If the function for saving restart info is switched off and on (ncRESTART, ncSWITCH_OFF / ncSWITCH_ON) between aborting and restarting an NC program, the restart will be aborted with error 15307 (Program failed to load).

ID#262295 : Information valid since V1.273

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.271

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.271

Library Acp10man Version 2.27.0 to 2.27.9 required.

NC Software - ARNC0 V1.272

ID#260980 : Information valid since V1.272

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.271

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.271

Library Acp10man Version 2.27.0 to 2.27.9 required.

NC Software - ARNC0 V1.271

ID#232652 : new function since V1.271

Program end command (e.g. M30) allowed in controll blocks (e.g. block with \$IF)

ID#260325 : Information valid since V1.271

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.271
 For ACOPOSmulti 8BVxxxx.xx-x: ACP10SYS V2.271
 Library Acp10man Version 2.27.0 to 2.27.9 required.

ID#260210 : solved problem, solved since V1.271

NC block with G170 + non synchronous M function, wrong order of execution (only ARNC0 V1.27.0)

In blocks with G170 + non synchronous M function, the M flag will be set not before G170 will be acknowledged.

NC Software - ARNC0 V1.270

ID#252125 : new function since V1.270

Decomposition of frame to orientation angles and offsets

For determining the angles, depending on the used angle type, the interpreter functions F_TO_ANGLES, F_TO_EULER and F_TO_RPY are provided. For determining the offsets of the frame the function F_TO_TRANS is available.

ID#256647 : Information valid since V1.270

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.271
 For ACOPOSmulti 8BVxxxx.xx-x: ACP10SYS V2.271
 Library Acp10man Version 2.27.0 to 2.27.9 required.

ID#253145 : Information valid since V1.270

Memory optimization within the interpreter

Both the own memory usage of the interpreter and the memory consumption for loaded programs have been reduced.

ID#400065531 : solved problem, solved since V1.270

Polar Coordinate Machine: To low path Speed at Circular and Linear Blocks.

Numerical problems in dynamic calculation can cause low path speed.

ID#400064009 : solved problem, solved since V1.270

Polar Coordinate Machine: Low Path Speed at tangential Block Transitions.

The axes jolt filter was not be taken in consideration in the calculation of path speed at tangential block transitions. The calculated value of path speed at block transition was too small. (only for polar coordinate machines)

ID#400059569 : solved problem, solved since V1.270

Deadlock while executing an NC program

A Deadlock in the CNC system can occur, if the following sequence is processed repeatedly with the same NC program:

- (1) Start NC program
- (2) Stop NC program

The deadlock can only be resolved with a warm restart of the PLC.

ID#400062135 : solved problem, solved since V1.270

Non synchronous Technology Functions will set on a wrong path position if G126 is active.

Non synchronous Technology Functions will set on the begin of the bezier spline instead in the centre of the spline if G126 is active.

NC Software - ARNC0 V1.261

ID#254322 : Information valid since V1.261

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.262
 For ACOPOSmulti 8BVxxxx.xx-x: ACP10SYS V2.262
 Library Acp10man Version 2.26.0 to 2.26.9 required.

ID#254317 : solved problem, solved since V1.261

Startup of ARNC0 axes get stuck in network phase 80 (only in V1.251 - V1.260)

ARNC0 axes with channel number 2, belonging to a drive connected to the POWERLINK network, get stuck in network phase 80 during startup.

NC Software - ARNC0 V1.260

ID#242667 : new function since V1.260

Parameterized subroutine return (RET)

Usually, the end of subroutine returns to the calling program and the lines following the subroutine call will be executed. Parameterized RET allows program resumption at another, user defined position

ID#252382 : Information valid since V1.260

Included drive operating systems, dependency

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.260
 For ACOPOSMulti 8BVxxxx.xx-x: ACP10SYS V2.260
 Library Acp10man Version 2.26.0 to 2.26.9 required.

ID#251792 : solved problem, solved since V1.260

Circular blocks: standstill at block transition.

A standstill can occur at block transition between circular-circular blocks or circular-linear blocks.
 The error can occur if the parameter "cnc_obj->limit.blocktransition = ncSTANDARD" or "cnc_obj->limit.blocktransition = ncAUTO" is set.

NC Software - ARNC0 V1.252

ID#248880 : solved problem, solved since V1.252

Reverse movement problem

Pagefault occurred if a path synchronous variable was assigned while moving backwards in an NC block.

ID#248795 : solved problem, solved since V1.252

Error in trigger configuration for axes accessed with PLCopen IF

It was not possible to select only the desired trigger events for the axes accessed with PLCopen IF. This can now be done using the configuration parameter "cnc_object.axis.axis[i].trg_source.trg_conf".

ID#234112 : solved problem, solved since V1.252

ARNC0 Deadlock if the same axis was connected to a CNC channel more than once

ID#249930 : new function since V1.252

CNC programming instructions ADR and SIZEOF

ADR[] - determines the address of a data point
 SIZEOF[] - determines the size of a variable in bytes

ID#249740 : new function since V1.252

Memory consumption optimization

Size of AIL opcode which was generated when loading NC program has been reduced.

ID#249382 : Information valid since V1.252

Included drive operating systems, dependency

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.250
 For ACOPOSMulti 8BVxxxx.xx-x: ACP10SYS V2.250
 Library Acp10man Version 2.25.0 to 2.25.9 required.

ID#249512 : solved problem, solved since V1.252

G211 - Improved speed profile for short NC blocks

G211 (blended move mode) active: The combination of short NC blocks and long programmed acceleration time \$TA could lead to dips in path speed profile.

NC Software - ARNC0 V1.251

ID#248045 : solved problem, solved since V1.251

Pagefault when restarting NC program

A pagefault could occur by restarting an NC program with rotary axes (ncROTARY). Problem only in the version V1.25.0.

ID#247817 : new function since V1.251

The cyclic ARNC0 task is now installed in the NC Manager task class

The real-time part of the ARNC0 is now installed into the "NC Manager task class" which can be defined via the Arnc0cfg.ncc configuration module. Up to now, the "NC Manager task class" was solely used for the communication between ARNC0 and the application tasks, whereas the real-time part of the ARNC0 has always been installed into TC#1 (unless the ForceSIOS parameter was set).

ID#248300 : Information valid since V1.251

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.241
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.241

ID#400059370 : solved problem, solved since V1.251

Page Fault or Memory Access Violation during backward movement on the path.

During backward movement on the path a page fault or a memory access violation can occur if path synchronous variables or function blocks are used or if subprograms are called.

ID#400058384 : solved problem, solved since V1.251

Startup of POWERLINK axes blocked in phase 80

If POWERLINK axes with node numbers greater or equal 100 are used, the startup of the axes may block in network phase 80.

NC Software - ARNC0 V1.250

ID# 400056079, 400062509 : solved problem, solved since V1.250

Corrupted error text modules

Some of the error texts have not been evaluated correctly after calling of NC action ncMESSAGE, ncTEXT.

NOTE: All error text modules on an automation target must be updated for correct determination of error texts in ARNC0 V1.25.0!

ID#400058124 : new function since V1.250

New start modes for NC action ncPROGRAM, ncSTART

Two new start modes ncFILE_XL+ncBLOCKMONITOR and ncDNC+ncBLOCKMONITOR have been defined to enable CNC block monitor for large or streamed NC programs.

ID#247420 : new function since V1.250

New parameters "rot_period" and "rot_offset"

The new parameters "rot_period" and "rot_offset" in the "cnc_obj.axis.axis[i]" structure can be used to set the period and offset of a rotary axis (ncROTARY+...).

ID#247410 : new function since V1.250

A new axis type in ARNC0: ncNOFEED

The single axes can be excluded from the feed rate calculation by adding ncNOFEED to the axis type. This makes it possible to exclude the axes of the types:

ncCNC + ncNOFEED
 ncLINEAR + ncNOFEED
 ncLINEAR + ncNOSTOP + ncNOFEED
 ncROTARY + ncNOFEED
 ncROTARY + ncNOSTOP + ncNOFEED
 ncROTARY + ncSHORT_PATH + ncNOFEED
 ncROTARY + ncNOSTOP + ncSHORT_PATH + ncNOFEED

from the feed rate calculation.

ID#242672 : new function since V1.250

New Systemvariables \$P_EP and \$P_EM

ID#242287 : new function since V1.250

G180

(1) Beside the current syntax "G180=000" also "G180" is allowed.

(2) The last circle in a series of joined blocks may be programmed with center point, radius and angle.

ID#247575 : Information valid since V1.250

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.241
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.241

ID#243502 : solved problem, solved since V1.250

Error in Restartinfo when read from a data module.

When loading Restartinfo from a data module, the restart may be aborted with error 7150 ("Mismatched NC program lengths upon 'RESTART'").

Condition: Parameter cnc_obj->restart.parameter.param_buffer = 0

ID#400053445 : solved problem, solved since V1.250

Incorrect angle of rotation in G102

If the last circular block before G102 is a full circle (360° angle of rotation), then the programmed arc as well as a full circle might be traversed in the block with G102.

Whether the error will occur or not depends on the position of the center point.

ID#400052417 : solved problem, solved since V1.250

G70/G71 was taken in consideration also for axe of the type ncROTARY.

Inch/mm conversion not allowed for angle units.

NC Software - ARNC0 V1.242

ID#246200 : solved problem, solved since V1.242

G172 can cause a CNC-system deadlock (only in V1.24.0 - V1.24.1)

ID#247167 : Information valid since V1.242

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.241

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.241

NC Software - ARNC0 V1.241

ID#245135 : new function since V1.241

Check of the orientation axes

When full transformations are switched on, the user is informed via a warning from ARNC0 when the positions of the programmed orientation axes in NC program are not uniquely defined.

ID#245115 : Information valid since V1.241

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.240

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.240

NC Software - ARNC0 V1.240

ID#244030 : solved problem, solved since V1.240

Performance issue fixed: re-loading of modified global subprogram had been very slow.

ID#243575 : solved problem, solved since V1.240

The G201 at NC block with zero movement distance caused a deadlock.

ID#243765 : new function since V1.240

Extended monitor data

NC monitor structure have been extended with the call_level element which displays current call level of subprograms. The hierarchy of subprogram calling can be displayed as NC block numbers in a data buffer provided by an application program. An address of the data buffer has to be specified during ncBLOCKMON, ncSET calling.

ID#243150 : new function since V1.240

Accepting an ncPROGRAM,ncLOAD when an NC program is active

An ncAction ncPROGRAM,ncLOAD should be accepted when an NC program is active. The new functionality should allow user to speed-up loading of global subprograms if they are modified between the NC program start and calling of them.

ID#243945 : Information valid since V1.240

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.240

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.240

ID#400053501 : solved problem, solved since V1.240

Invalid set position values in network interface

In very rare cases, an invalid value (NaN) is entered in the network interface for the decimal part of the set position.

ID#400030537 : solved problem, solved since V1.240

Restart - Deadlock at program abort

ARNC0 may become blocked if the program is aborted while restarting an NC program and ARNC0 is in the state "Waiting for movement to continue". The target must be restarted in order to remove the deadlock.

NC Software - ARNC0 V1.232

ID#242370 : Information valid since V1.232

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.232

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.232

ID#242465 : solved problem, solved since V1.232

Workspace monitoring - self collision reported too early

Self collision error has been reported too early.

ID#242320 : solved problem, solved since V1.232

Unit factor not considered by G200/G201

The CNC unit factor was not taken in consideration by the latch position calculation (functions G200/G201).

NC Software - ARNC0 V1.231

ID#240955 : new function since V1.231

Workspace monitoring - diameters of the robot arms as an array

Diameters of the robot arms can be defined as an array of values - separately for each arm.

ID#242070 : Information valid since V1.231

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.232

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.232

ID#400053739 : solved problem, solved since V1.231

System Crash if a ACOPOS parameter table is downloaded

During the download of an ACOPOS parameter table (ncACP_PAR + ncSERVICE, ncDOWNLOAD) the system can crash (page fault). In ARNC0 V1.22.0 and higher

ID#240975 : solved problem, solved since V1.231

NC monitor status "name_ncprog" not properly updated

The name of current NC program "name_ncprog" has not been properly updated for global subprograms.

ID#240970 : solved problem, solved since V1.231

Workspace monitoring - diameter of the robot arm not considered

Diameter of the robot arm hasn't been considered by crossing a protected area.

ID#400052416 : solved problem, solved since V1.231

Contour violation when wrapping is active

A contour violation occurred when wrapping or mapping was active and CDC with arc transitions (G133) was chosen.

ID#240557 : solved problem, solved since V1.231

Error determining the RESTART-INFO in single-step operation

If the RESTART-INFO is determined with the parameter "restart.info.parameter.restart_type = ncBLOCKNUMBER") while single-step operation is active (path generator), then cryptic characters might be output for blocks:

- with a shift of the coordinate system (e.g. G92, G54)
- with synchronous or non-synchronous M-functions
- with real-time parameters (M-parameters)
- with dwell time (G04)

Whether the error will occur or not depends on the internal timing of the ARNC0.

ID#239420 : solved problem, solved since V1.231

G201 and NC program restart

NC program restart and restart info didn't run correctly if G201 had been used.

ID#400043500 : solved problem, known since V1.038, solved since V1.231

Deadlock with neagitive override

ARNC0 was blocked if the following sequence was executed:

- start NC block or NC program
- set OVR to neative value
- wait until startposition of NC program is reached
- set OVR to zero
- set OVR to a negative value again.

Restart of target was needed to resolve the deadlock.

NC Software - ARNC0 V1.230

ID#240450 : new function since V1.230

Motion packet log

If enabled in Arnc0cfg, the motion packet log continuously records the contents of each motion packet packet into .mpl files. This functionality is switched on by default.

The log files are written into mplog* file devices which must be created by a user, one device per CNC channel (by default mplogA for 1st CNC channel, mplogB for 2nd CNC channel, ...).

New NC actions have been defined:

"ncMP_LOG, ncSWITCH_OFF" - switches the motion packet logging off

"ncMP_LOG, ncSWITCH_ON" - switches the motion packet logging on

ID#237477 : new function since V1.230

Logical operators

Following logical operators have been added to the G-code syntax:

&& - logical binary AND

|| - logical binary OR

XOR - logical binary XOR

! - logical unary NOT

ID#240445 : Information valid since V1.230

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.230

For ACOPOSmulti 8BVxxxx.xx-x: ACP10SYS V2.230

ID#240285 : solved problem, solved since V1.230

The movement didn't slow down to standstill if G201 was used in a rotated product coordinate system

The G92 or \$WFRAME was used to rotate the product coordinate system. If an axis with a programmed zero distance was set as a trigger source then the movement dindn't slowdown to standstill at NC block with G201 when the trigger occurred.

ID#240260 : solved problem, solved since V1.230

Latch system variables not set for CNC channel higher than 1

ID#400051683 : solved problem, solved since V1.230

Pagefault when calling AIL local function

ARNC0 crashed when analyzing a template function that contained a call to an AIL local function.

ID#239200 : solved problem, solved since V1.230

The M0 was skipped at the NC block with move distance equal to 0.0

ID#239075 : solved problem, solved since V1.230

NC program file not closed if syntax error

NC program file was locked if a global subprogram loaded from the main program contained a syntax error.

NC Software - ARNC0 V1.220

ID#238180 : new function since V1.220

\$CO_ORDS_MODE, \$CENTER_MODE, \$MOVE_CMD_MODE

New system variables have been added:
 \$CO_ORDS_MODE represents modal coordinate definition
 \$CENTER_MODE represents modal circle center point definition
 \$MOVE_CMD_MODE represents modal movement command

ID#237940 : new function since V1.220

TRANS, ROT, ATRANS, AROT

New functions for programming of zero point offset and rotation of coordinate system have been added.

ID#237910 : new function since V1.220

Non-modally effective, coordinate programming mode specifiers

The coordinate programming mode (relative or absolute) can be specified non-modally with the AC and IC statements.

ID#237865 : new function since V1.220

GOTO Statement

A jump to NC block with defined block number can be created with the GOTO statement.

ID#236635 : new function since V1.220

Setup ISQ-Ripple for automatically determining the ripple parameters

New NC structure component "setup.isq_ripple".
 New NC actions "ncSETUP+ncISQ_RIPPLE,ncSTART" und "ncSETUP+ncISQ_RIPPLE,ncSAVE".

ID#233727 : new function since V1.220

G211 (Blended Move Mode)

Prommable, linear feed rate profile on block transitions.

ID#239215 : Information valid since V1.220

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.220
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.220

ID#239212 : solved problem, solved since V1.220

SG4 target system with AR A3.08 or higher: Error 9650 when using ARNC0 before V1.220

After optimizations some system functions are no longer contained in AR versions A3.08 or higher, which are needed by ARNC0 versions before V1.220. If a ARNC0 version before V1.220 is used with AR versions A3.08 or higher, then the following error is indicated during the project transfer or registered in the Logger during the PLC startup:
 - 9650: Library function not available (System GOT)

For AR versions A3.08 or higher only the ARNC0 versions V1.220 or higher can be used.

ID#237822 : solved problem, solved since V1.220

Axis error during emergency stop: Movement state will not be actualized.

If an axis error (e.g. lag error) occurs while an emergency stop is active; it can happen that the movement state of the axis and the CNC-system will not be set correct after stand still. Possibly a restart of the target is necessary.

ID#237740 : solved problem, solved since V1.220

G201 in CNC simulation mode

NC program containing G201 got stuck if was run in CNC simulation mode.

ID#237735 : solved problem, solved since V1.220

G172 in CNC simulation mode

NC program containing G172 got stuck if was run in CNC simulation mode.

ID#237045 : solved problem, solved since V1.220

The G201 didn't work properly if as a trigger source was used an axis on SDC IF

The movement at NC block with G201 didn't slow down to standstill if the trigger was forced inside the trigger path section.

ID#234757 : solved problem, solved since V1.220

Exceedance of programmed feed rate at block transition

Although G111 is programmed, the programmed feed rate of the consecutive block can be exceeded at block transition.

ID#234540 : solved problem, solved since V1.220

Deadlock issued by G201

NC program got stuck if there was the G201 function in the last NC block.

NC Software - ARNC0 V1.211

ID#236285 : Information valid since V1.211

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.211
For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.211

ID#236465 : solved problem, solved since V1.211

Using G172 when the CDC is active will cause an NC program standstill

ID#236102 : solved problem, solved since V1.211

Interpreter does not find task-local PVs

On rare occasions the Interpreter was not able to find task-local PVs that were declared in the Configuration-Module "gmcipvar" by using the syntax "TaskName:PvName".

ID#236045 : solved problem, solved since V1.211

Pagefault G200/G201

Pagefault occurred when an axis in standstill has been used as trigger source for G200/G201 functions and less than 15 axes have been configured in the CNC channel. This problem occurred only in version V1.21.0.

ID#400048448 : solved problem, solved since V1.211

Error when calling an NC subprogram

A syntax error occurred when calling a global subprogram with a name that starts with a number.

ID#234760 : solved problem, solved since V1.211

Robot orientation axes moved after a change was made to the product coordinate system

NC Software - ARNC0 V1.210

ID#235227 : Information valid since V1.210

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.210
For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.210

NC Software - ARNC0 V1.201

ID#233920 : solved problem, solved since V1.201

Workspace monitoring: Extension for Frames

Workspace could previously only be defined in the global coordinate system, now can it be defined in any coordinate system. The current coordinate system is remembered together with each protected area.

ID#228277 : solved problem, solved since V1.201

Functions G70 and G71 are ignored for the rotary axes

The units switch (G70 and G71) is from now ignored for the rotary axes (ncROTARY). The system units are always used for the rotary axes.

NC Software - ARNC0 V1.200

ID#233102 : Information valid since V1.200

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.201
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.201

ID#232817 : solved problem, solved since V1.200

The movement state of an axis was not correct after movement abort

After abort of a movement (axis movement or CNC program) the axis state was set to move.mode = ncOFF, before the axis was in standstill.

ID#227727 : solved problem, solved since V1.200

Exceedance of axis acceleration on tangential corners due to t_axfilter

The axis jolt filter can cause a violation of the allowed axis acceleration limits (acceleration on the path was not taken in consideration).

NC Software - ARNC0 V1.102

ID#232990 : Information valid since V1.102

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.201
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.201

ID#233075 : solved problem, solved since V1.102

Memory footprint grew by 4 bytes per timestamp check

The timestamp is checked for each NC program start and each global subprogram call. Each timestamp check consumed 4 bytes of free memory.

ID#232770 : solved problem, solved since V1.102

The G201 deactivated programmed rotation of the coordinate system

ID#232735 : solved problem, solved since V1.102

Status of NC action remained "ncACTIVE"

Status of the NC action remained ncACTIVE after global init performed for a CNC object with more than 4 axes in a basis version of ARNC0.

ID#400046593 : solved problem, solved since V1.102

NC program got stuck on short path elements

The NC Program got stuck on very short path elements if the path element had to be skipped because of high path speed (warning 7236 "Contour segment had to be skipped, contour speed too high"), and if the element was followed by a non-tangential transition.

NC Software - ARNC0 V1.101

ID#232680 : Information valid since V1.101

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.201
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.201

ID#400045295 : solved problem, solved since V1.101

The parameter global.init not set

The parameter global.init of an axis object hasn't been set in some cases, if the axis object had been represented by a global PV.

NC Software - ARNC0 V1.100

ID# 400046336, 400046111 : solved problem, known since 1.09.7, solved since V1.100

Page Fault during Boot Phase with Win7/ARsim (AR000)

When working with ARsim (AR000) on Windows 7, the ARNC0 caused a page fault during the system boot phase.

ID#232417 : Information valid since V1.100

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.200
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.200

ID#231897 : solved problem, solved since V1.100

Member "class" of structure ARNC0MSREC_typ renamed to "errorclass"

In order to use ARNC0 in C++ programs the structure member "class" of ARNC0MSREC_typ has to be renamed to "errorclass". "class" is recognized as keyword for the C++ compiler and leads to an error.

ID#400045497 : solved problem, known since 1.09.6, solved since V1.100

Path speed is reduced to zero on short NC blocks.

Sometimes the movement on the path stops at short NC blocks, if mode "cnc_obj->limit.blocktransition = ncAUTO" is set.

NC Software - ARNC0 V1.093

ID#231787 : Information valid since V1.093

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.200
For ACOPOSMulti 8BVxxx.xx-x: ACP10SYS V2.200

NC Software - ARNC0 V1.092

ID#231560 : Information valid since V1.092

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.191
For ACOPOSMulti 8BVxxx.xx-x: ACP10SYS V2.191

ID#231530 : solved problem, solved since V1.092

Homing procedure aborted by error

The homing procedure on an ARNC0 axis was aborted with the error 5112: "Search Home procedure cancelled by Event ". The error started to occur in ARNC0 version 1.05.2 in combination with Automation Runtime B3.01.

ID#231315 : solved problem, solved since V1.092

Page Fault during ARsim (AR000) Boot Phase

When working on ARsim (AR000), a rather high number of axes could have caused an ARNC0 page fault during the system boot phase.

ID#226497 : solved problem, solved since V1.092

Trajectory speed jump because of different path acceleration at consecutive blocks

If in several blocks a lower path acceleration is programmed (e.g. G110), the path speed will not ramp to zero at a stand still but the speed will be forced to zero by the ARNC0. Furthermore the allowed acceleration on the axes can be violated.

NC Software - ARNC0 V1.091

ID#230100 : Information valid since V1.091

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.190
For ACOPOSMulti 8BVxxx.xx-x: ACP10SYS V2.190

ID#230720 : solved problem, solved since V1.091

Pagefault trying to configure more than 2 CNC channels

Pagefault occurred if user configured more than 2 CNC channels in the NC deployment table. This error was present from version 1.02.0.

ID#230705 : solved problem, solved since V1.091

Error stopping NC block or NC program

The following errors occurred after an NC block or NC program was stopped during the loading phase: 10106: Event not allowed in current state", 15743: "Errors detected in block text" and 15319: "Operation aborted by user". The error 10106 was additionally followed by a deadlock.

ID#230155 : solved problem, solved since V1.091

Error 1114 with NC-Action ncGLOBAL/ncINIT

When there is a high CPU load on the runtime target, the NC action ncGLOBAL/ncINIT could fail with error 1114.

ID#230095 : solved problem, solved since V1.091

Deadlock if NC-program was aborted when calling global subprogram

A deadlock would occur if an NC-program, which had called a global NC subprogram, was aborted by an error.

ID#230085 : solved problem, solved since V1.091

Pagefault when calling NC-subprogram with parameters

A deadlock would occur if an NC-program, which had called a global NC subprogram, was aborted by an error.

ID#400043708 : solved problem, solved since V1.091

The synchronized M Function is ignored if a path-synchronous variable is used in the same NC block.

NC Software - ARNC0 V1.090

ID#228755 : solved problem, solved since V1.090

Interpreter-Error was displayed in wrong CNC-Channel

An Interpreter-Error (e.g. Interpreter detects a syntax error during NC-Action ncPROGRAM/ncLOAD) in a CNC-Channel with Index other than 0 might have affected the CNC-Channel with Index 0.

ID#226952 : solved problem, solved since V1.090

Negative values for G108/G109/G110 ACC=<value> were not rejected

An error is reported if the path acceleration exceeds the valid range.

ID#228590 : new function since V1.090

Version control on config files according to ARNC0 version number

The standard configuration (AS package "GmclpConfig") files must have a version number that matches the first three digits of the ARNC0 version number (Vx.yy.z)

ID#228575 : new function since V1.090

Setup phasing for automatically determining the commutation offset

New NC structure component "setup.motor_phasing".

New NC actions "ncSETUP+ncMOTOR_PHASING,ncSTART" und "ncSETUP+ncMOTOR_PHASING,ncSAVE".

ID#225877 : new function since V1.090

New Debugfunctionality for CNC Program Execution

- Breakpoints
- Variable watch and force function
- Expression execution
- Direct access to interpreter variables from PLC application tasks
- CNC blockmonitor display either path synchronous or interpreter synchronous

ID#228560 : Information valid since V1.090

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555

For ACOPOS 8V1xxx.00-2: ACP10SYS V2.190

For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.190

ID#225882 : Information valid since V1.090

Extension of Interpreter Single Step Functionality

- Step into subprograms or step over
- Definition of a number of blocks to halt after

ID#228750 : solved problem, solved since V1.090

The ARNC0 trace failed with the error 2104: Invalid NC object for trace test data .

The trace test data were set properly but NC object "ncMODULE" issued the error 2104.

ID#228642 : solved problem, solved since V1.090

AILHeader section is limited to 4096 bytes in language configuration file (LCF).

ID#228595 : solved problem, solved since V1.090

Path speed drops to zero when assigning path synchronous variable

When path synchronous variable e.g. M-parameter was assigned in NC-program the path speed always dropped to zero. This happened even when the path synchronous variable was assigned between two tangentially connected path elements.

ID#227440 : solved problem, solved since V1.090

ncAUTOSAVE on ARwin (AR010) - Problem regarding access time

Trace with ncAUTOSAVE setting (saves trace data in text file automatically) took a long time when running on ARwin (AR010). The access time has now been optimized.

ID#227400 : solved problem, solved since V1.090

Position jump when using CAM wrapping

A position jump could occur on the rotary axis when the CAM wrapping hasn't been switched off in the previous NC program.

ID#227310 : solved problem, solved since V1.090

Internal errors after calling of external function from NC-program

Error sequence 10638, 10640, 10636 (internal errors) occurred as a response to a ncPROGRAM/ncSTART NC-Action if a previous program run had been aborted by a runtime error caused by an external function call (in case of a path-synchronous function with return type STATUS that returned a value between 1 and 65533).

ID#400041582 : solved problem, known since ARNC0 V 1.05.6, solved since V1.090

NC action ncAXES, ncINIT + cycle time violation

NC action ncAXES, ncINIT was adapted so that it no longer causes a cycle time violation when CPU load is too high.

ID#226460 : solved problem, solved since V1.090

G193, G194 not working since ARNC0 V1.00.0

The functions G193/194 (enable/disable "Linear feed characteristic" mode) have not been working since version V1.00.0. The functions G193, G194 are now supported again.

ID#226015 : solved problem, solved since V1.090

POWERLINK drive startup

If a drive that had not finished starting up was switched to ncCNCSSYS simulation mode, the remaining drives didn't finish starting up.

ID#224940 : solved problem, solved since V1.090

Page fault when initializing the axis settings

A page fault occurs while initializing the axis settings if the axis object "cnc_object.axis.axis[i].nc_object" has not been assigned to a CNC object.

ID#400038567 : solved problem, solved since V1.090

Rotation angle H falsely interpreted as variable name

Syntax error occurred when using G02 argument H (rotation angle) after use of variable starting with H.

ID#400034909 : solved problem, solved since V1.090

Axis Movement State at NC Program Emergency Stop

At NC program emergency stop (ncMOVE, ncE_STOP) with the parameter cnc_obj->move.e_stop.path = ncAXIS, the axis movement state will be set to axis_obj->move.mode = ncOFF before the axis stands still.

NC Software - ARNC0 V1.070

ID#226295 : Information valid since V1.070

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.180
For ACOPOSmulti 8BVxxxx.xx-x: ACP10SYS V2.180

ID#226305 : solved problem, solved since V1.070

FRAME independent from TRF_LIB version

Reorientation of axes is now independent from the TRF_LIB version if FRAME is used.

ID#226300 : solved problem, solved since V1.070

Usage of local_frame without frame axes

local_frame is used also if frame axes are not defined. Values from the transformation variable are then considered.

NC Software - ARNC0 V1.063

ID#225365 : Information valid since V1.063

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.180
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.180

ID#224795 : Information valid since V1.063

Default error level for function blocks called from an NC-program changed from error level 4 (warning) to error level 3 (program halt)

ID#224855 : solved problem, solved since V1.063

Poor performance accessing files during startup

Reading the XML configuration files from the CF took a long time during ARNC0 startup. The access time has now been made 5 times faster.

ID#224815 : solved problem, solved since V1.063

Cutter diameter compensation: \$RAD_IDX error

The change to an external parameter (EXF), which was used for indirectly accessing the tool radius, was detected too late. As a result, the tool radius value was updated too late. This error was present from version V1.00.0.

ID#224415 : solved problem, solved since V1.063

Error 40137: "Internal Error - Invalid Job ID in ARNC0 response" on the axis object

The error 40137: "Internal Error - Invalid Job ID in ARNC0 response" was issued on the axis object if the NC program was aborted due to an interpreter error.

ID# 400036515, 400037166 : solved problem, solved since V1.063

Backwards Compatibility: Local Sub-Program and Main-Program may have the same Program-Number

Starting with ARNC0 V1.00.0 using the same program-number for a local sub-program and the main-program resulted in error 15196. For the sake of backwards compatibility, this is now allowed again.

NC Software - ARNC0 V1.061

ID#223355 : Information valid since V1.061

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.171
 For ACOPOSmulti 8BVxxx.xx-x: ACP10SYS V2.171

ID#223350 : solved problem, solved since V1.061

NC program stops after approx. 250 subprogram calls

ID#223345 : solved problem, solved since V1.061

Error 10442 occurs upon return from an NC subprogram

The error 10442: "A line containing an expression must not contain anything else" occurs after returning from an NC subprogram. The frequency of the error depends on the length configured for the MP queue.

NC Software - ARNC0 V1.060

ID#400038189 : new function since V1.060

Allowed Contour Violation caused by the Axis Jolt Filter can be programmed in the NC Program.

The axis jolt filter causes contour deviation at circular blocks. The allowed contour deviation can be programmed in the NC program with system variable \$filter_err_cir.

ID#223047 : Information valid since V1.060

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.171

ID#223167 : solved problem, solved since V1.060

CNC path movement stops after return from global subprogram.

NC Software - ARNC0 V1.052

ID#222215 : new function since V1.052

Additive Frame

The user-defined frame is added to the currently used workpiece frame.
Syntax: \$WFRAME_ADD = <frame_name>

ID#222985 : Information valid since V1.052

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.171

ID#222760 : solved problem, solved since V1.052

Workspace monitoring: If the function TRF_get_joints_pos is not available

If the function TRF_get_joints_pos from TRF_LIB is not available for certain mechanical constructions, the NC program is no longer interrupted. Instead, only a warning is produced.

ID#222435 : solved problem, solved since V1.052

Error 40112 when loading data from INIT parameter module with subsequent global initialization

Loading data from INIT parameter module with subsequent global initialization (NC action ncGLOBAL, ncLOAD+ncINIT) was aborted with the error 40112:"Timeout at processing an ARNC0 command" if the same NC action had previously been aborted with the error 40245: "Error loading init parameter module". Error occurred only on the axis object.

ID#222225 : solved problem, solved since V1.052

Deadlock with runtime error

The deadlock occurred when the NC-program was aborted by runtime error (e.g. division by zero).

NC Software - ARNC0 V1.051

ID#221365 : Information valid since V1.051

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
For ACOPOS 8V1xxx.00-2: ACP10SYS V2.170

ID#400035441 : solved problem, solved since V1.051

Speed limit of tangential axis exceeded

The speed limit of the tangential axis was exceeded when circular interpolation was used.

NC Software - ARNC0 V1.050

ID#220825 : new function since V1.050

In_pos_tolerance for full transformations

If a movement is started with full transformations switched on, then path and joint axes have to be in the corresponding positions. These positions are checked via direct transformation, and there is an allowed tolerance for path axes ("axis.transformation.in_pos_tolerance").

ID#220820 : new function since V1.050

Frame axes

In addition to current joint and path axes, frame axes were introduced to the full transformations as well. These new axes are used if the whole robot (i.e. its basement) is moving.

ID#220835 : new function since V1.050

Workspace monitoring

Workspace monitoring has been implemented. The working area can be defined and monitored.

ID#220810 : new function since V1.050

Frames - Coordinate system definition

FRAME variable describes new workpiece coordinate system. FRAME variable can be modified by set of operations as translation or rotation.

ID#220815 : Information valid since V1.050

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.171

NC Software - ARNC0 V1.040

ID#400034873 : solved problem, known since V1.x, solved since V1.040

ARNC0 Axis: In ARNC0NCMON_typ the structure element "s_ncrecord" was used instead of "s_ncblock"

ID#220730 : Information valid since V1.040

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.171

ID#220190 : solved problem, solved since V1.040

Error 10726 when calling naction() for NC objects, for which ncaccess() or nalloc() have not been called

It is possible to define a global PV with type "ncAXIS" or "ncCNCSSYS" for an NC object. In this case the address of this PV can be used as NC object for naction (), i.e. the NC object does not have to be determined with ncaccess () or nalloc (). However so far this did not function, because with call of naction () the error 10726 occurred for all NC objects, for which ncaccess() or nalloc() have not not called.

ID#219985 : solved problem, solved since V1.040

Error 40112 for POWERLINK axis in simulation mode "ncCNCSSYS"

If the NC action "ncGLOBAL,ncINIT" was called for an POWERLINK axis in simulation mode "ncCNCSSYS", when the correspondig ACOPOS was not available on the network, then the following error occurred:
 - 40112: "Timeout at processing an ARNC0 command"

ID#213407 : solved problem, solved since V1.040

Error 10704 by nalloc() and ncaccess() in TC#5 .. TC#8

The error 10704 occurred until now when calling nalloc() or ncaccess() in TC#5 .. TC#8.

NC Software - ARNC0 V1.034

ID#219482 : Information valid since V1.034

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.160

ID#219477 : solved problem, solved since V1.034

Axis acceleration Limits exceeded at transient block transitions

On transient block transitions, the axis acceleration limits can be exceeded for one CNC cycle up to twice-time of the limit value.

NC Software - ARNC0 V1.033

ID#217567 : new function since V1.033

Skip Function

There are up to 10 independent skip level available.

ID#218670 : Information valid since V1.033

Included drive operating systems

For ACOPOS 8V1xxx.00-1: ACP10SYS V0.555
 For ACOPOS 8V1xxx.00-2: ACP10SYS V2.160

ID#218695 : solved problem, solved since V1.033

Cycle time violation of ARNC0 tasks

The cycle time violation occurred when NC-program ran on system with the high CPU load (>= 95%).

ID#217900 : solved problem, solved since V1.033

Pagefault by a circular interpolation

A page fault occurred if a circular interpolation has been decoded and the first axis of a CNC object (cnc_obj.axis.axis[0]) hasn't been a Cartesian one.

1A4000.02 Visual Components**HW/SW Config**

ID#400054708 : solved problem, known since V3.00.81.18, solved since V3.00.81.23 SP02

Node numbers of VC Windows targets can't be changed after they are set

Libraries

ID#400060097 : solved problem, known since VC 3.64.4, solved since VC 3.91.6

VCDP_Utf8Set() - Parameter 'pv-userid' not present in event

If a variable is written with the function VCDP_Utf8Set(), then the parameter 'pv-userid' will not be present in the event. The function VCEV_I32Get() returns the error code ERROR_VCEV_PARAM_ERROR.

ID#400049586 : solved problem, known since VC 3.64.2, solved since VC 3.92.8

Rounding error in the function VCDP_Utf8Set(...)

If the function VCDP_Utf8Set is called up with the flag "VCDP_UNIT_TYPE_INTERNAL" and "VCDP_AUTO_LIMIT_VALUE", then the value will be written to the PV without decimal places.

ID#400044645 : solved problem, known since VC 3.64.0, solved since VC 3.90.2

Watchdog (9206) when the function ScreenShot() from the ScreenShot library is executed when no storage device is connected.

ID#400061454 : new function since V3.00.90.08

Output number of acknowledged alarms.

A new VISAPI function VA_GetAlarmCount(...) can be used to read out the number of alarms that have been acknowledged.

SG3 Compiler

ID#400060889 : solved problem, known since V3.00.71.32 SP06, solved since V3.00.90.11

VC3 visualization application always transferred

ID#400073633 : solved problem, known since V3.00.80.09, solved since V3.00.81.20 SP01

Problem compiling constants in VC3

Array member variables that are defined with a constant and used in VC3 can't be compiled.

SG3 Editor

ID# 400053896, 400057381, 400061062 : solved problem, known since V3.00.81.18, solved since V3.00.81.25 SP04

Error: PLC variable not defined

If the function keys are assigned to SetUSINT/SetUDINT or toggle, an error message appears during compilation:
... (PicFunction 'F1' [Toggle USINT]) : Error : PicFunction 'F1' [Toggle USINT]: PLC variable not defined

The data type was not saved correctly and therefore caused a build error.

ID#400036265 : solved problem, known since V3.00.80.25, solved since V3.00.81.20 SP01

Incorrect configuration of alarm system can now be corrected using the Edit function.

SG3 Runtime

ID#400050107 : solved problem, known since VC 3.64.2, solved since VC 3.90.6

PW35 with same node number not working on different X2X buses

SG4 - Common

ID# 400008201, 400006669, 400009276, 400009917, 400013774, 400015386, 400015877, 400016146, 400018752, 400044279, 400053932, 400060613 :
new function since V3.00.90.06

The number of key levels has been increased to six

The possible number of KeyLevels was increased to six in order to ensure consistent hardware/software key configurations.

SG4 Compiler

ID#400068118 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.12

Compiler output improved for Error 7164.

ID# 400061529, 400065695 : solved problem, known since V3.00.81.24 SP03, solved since VC 3.92.4

Incorrect status for VA_wcGetActAlarmList on VC Windows terminals

ID#400055896 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.08

The structure of a reference is displayed incorrectly in the cross reference in VC.

ID#400060300 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.90.09

Layout of the listbox during runtime depends on the text size in Windows 7

If the text size in Windows 7 is changed (Control Panel -> Display -> Make it easier to read what's on your screen), this affects the layout of the listbox control.

ID#400055896 : solved problem, known since V3.00.81.18, solved since V3.00.81.24 SP02

VC objects were sometimes ignored in "Build Cross Reference"

ID#400058284 : solved problem, known since V3.00.81.18, solved since V3.00.90.09

Absolute path in the *.mak file in VC3 visualization

ID#400055896 : solved problem, known since V3.00.81.18, solved since V3.00.90.06

After a "Build all", visualization objects ignored in "Build Cross Reference"

ID#244258 : solved problem, known since VC 3.72.8, solved since V3.00.90.08

ReplaceColor doesn't work correctly for 32-bit bitmaps.

ID#400055155 : solved problem, known since V3.00.81.18, solved since V3.00.81.22 SP01

Compiler error when a configuration name contains "temp"

ID#400055155 : solved problem, known since V3.00.81.18, solved since V3.00.90.06

Build error when config name contains "Temp"

ID#400052054 : solved problem, known since V3.00.81.18, solved since V3.00.90.06

Incorrect error message when multiple KeyMapping files are mapped

ID#228710 : known problem since V3.00.81.14, correction planned for V3.00.90

A build with GCC 2.95.3 doesn't work if the installation path contains parentheses ()

If the installation path for Automation Studio contains parentheses, the build won't work if GCC Version is set to 2.95.3.

The problem occurs especially on Windows 7 64-bit installations, because the default installation path there is "c:\program files (x86)".

SG4 Editor - Common

ID#400064647 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

Changes to the name of the visualization are not saved in the project file.

ID#400064754 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

Variables are not deleted from the data source file when the last active reference is deleted.

ID# 400052964, 400060332 : solved problem, known since VC 3.72.6, solved since V3.00.90.10

When opened, the visualization application is always marked as having been changed

ID#400062105 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.10

VC Editor crashes if a CPU name with more than 20 characters is used in a project.

ID# 400063838, 400062713, 400062960 : solved problem, known since V3.00.81.18, solved since V3.00.90.09

Data points are decoupled during import

If resources are imported from a different project, the data points will be decoupled from the control elements if the name of the data source is not the same in the source and target project.

ID# 400061451, 400062661 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.81.26 SP0x

Refactored variable not being saved

If a variable is refactored (e.g. because it has been renamed in the task) and the visualization application saved and then re-opened, then the data point will be set to <None>.

ID#400061451 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.90.09

Refactored variable not being saved

If a variable is refactored (e.g. because it has been renamed in the task) and the visualization application saved and then re-opened, then the data point will be set to <None>.

ID#400060674 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.90.11

With more than 10 key levels, switching displayed level in VC editor doesn't work correctly

ID#400059732 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.90.09

Refactored variable not being saved

If a variable is refactored (e.g. because it has been renamed in the task) and the visualization application saved and then re-opened, then the data point will be set to <None>.

ID#400055285 : solved problem, known since V3.00.81.18, solved since V3.00.90.07

Incorrect handling of data source in source control

As a result, changes can't be saved and are lost.

ID#400058347 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.25 SP04

Changing the property "Apperance.ColorDatapoint" in the style sheet causes an error

With the text "TextDateTime" for the data point Apperance.ColorDatapoint, if a variable is linked or changed and then the visualization application is closed and saved, an error occurs.

ID#400057285 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

TextIndexOffset -1 not being saved

If the value 1 is set as the TextIndexOffset for a text, then this value will not be saved. Other values work correctly.

ID#400055336 : solved problem, known since V3.00.81.18, solved since V3.00.90.06

GDI resources are lost when switching between two trend windows

Each time you switch between two trend windows approximately 100 GDI resources get lost. This, in turn, can lead to the error "Incorrect argument found".

ID#400055285 : solved problem, known since V3.00.81.18, solved since V3.00.81.26 SP0x

Incorrect handling of data source in source control

As a result, changes can't be saved and are lost.

ID#400054482 : solved problem, known since VC 3.64.2, solved since V3.00.90.08

ReplaceColor doesn't work correctly for 32-bit bitmaps.

ID#400053770 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.12

Element of a structure can't be displayed during runtime

After a functioning project is converted, an element of a structure is no longer displayed.

ID#400050839 : solved problem, known since V3.00.81.18, solved since V3.00.81.20 SP01

After converting from AS3.00.80 to AS3.00.81 the wrong value is used for ReplaceColor.

After the conversion a 32-bit value is used with a different color value for the ReplaceColor.

ID# 400049724, 400052262 : solved problem, known since VC 3.64.2, solved since V3.00.90.06

When a visualization page is copied, the tab order of the controls is lost

If multiple controls are copied from one page to another, the tab settings are not retained.

ID#400046081 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.13

Layer copied from a page to the common layers keeps the property "hidden"

ID#400034476 : solved problem, known since V3.00.80.25, solved since V3.00.90.11

Grid settings in VC editor disappear if window too small

ID# 400026964, 400049218 : solved problem, known since V3.0.71.31 SP05, solved since V3.00.90.07

ShowConnections function doesn't work on text groups when pages are closed

ID# 400062342, 400062713, 400062960 : new function since V3.00.90.10

Merging data sources when importing resources

ID#400054507 : new function since V3.00.90.10

For the Toggle and Momentary DP key actions, the default setting for "pressed" status has been changed to 1.

SG4 Editor - Controls

ID#400000595 : solved problem, known since V3.00.90.14, solved since V3.00.90.16

Crash when VC objects are opened in a specific project

ID#400055386 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.23 SP02

When a text group entry is selected in VC, it is sometimes displayed incorrectly.

ID# 400037920, 400041371, 400045431 : solved problem, known since V3.00.90.11, solved since V3.00.90.13

Display error in the bitmap 'zuneAlphaPadQvga'

ID#400056208 : known problem since V3.00.81.14, correction planned for V3.00.90.04

Incorrect display of control element "Numeric" in the editor

If the alignment for a "Numeric" control element is set to Center/Center and the Border to "none", then there is no value displayed in the editor.

SG4 Editor - Help

ID#400043304 : solved problem, known since V3.00.81.19, solved since V3.00.90.16

Incorrect display of arrays with many elements (80000 or more)

SG4 Editor - PageDesigner

ID#400062424 : solved problem, known since V3.00.90.05, solved since V3.00.90.10

Importing a 32-bit PNG inserts it as an 8-bit bitmap

ID# 400052261, 400056975 : solved problem, known since V3.00.81.18, solved since V3.00.81.20 SP01

When opening a VC project, the tab order was read incorrectly.

ID# 400050882, 400055585, 400060760 : solved problem, known since VC 3.72.6, solved since V3.00.90.06

Variable and units overlap in the editor.

SG4 Editor - Resources

ID#400065760 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.12

Using multiple VC data sources causes a page fault.

ID#400064577 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

Limit for the expand function increased from 255 to 10000 elements.

ID#400064021 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

Incorrect error message when the wrong directory is specified in the VC Import Wizard.

ID#400063338 : solved problem, known since VC 3.73.0, solved since V3.00.90.11

Display of import log file doesn't work. The file is created in the wrong folder.

ID#400062865 : solved problem, known since V3.00.81.24 SP03, solved since V3.00.90.09

The variable that is used exclusively for Fill Areas is decoupled from the property by VC

ID#400062173 : solved problem, known since V3.00.81.24 SP03, solved since V3.00.90.12

Switching from 8-bit to 32-bit isn't applied to all graphics.

ID# 400052336, 400061114 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.90.09

Array elements not being linked to the task during import

If controls with array elements are imported as data points via the VC Import Wizard, then the link to the task is lost even though these links appear to still be there.

ID# 400059383, 400061465, 400063019, 400064576 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

Unit groups can no longer be connected to arrays

ID# 400057211, 400060560, 400062831, 400070847 : solved problem, known since V3.00.81.18, solved since V3.00.90.11

It was no longer possible to create an internal data source.

ID# 400056974, 400059791 : solved problem, known since V3.00.81.18, solved since V3.00.90.09

Members of FUB arrays not displayed correctly in the VC data source

ID#400055909 : solved problem, known since VC 3.72.6, solved since V3.00.90.07

Data points linked to vKeys are sometimes disconnected if the project contains more than one visualization

ID#400055909 : solved problem, known since VC 3.72.6, solved since V3.00.81.24 SP02

Data points linked to vKeys are sometimes disconnected if the project contains more than one visualization

ID#400046570 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.81.20 SP01

Error that led to sporadic crashes when importing VC resources has been corrected.

ID#400051047 : solved problem, known since V3.00.81.18, solved since V3.00.90.06

Problem replacing data points in VC

ID#400050913 : solved problem, known since V3.00.81.18, solved since V3.00.90.06

Additional nodes in structures in the data source view

An extra node is shown for structures in the data source view, which allows additional elements to be shown for arrays with more than 10 entries.

ID#400035848 : solved problem, known since V3.0.71.31 SP05, solved since V3.00.81.20 SP01

Focus placed incorrectly when performing "Replace" in VC

SG4 Runtime - Alarmsystem

ID# 400054669, 400055052 : solved problem, known since VC 3.72.6, solved since VC 3.91.0

VC4 alarms are displayed with the wrong forecolor.

SG4 Runtime - Common

ID#267408 : solved problem, known since VC 3.92.8, solved since VC 3.93.2

If all of a project's languages aren't transferred to the target, an error occurs when loading the text resources.

ID#400069356 : solved problem, known since VC 3.73.0, solved since VC 3.92.6

PieChart control not refreshed when the sum of the values remains the same.

ID#400064836 : solved problem, known since VC 3.73.0, solved since VC 3.91.8

Invalid layer reference on a page causes a crash

If the description of the page contains a reference to a layer with <none>, an error occurs on the target.

ID# 400059292, 400065022, 400055401 : solved problem, known since ARSG4_3.08.7_G03.08, solved since VC 3.93.0

SDM2: Can't access AR000 SDM via VC control

ID#248485 : solved problem, known since V3.00.81.22 SP01, solved since VC 3.91.0

The internal data point "IP address" doesn't work for the X20CP1483-1.

ID# 400054186, 400055491, 400059875, 400061184 : solved problem, known since VC 3.72.6, solved since VC 3.91.0

Calibration data points don't work

ID#400045261 : solved problem, known since VC 3.64.2, solved since VC 3.90.2

ARsim crashes if the True Type font "CIHLVB.TTF" is used.

Also applies for italic and bold variants.

ID#400044702 : new function since VC 3.91.6

In a user trend, the sample rate can be defined by a data point.

SG4 Runtime - Controls

ID#400063188 : solved problem, known since V3.00.90.01, solved since VC 3.91.6

Setting the property Format\PitchLines\MajorDevisions for the control element "Sale" to 0 pushes the CPU load to 100%

ID#400056229 : solved problem, known since V3.00.81.23 SP02, solved since VC 3.91.4

A TrendScaleContainer with a width of <= 16 pixels causes a page fault in VC

ID#400058121 : solved problem, known since V3.00.81.18, solved since VC 3.91.4

Defining a SampleCount of 2147483647 (approx 2GB) in the TrendControl causes a PageFault

Defining a value for the SampleCount that is too high causes a PageFault and the system will no longer boot. The problem occurs immediately when booting.

ID#400058612 : solved problem, known since VC 3.73.0, solved since VC 3.91.4

Trend time scale incorrect after changing the system time.

If the system time is changed, then there is an error when displaying a trend because the time change is not applied.

ID# 400057460, 400059634 : solved problem, known since VC 3.72.6, solved since VC 3.91.4

Trend time drifts away from the system time

After approximately 2 weeks, the time of the X axis of an online trend is no longer synchronized with the system time.

ID#400043306 : solved problem, known since VC 3.72.6, solved since VC 3.91.6

Pressing a key causes a page fault if the index in a drop-down control is outside the min/max range

ID#400054540 : solved problem, known since VC 3.90.2, solved since VC 3.91.6

When all items are locked, pressing the down arrow in a DropDown control causes a page fault.

In a DropDown control where all the entries are locked via the data point, using the down arrow to select an element causes a page fault.

ID#400051722 : solved problem, known since VC 3.64.2, solved since VC 3.90.2

Page fault when the focus is placed on a drop-down control that has no text group.

ID#400051227 : solved problem, known since VC 3.64.2, solved since VC 3.90.2

If the listbox receives a Lock event while scrolling, the visualization application freezes.

ID# -, 400058133, 400065180 : solved problem, known since VC 3.64.2, solved since VC 3.90.2

Page fault in the listbox control when the Options data point is used

ID# 400051271, 400050884, 400052430 : solved problem, known since VC 3.72.6, solved since VC 3.90.2

Bitmaps can't be displayed on touchpads.

ID#400049974 : solved problem, known since V3.00.80.31 SP01, solved since VC 3.90.2

Entering a certain Zoom factor for the Zoom data point freezes the visualization application.

ID#400049447 : solved problem, known since V3.00.80.25, solved since VC 3.90.2

EDIT control can't load a 16 kB file.

When a larger file (~16 kB) is loaded, the edit control shows error number 28710.

SG4 Runtime - Keyhandling

ID#400060084 : solved problem, known since VC 3.73.0, solved since VC 3.92.0

Error in LED and key handling on VC Windows terminals.

SG4 Runtime TerminalMode

ID#400067118 : solved problem, known since VC 3.73.0, solved since V3.00.90.13

When VC Windows terminal is restarted, a running ARwin is not closed

ID#400054078 : solved problem, known since VC 3.72.6, solved since VC 3.91.8

The visualization application stops responding after the function VA_SetVisualizationZOrder is called.

If the function VA_SetVisualizationZOrder(...) is called shortly after switching pages, and the flag SWP_ASYNCWINDOWPOS is not set, then the visualization application stops responding. This prevents the calling thread from blocking its execution while other threads process the request.

When this happens, the task manager shows that it is "not responding".

ValueMeaning

SWP_ASYNCWINDOWPOS (0x4000)

If the calling thread and the thread that owns the window are attached to different input queues, the system posts the request to the thread that owns the window.

ID#400053165 : solved problem, known since VC 3.72.6, solved since V3.00.90.11

If an incorrect administrator password is entered, the VC Windows terminal won't boot automatically anymore.

SG4 Runtime - VNC

ID#400041732 : solved problem, known since VC 3.35.4, solved since VC 3.91.4

VNC clients with different encoding cause display errors

ID#263545 : known problem since VC 3.92.0, correction planned for V3.00.90.13

The font "Small Font" is not displayed correctly

Because of errors in the font "Small Font", Visual Components Runtime doesn't display it correctly.

1A4000.02 Automation Help

General

ID#400049392 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.12

Additional information 0x80004008 E_EXISTS is not described in error description 28700.

Motion - ACP10_MC

ID#400068552 : solved problem, known since V3.00.81.28 SP0x, solved since V3.00.90.12

Motion Samples: All errors have been acknowledged at once.

Under the following circumstances it was possible, that the error handling in the Motion Samples LibACP10MC_SingleAx_XX, LibACP10MC_Gear_XX, LibACP10MC_Cam_XX and LibACP10MC_Automat_XX was not correct, and all errors were acknowledged at once:

1. The switch-on command for the controller (XxxControl.Command.Power = 1) is not set yet.
2. There are several errors active (e.g. due to a temporary network failure) on the respective axis.
3. The command for acknowledging (XxxControl.Command.ErrorAcknowledge) is given for once.

1A4000.02 (2.0 Automation Runtime SG4)**AR - ARemb**

ID#400053201 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.2_B03.07

Automation Runtime boots cyclically or crashes addresses in the same subnet are assigned on both Ethernet interfaces

AR - ARsim

ID#400062877 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.9_I03.08

Remanent/permanent variables not saved when exiting ARsim

ID#400062877 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.10_J04.00

Remanent/permanent variables not saved when exiting ARsim

ID#400055446 : known problem since V2.7.0.0015 SP08, correction planned for ARSG4_3.07.3_C03.07

Address error occurs when a breakpoint is reached on a command that is 1 byte long

ID#400055446 : known problem since V2.7.0.0015 SP08, correction planned for ARSG4_3.08.4_D03.08

Address error occurs when a breakpoint is reached on a command that is 1 byte long

ID#400055446 : known problem since V2.7.0.0015 SP08, correction planned for ARSG4_4.00.4_D04.00

Address error occurs when a breakpoint is reached on a command that is 1 byte long

AR - ARwin

ID#400065938 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.08.15_O03.08

c command line argument in the ARwin configuration disables not only the COM2 interface but also COM1.

ID#400065938 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_4.00.15_O04.00

c command line argument in the ARwin configuration disables not only the COM2 interface but also COM1.

ID#400065540 : solved problem, known since V3.00.81.24 SP0x, solved since ARSG4_3.08.12_L03.08

ARwin shows incorrect amount of available DRAM memory in SDM

ID#400065540 : solved problem, known since V3.00.81.24 SP0x, solved since ARSG4_4.00.12_L04.00

ARwin shows incorrect amount of available DRAM memory in SDM

ID#400066313 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.8_H03.07

If, for example, the X2X timer is used as the system clock, then remanent variables aren't saved when there is a power failure

ID#400066313 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.11_K03.08

If, for example, the X2X timer is used as the system clock, then remanent variables aren't saved when there is a power failure

ID#400066313 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.11_K04.00

If, for example, the X2X timer is used as the system clock, then remanent variables aren't saved when there is a power failure

ID#400057456 : solved problem, known since ARSG4_3.01.7_G03.01, solved since ARSG4_3.07.8_H03.07

Update to ARwin configurator

It is now possible to set the broadcast address and the subnet mask.

ID#400057456 : solved problem, known since ARSG4_3.01.7_G03.01, solved since ARSG4_4.00.8_H04.00

Update to ARwin configurator

It is now possible to set the broadcast address and the subnet mask.

ID#400058774 : solved problem, known since ARSG4_3.08.4_D03.08, solved since ARSG4_3.08.8_H03.08

Incorrect version of rtosdrv.dll

If an APC with 16 interrupts (PIC types) is used as the target platform, e.g. an APC620 with an E855 board, there are problems with setup and when upgrading via AS. This is caused by incorrect versions of the dlls and driver involved.

ID#400058774 : solved problem, known since ARSG4_3.08.4_D03.08, solved since ARSG4_3.08.7_G03.08

Incorrect version of rtosdrv.dll

If an APC with 16 interrupts (PIC types) is used as the target platform, e.g. an APC620 with an E855 board, there are problems with setup and when upgrading via AS. This is caused by incorrect versions of the dlls and driver involved.

ID#400058774 : solved problem, known since ARSG4_3.08.4_D03.08, solved since ARSG4_3.08.6_F03.08

Incorrect version of rtosdrv.dll

If an APC with 16 interrupts (PIC types) is used as the target platform, e.g. an APC620 with an E855 board, there are problems with setup and when upgrading via AS. This is caused by incorrect versions of the dlls and driver involved.

ID#400057456 : solved problem, known since ARSG4_3.01.7_G03.01, solved since ARSG4_4.00.12_L04.00

Update to ARwin configurator

It is now possible to set the broadcast address and the subnet mask.

ID#268630 : known problem since ARSG4_4.00.17_Q04.00, correction planned for ARSG4_4.00.18_R04.00

ARwin on Windows 7 doesn't work in Shared mode (when using more than 2GB DRAM)

ID#268405 : known problem since ARSG4_4.00.16_P04.00, correction planned for ARSG4_4.02.1_A04.02

Problems with ARwin in Windows 7 when firewall is on

In order to avoid ARwin communication problems in Windows 7, the Windows Firewall must be disabled for the "Realtime OS Virtual Network interface.

ID#400069705 : known problem since ARSG4_3.07.5_E03.07, correction planned for ARSG4_3.07.11_K03.07

Backup of remanent data to SRAM doesn't complete if ARwin is operated in Shared mode.

Solution: Use Exclusive mode

ID#400069705 : known problem since ARSG4_3.07.5_E03.07, correction planned for ARSG4_3.09.1_A03.09

Backup of remanent data to SRAM doesn't complete if ARwin is operated in Shared mode.

Solution: Use Exclusive mode

ID#400065938 : known problem since ARSG4_3.07.4_D03.07, correction planned for ARSG4_4.02.1_A04.02

c command line argument in the ARwin configuration disables not only the COM2 interface but also COM1.

AR - General SG4

ID#400062576 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.07.7_G03.07

Error handling SYSCONF module in SYSROM

ID#400062152 : solved problem, known since V3.00.81.24 SP0x, solved since ARSG4_3.08.4_D03.08

Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem

ID#400062576 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.08.10_J03.08

Error handling SYSCONF module in SYSROM

ID#400062576 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_4.00.10_J04.00

Error handling SYSCONF module in SYSROM

ID#400054674 : solved problem, known since ARSG4_3.00.22_V03.00, solved since ARSG4_3.08.9_I03.08

Module transfer to target not saved if there is not sufficient memory in the back-up partition.

If storage space runs out while writing the back-up copy of a .br module (to the back-up partition), then both files (original and back-up copy) will remain on the CF, but the module in the back-up copy will be incomplete. An error will not be reported in this case. This doesn't cause any problems until the "healthy" file in the first partition is restored using the incomplete module from the second partition. A checksum error for the .br module will now be detected.

ID#400054674 : solved problem, known since ARSG4_3.00.22_V03.00, solved since ARSG4_4.00.9_I04.00

Module transfer to target not saved if there is not sufficient memory in the back-up partition.

If storage space runs out while writing the back-up copy of a .br module (to the back-up partition), then both files (original and back-up copy) will remain on the CF, but the module in the back-up copy will be incomplete. An error will not be reported in this case. This doesn't cause any problems until the "healthy" file in the first partition is restored using the incomplete module from the second partition. A checksum error for the .br module will now be detected.

ID#400056892 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_3.08.6_F03.08

If the requested `bur_heap_size` (C++) is too large, the installation error `ERR_LOADER_USERHEAP` (5150) is now triggered

ID#400056892 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_4.00.6_F04.00

If the requested `bur_heap_size` (C++) is too large, the installation error `ERR_LOADER_USERHEAP` (5150) is now triggered

ID#400056515 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_3.07.4_D03.07

Watchdog after `CanWrite()` on IF060 with IF621

Initialization problems in the CAN IRQ routine can prevent IRQs from being acknowledged and trigger a watchdog error.

ID#400056515 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_3.08.6_F03.08

Watchdog after `CanWrite()` on IF060 with IF621

Initialization problems in the CAN IRQ routine can prevent IRQs from being acknowledged and trigger a watchdog error.

ID#400056515 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_4.00.6_F04.00

Watchdog after `CanWrite()` on IF060 with IF621

Initialization problems in the CAN IRQ routine can prevent IRQs from being acknowledged and trigger a watchdog error.

ID# 400054123, 400055855 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.3_C03.07

When downloading in one cycle mode, an interrupt block can cause an I/O cycle time violation (27306)

ID# 400054123, 400055855 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.6_F03.08

When downloading in one cycle mode, an interrupt block can cause an I/O cycle time violation (27306)

ID#400055674 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.4_D03.08

Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem

ID#400055674 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.3_C03.07

Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem

ID#400055674 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.5_E04.00

Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem

ID# 400046190, 400041900 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.4_D04.00

Upgrade to AR Version E3.01 can cause the CPU to continuously reboot

ID# 400054123, 400055855 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.6_F04.00

When downloading in one cycle mode, an interrupt block can cause an I/O cycle time violation (27306)

ID#400051241 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.2_B03.07

Remanent variables are not initialized with their INIT values when the CF is regenerated and a warm restart is performed.

ID# 400046190, 400041900 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.6_F03.08

Upgrade to AR Version E3.01 can cause the CPU to continuously reboot

ID#400043785 : solved problem, known since ARSG4_2.95.20_T02.95, solved since ARSG4_3.07.1_A03.07

No clear text in the error logbook when data in the SRAM is lost while shutting down

ID# 400002467, 400058853, 400058855 : new function since ARSG4_3.08.7_G03.08

Task class stack can only be configured up to a size of 1MB.

ID#400048512 : new function since ARSG4_4.00.9_I04.00

It is not possible to use C variables larger than 16 MB.

If variables larger than 16 MB are declared in C programs, Error 4522 will be generated when the project is built.

ID# 400002467, 400058853, 400058855 : new function since ARSG4_4.00.7_G04.00

Task class stack can only be configured up to a size of 1MB.

ID#400066308 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_3.07.10_J03.07

Error copying CAN CMS objects

Data is copied byte-wise from the CMS object to the PVs, although the target PVs may have data types larger than one byte.

ID#400066308 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_4.02.1_A04.02

Error copying CAN CMS objects

Data is copied byte-wise from the CMS object to the PVs, although the target PVs may have data types larger than one byte.

ID#400055674 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_3.08.4_D03.08

Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem

ID# 400046190, 400041900 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_3.07.11_K03.07

Upgrade to AR Version E3.01 can cause the CPU to continuously reboot

ID#400005281 : known problem since ARSG4_2.94.22_V02.94, correction planned for ARSG4_3.08.2_B03.08

INA online connection to X20CS1020 stops working when the modem configuration is also activated

AR - PP45

ID#400055836 : new function since ARSG4_3.07.6_F03.07

PP45 could fail at low temperatures

Low temperatures can cause a timer on the CPU to stop running. This problem can only be corrected by resetting the timer.

ID#400055836 : new function since ARSG4_3.08.8_H03.08

PP45 could fail at low temperatures

Low temperatures can cause a timer on the CPU to stop running. This problem can only be corrected by resetting the timer.

ID#400055836 : new function planned for ARSG4_4.00.8_H04.00

PP45 could fail at low temperatures

Low temperatures can cause a timer on the CPU to stop running. This problem can only be corrected by resetting the timer.

Diagnose - Debugger

ID#400053447 : solved problem, known since V3.00.81.20 SP01, solved since ARSG4_3.07.6_F03.07

In some circumstances, the watchdog may be triggered during debugging because a required system resource (Mutex) is not available

ID# 400035047, 400036404 : solved problem, known since ARSG4_3.08.25_Y03.08, solved since ARSG4_4.00.11_K04.00

If a breakpoint is reached in the INIT SP, then it is no longer possible to leave the breakpoint. Execute (F5), Step Over (F10) or Step Into (F11) do not have an affect.

ID#400037524 : solved problem, known since V3.00.80.25, solved since ARSG4_3.08.3_C03.08

Error "9098 - System I/O cross-link task cycle time violation" is generated when a SafePLC and standard PLC are linked and a breakpoint is set on the standard PLC.

ID#400054111 : known problem since ARSG4_3.01.9_I03.01, correction planned for ARSG4_3.07.4_D03.07

Debugger terminates online connection

If application data is being exchanged with a target system via Ethernet, and a breakpoint is reached, all Ethernet buffers are used up (since the data is no longer picked up) and Ethernet communication is terminated. It is also no longer possible to establish an online connection.

ID#400054111 : known problem since ARSG4_3.01.9_I03.01, correction planned for ARSG4_3.08.5_E03.08

Debugger terminates online connection

If application data is being exchanged with a target system via Ethernet, and a breakpoint is reached, all Ethernet buffers are used up (since the data is no longer picked up) and Ethernet communication is terminated. It is also no longer possible to establish an online connection.

ID#400054111 : known problem since ARSG4_3.01.9_I03.01, correction planned for ARSG4_4.00.4_D04.00

Debugger terminates online connection

If application data is being exchanged with a target system via Ethernet, and a breakpoint is reached, all Ethernet buffers are used up (since the data is no longer picked up) and Ethernet communication is terminated. It is also no longer possible to establish an online connection.

Diagnose - Logger

ID#400057809 : solved problem, known since , solved since ARSG4_3.08.6_F03.08

Using logger functions in fast task classes can lead to cycle time violations

Due to the copying required, using logger functions in fast task classes can lead to cycle time violations.

ID#400057809 : solved problem, known since ARSG4_3.01.8_H03.01, solved since ARSG4_4.00.7_G04.00

Using logger functions in fast task classes can lead to cycle time violations

Due to the copying required, using logger functions in fast task classes can lead to cycle time violations.

Diagnose - SDM

ID#400065562 : solved problem, known since ARSG4_3.07.6_F03.07, solved since ARSG4_3.07.7_G03.07

SDM 1 (Automation Studio 3.0.80) doesn't work with Firefox 4.0 and higher

The first version of the System Diagnostics Manager (SDM), delivered with Automation Studio 3.00.80 / 3.00.81 doesn't work correctly with Firefox version 4.0 or higher.
Customers who use Firefox 4.0 or higher need to switch to SDM 2, provided with Automation Studio 3.00.90.

ID#400053957 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.4_D03.07

Time calculation incorrect for logger entries in SDM

When time zones were used, calculation of the local time for logger entries in SDM was incorrect. This has been corrected.

ID#400053957 : solved problem, known since unbekannt, solved since ARSG4_3.08.5_E03.08

Time calculation incorrect for logger entries in SDM

When time zones were used, calculation of the local time for logger entries in SDM was incorrect. This has been corrected.

ID#400013287 : new function since ARSG4_3.08.9_I03.08

Use the Diagnostics System Manager to list modules' diagnostics data points

The System Diagnostics Manager can be used to save all of a module's diagnostic data points in a system dump.

Diagnose - Tracer

ID# 400053004, 400052525 : solved problem, known since V3.00.81.18, solved since ARSG4_3.07.6_F03.07

Trigger condition not working

If a trace with trigger condition is installed in the trace editor, then the trace will begin after the defined trigger event and automatically stop as soon as the buffer is full. If the trace is started again using the "Trace / Start" option in the main menu, the Start option in the shortcut menu or the "green traffic light" button, then the trace will be extremely slow or will not be started correctly.

ID# 400053004, 400052525 : solved problem, known since V3.00.81.18, solved since ARSG4_3.08.8_H03.08

Trigger condition not working

If a trace with trigger condition is installed in the trace editor, then the trace will begin after the defined trigger event and automatically stop as soon as the buffer is full. If the trace is started again using the "Trace / Start" option in the main menu, the Start option in the shortcut menu or the "green traffic light" button, then the trace will be extremely slow or will not be started correctly.

ID# 400053004, 400052525 : solved problem, known since V3.00.81.18, solved since ARSG4_4.00.8_H04.00

Trigger condition not working

If a trace with trigger condition is installed in the trace editor, then the trace will begin after the defined trigger event and automatically stop as soon as the buffer is full. If the trace is started again using the "Trace / Start" option in the main menu, the Start option in the shortcut menu or the "green traffic light" button, then the trace will be extremely slow or will not be started correctly.

IO System - 2003 Backplane

ID#400066089 : known problem since V2.7.0.4102 [V2.94], correction planned for ARSG4_3.07.11_K03.07

30479, 27306 when starting 7CP570.60-1 with four AF modules

When a fourth 7AF101.7 module with some free connections and five 7DM465.7 modules were connected to a 7AF101.7 module with three 7AF101.7 modules with no free connections, then turning on the analog module connected to the fourth 7AF101.7 caused a timeout, and Error 30479 was entered in the logbook. Then the AR resets the firmware of the 2003 backplane, and there is an I/O cycle time violation (27306). The timeout was set to low for this configuration and has been increased accordingly in the current version of AR.

ID#400066089 : known problem since V2.7.0.4102 [V2.94], correction planned for ARSG4_3.09.1_A03.09

30479, 27306 when starting 7CP570.60-1 with four AF modules

When a fourth 7AF101.7 module with some free connections and five 7DM465.7 modules were connected to a 7AF101.7 module with three 7AF101.7 modules with no free connections, then turning on the analog module connected to the fourth 7AF101.7 caused a timeout, and Error 30479 was entered in the logbook. Then the AR resets the firmware of the 2003 backplane, and there is an I/O cycle time violation (27306). The timeout was set to low for this configuration and has been increased accordingly in the current version of AR.

IO System - CANIO

ID#400039937 : solved problem, known since V3.00.80.25, solved since ARSG4_3.07.6_F03.07

CANIO slaves are not always found after startup

ID#400039937 : solved problem, known since V3.00.80.25, solved since ARSG4_3.08.8_H03.08

CANIO slaves are not always found after startup

ID#400039937 : solved problem, known since V3.00.80.25, solved since ARSG4_4.00.8_H04.00

CANIO slaves are not always found after startup

IO System - CANopen

ID#400060887 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_3.07.6_F03.07

CANopen slave not started by the master if it sends only an emergency telegram with data =0 instead of a Boot-Up message

ID#400060887 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_3.08.8_H03.08

CANopen slave not started by the master if it sends only an emergency telegram with data =0 instead of a Boot-Up message

ID#400056381 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.4_D03.07

Priority of CANopen master can be configured

The user can configure the priority of the CANopen master in order to adjust the system load for a particular application.

ID#400056381 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.5_E03.08

Priority of CANopen master can be configured

The user can configure the priority of the CANopen master in order to adjust the system load for a particular application.

ID#400056272 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.5_E04.00

Priority of CANopen master can be configured

The user can configure the priority of the CANopen master in order to adjust the system load for a particular application.

ID#400060887 : new function since ARSG4_4.00.8_H04.00

CANopen slave not started by the master if it sends only an emergency telegram with data =0 instead of a Boot-Up message

IO System - General

ID#400064601 : solved problem, known since ARSG4_3.08.8_H03.08, solved since ARSG4_3.08.10_J03.08

Insufficient logbook entry when ArConfig has double channels/QLinks.

If the ArConfig contains double channels or QLinks, then Error 30965 "No name specification" appears, which hardly explains the actual cause of the error.

ID#400064601 : solved problem, known since ARSG4_3.08.8_H03.08, solved since ARSG4_4.00.10_J04.00

Insufficient logbook entry when ArConfig has double channels/QLinks.

If the ArConfig contains double channels or QLinks, then Error 30965 "No name specification" appears, which hardly explains the actual cause of the error.

ID#400028352 : solved problem, known since ARSG4_3.00.15_O03.00, solved since ARSG4_3.08.9_I03.08

If global variables mapped to I/O points receive new addresses due to a change to the project, it is possible that the variable values are no longer transferred to the I/O points.

ID#400058109 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_3.07.6_F03.07

It can take very long to install I/O mappings, which can result in the connection being terminated due to a time violation.

ID#400058109 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_3.08.7_G03.08

It can take very long to install I/O mappings, which can result in the connection being terminated due to a time violation.

ID#400058109 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_4.00.7_G04.00

It can take very long to install I/O mappings, which can result in the connection being terminated due to a time violation.

ID#400057340 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_4.00.6_F04.00

POWERLINK reports error 27306 when starting a visualization application

When initializing the graphics card, the SOC interrupt is delayed, which causes an I/O cycle time violation to be reported. Since cyclic data is not transferred in this early boot phase, I/O cycle time violations are now only evaluated after the beginning of cyclic data transfer.

ID#400057340 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_3.08.6_F03.08

POWERLINK reports error 27306 when starting a visualization application

When initializing the graphics card, the SOC interrupt is delayed, which causes an I/O cycle time violation to be reported. Since cyclic data is not transferred in this early boot phase, I/O cycle time violations are now only evaluated after the beginning of cyclic data transfer.

ID#400057340 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_3.07.4_D03.07

POWERLINK reports error 27306 when starting a visualization application

When initializing the graphics card, the SOC interrupt is delayed, which causes an I/O cycle time violation to be reported. Since cyclic data is not transferred in this early boot phase, I/O cycle time violations are now only evaluated after the beginning of cyclic data transfer.

ID#400057827 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_3.07.4_D03.07

Maximum number of device handles exceeded with approx. 400 safety modules

A setup with approx. 400 safety modules and an X20CP1485 ran out of device handles, which is indicated in the logbook by Error 26003 "AR-DevMan: no free admin entry". The maximum number of device instances has been increased and is now 2.5 times higher

ID# 400053665, 400054105, 400055244 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.2_B03.07

I/O cycle time violation during startup due to initialization of graphic card

During the startup of the CPU with a highly utilized PCI bus a IO cycle time violation 27306 could be triggered by the initialization of the visualization tasks. IO cycle time violations in early startup phases are now caught by the system.

ID# 400028352, 400065604 : solved problem, known since ARSG4_3.00.15_O03.00, solved since ARSG4_3.08.9_I03.08

If global variables mapped to I/O points receive new addresses due to a change to the project, it is possible that the variable values are no longer transferred to the I/O points.

IO System - ModbusTCP

ID#400060899 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.07.6_F03.07

Due to an error in the task queue of the Modbus driver, packages that are received may no longer be allocated to the sent queries, thereby causing a connection timeout.

ID#400060899 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.08.8_H03.08

Due to an error in the task queue of the Modbus driver, packages that are received may no longer be allocated to the sent queries, thereby causing a connection timeout.

ID#400060899 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_4.00.8_H04.00

Due to an error in the task queue of the Modbus driver, packages that are received may no longer be allocated to the sent queries, thereby causing a connection timeout.

ID#400051942 : solved problem, known since unbekannt, solved since ARSG4_3.07.5_E03.07

ModbusTCP doesn't start all slaves

The problem is caused when there are no sockets available when establishing the connection. The ModbusTCP driver doesn't finish the initialization.

ID#400051942 : solved problem, known since unbekannt, solved since ARSG4_4.00.7_G04.00

ModbusTCP doesn't start all slaves

The problem is caused when there are no sockets available when establishing the connection. The ModbusTCP driver doesn't finish the initialization.

ID#400051942 : solved problem, known since unbekannt, solved since ARSG4_3.08.6_F03.08

ModbusTCP doesn't start all slaves

The problem is caused when there are no sockets available when establishing the connection. The ModbusTCP driver doesn't finish the initialization.

ID#400048959 : solved problem, known since ARSG4_2.96.10_J02.96, solved since ARSG4_3.07.5_E03.07

ModbusTCP master doesn't work on AC141

IO System - netX

ID#400069009 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.08.15_O03.08

VC application blocks netX data communication

A priority problem interrupts netX data collection in the rhythm of the default update time of the data source.

ID#400069009 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_4.00.15_O04.00

VC application blocks netX data communication

A priority problem interrupts netX data collection in the rhythm of the default update time of the data source.

ID#400065361 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_3.07.7_G03.07

IF1063-1 doesn't work on the BC1083

IO System - Powerlink

ID#265455 : solved problem, known since V3.00.90.12, solved since V3.00.90.14

POWERLINK: Default value for asynchronous timeout changed from 25 s to 50 s

Default value for asynchronous timeout increased from 25 s to 50 s.

As a result, even relatively slow POWERLINK stations with a response time higher than 25 s are detected with the default setting.

ID#400068763 : solved problem, known since ARSG4_3.08.11_K03.08, solved since ARSG4_4.00.16_P04.00

Naming of POWERLINK devices from other vendors in AsIODiag

The function blocks of the Library AsIODiag returned "plk_any" or "epl_any" for POWERLINK-Devices from other vendors than B&R in former versions.

The current Automation Runtime returns device names in the format "u%xV%x-unknown" where the first %x is replaced with the device identifier and the second %x is replaced by the vendor identifier.

Only if the option "Verify Device Type" is switched off, devices configured by XDD-Import will return "epl_any".

ID#400068763 : solved problem, known since ARSG4_3.08.11_K03.08, solved since ARSG4_3.08.14_N03.08

Naming of POWERLINK devices from other vendors in AsIODiag

The function blocks of the Library AsIODiag returned "plk_any" or "epl_any" for POWERLINK-Devices from other vendors than B&R in former versions.

The current Automation Runtime returns device names in the format "u%xV%x-unknown" where the first %x is replaced with the device identifier and the second %x is replaced by the vendor identifier.

Only if the option "Verify Device Type" is switched off, devices configured by XDD-Import will return "epl_any".

ID#400060016 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_4.00.16_P04.00

Error 26051 in logbook when X20CS2770 after X20BCx083 on APC or Power Panel

If CANIO is enabled on both CAN interfaces of an X20CS2770 device being operated downstream from an X20BCx083 device, which itself is downstream from an APC or Power Panel, the error message "26051 AR-DD: xDeviceInit() error" is entered in the logbook. Starting with AR K4.00, CANIO can be run on both CAN interfaces.

ID#258192 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_4.00.11_K04.00

Firmware Update for SafeMC did not complete.

Due to a change in A4.00, the firmware update for SafeMC modules doesn't complete. The R/E LED for SafeMC modules continues to double-blink green.

Starting with J4.00, the firmware update for SafeMC modules functions correctly again.

ID#258187 : solved problem, known since ARSG4_3.07.2_B03.07, solved since V3.00.90.11

Firmware Update for SafeMC did not complete.

Due to a change in A3.08, the firmware update for SafeMC modules doesn't complete. The R/E LED for SafeMC modules continues to double-blink green.

Starting with J3.08, the firmware update for SafeMC modules functions correctly again.

ID#400065239 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_3.07.7_G03.07

Firmware Update for SafeMC did not complete.

Due to a change in B3.07, the firmware update for SafeMC modules doesn't complete. The R/E LED for SafeMC modules continues to double-blink green.

Starting with G3.07, the firmware update for SafeMC modules functions correctly again.

ID#400061758 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.14_N03.08

ACOPOS synchronization problem 6002 in cascading POWERLINK networks when POWERLINK cycle time > 2ms

If a CPU with a system cycle time >2ms is synchronized as iCN with a higher level POWERLINK network, and ACOPOS stations with a POWERLINK cycle time >2ms are operated on a second POWERLINK interface, then the error 6002 can occur on the ACOPOS if the MN of the higher level POWERLINK network is still not active when the controller is started up.

Starting with AR version H3.08, the algorithm for starting synchronization upon startup has been improved so that the ACOPOS firmware can also be synchronized at startup even when there are very long cycle times and the MN has not been activated.

ID#251322 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.9_I04.00

POWERLINK: ACOPOSmulti with SafeMC as chained station

ACOPOSmulti with SafeMC didn't work as a chained station.

ID#251317 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.5_E03.07

POWERLINK: ACOPOSmulti with SafeMC as chained station

ACOPOSmulti with SafeMC didn't work as a chained station.

ID#400060965 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.5_E03.07

POWERLINK: ACOPOSmulti with SafeMC as chained station

ACOPOSmulti with SafeMC didn't work as a chained station.

ID#400060016 : solved problem, known since ARSG4_3.07.2_B03.07, solved since ARSG4_3.08.12_L03.08

Error 26051 in logbook when X20CS2770 after X20BCx083 on APC or Power Panel

If CANIO is enabled on both CAN interfaces of an X20CS2770 device being operated downstream from an X20BCx083 device, which itself is downstream from an APC or Power Panel, the error message "26051 AR-DD: xDeviceInit() error" is entered in the logbook. Starting with AR K3.08, CANIO can be run on both CAN interfaces.

ID#400068762 : new function since ARSG4_3.08.12_L03.08

Read ACOPOS device type using AsIODiag function block

Starting with ACOPOS OS 2.28.0, the ACOPOS device type can be read using the function blocks of the AsIODiag library.

ID#237362 : new function since ARSG4_3.08.2_B03.08

Logbook entry for firmware update now contains old and new version

When the firmware for POWERLINK stations is updated, both the old and new version numbers are noted in the logbook

ID#400040758 : new function since ARSG4_3.08.2_B03.08

Old and new firmware version entered in logbook

If the firmware on a POWERLINK V2 station is updated, the old and new firmware versions are now entered in the logbook, like they are for POWERLINK V1.

ID# 400009063, 400065339 : new function since ARSG4_3.07.8_H03.07

Find unconfigured POWERLINK stations with ASIODiag

Unconfigured POWERLINK stations can now be found using the ASIODiag library.

IO System - Profibus

ID#400053732 : solved problem, known since V3.00.81.18, solved since ARSG4_3.07.4_D03.07

Priority of Profibus master can be configured

The user can configure the priority of the Profibus master in order to adjust the system load for a particular application.

ID#400053732 : solved problem, known since V3.00.81.18, solved since ARSG4_3.08.5_E03.08

Priority of Profibus master can be configured

The user can configure the priority of the Profibus master in order to adjust the system load for a particular application.

ID#400053732 : solved problem, known since V3.00.81.18, solved since ARSG4_4.00.5_E04.00

Priority of Profibus master can be configured

The user can configure the priority of the Profibus master in order to adjust the system load for a particular application.

IO System - X2X

ID#238445 : known problem since ARSG4_3.08.1_A03.08, correction planned for ARSG4_3.08.2_B03.08

StaleData on local X2X Link interface when X2X cycle > system cycle

If the X2X cycle time was longer than the system cycle time, the StaleData flag has been set during system cycles in which no new data was received on the X2X Link. This behaviour was inconsistent to X2X Link modules which were connected to a X2X Link/POWERLINK buscontroller. Now the StaleData flag is only set, if no data was received from the module during the X2X Link cycle. The Nettime of the X2X Link interface can be used. To determine if new X2X Link data was received during the latest system cycle.

Library - AsARCfg

ID#400047724 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.07.5_E03.07

When multiple Ethernet interfaces are used, interference in the routing table causes Error 29004 when the function block CfgSetDefaultGateway() is called

ID#400047724 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.08.6_F03.08

When multiple Ethernet interfaces are used, interference in the routing table causes Error 29004 when the function block CfgSetDefaultGateway() is called

ID# - , 400047408, 400049937 : solved problem, known since V3.00.81.12, solved since ARSG4_3.07.5_E03.07

Error 29009 occurs when reading the default gateway

ID# - , 400047408, 400049937 : solved problem, known since V3.00.81.12, solved since ARSG4_3.08.6_F03.08

Error 29009 occurs when reading the default gateway

ID#400047724 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_4.00.6_F04.00

When multiple Ethernet interfaces are used, interference in the routing table causes Error 29004 when the function block CfgSetDefaultGateway() is called

ID#400057746 : solved problem, known since ARSG4_3.06.4_D03.06, solved since ARSG4_3.07.5_E03.07

Calling the function block CfgSetEthConfigMode() with the same mode that is already in use triggers Error 29003

ID#400057746 : solved problem, known since ARSG4_3.06.4_D03.06, solved since ARSG4_3.08.6_F03.08

Calling the function block CfgSetEthConfigMode() with the same mode that is already in use triggers Error 29003

ID#400057746 : solved problem, known since ARSG4_3.06.4_D03.06, solved since ARSG4_3.07.5_E03.07

Calling the function block CfgSetEthConfigMode() with the same mode that is already in use triggers Error 29003

ID# - , 400047408, 400049937 : solved problem, known since V3.00.81.12, solved since ARSG4_3.07.5_E03.07

Error 29009 occurs when reading the default gateway

Library - AsARLog

ID#400059082 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.6_F03.08

Creating a new logger module using AsArLogCreate() deletes any existing tasks with the same name

ID#400059082 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.6_F04.00

Creating a new logger module using AsArLogCreate() deletes any existing tasks with the same name

ID#400072106 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_3.09.1_A03.09

Accessing the "Safety" and "Fieldbus" logbooks via library (with an index) causes a PageFault. The problem can be avoided by specifying the names "\$safety" or "\$fieldbus."

ID#400072106 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_4.01.1_A04.01

Accessing the "Safety" and "Fieldbus" logbooks via library (with an index) causes a PageFault. The problem can be avoided by specifying the names "\$safety" or "\$fieldbus."

ID#400072106 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_4.02.1_A04.02

Accessing the "Safety" and "Fieldbus" logbooks via library (with an index) causes a PageFault. The problem can be avoided by specifying the names "\$safety" or "\$fieldbus."

Library - AsCANopen

ID#400064575 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_3.07.7_G03.07

Attempt to download AsCANopen library to ARsim rejected with error 9650 "Library function not available"

ID#400064575 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_3.08.10_J03.08

Attempt to download AsCANopen library to ARsim rejected with error 9650 "Library function not available"

ID#400064575 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_4.00.10_J04.00

Attempt to download AsCANopen library to ARsim rejected with error 9650 "Library function not available"

ID#400055214 : solved problem, known since ARSG4_3.01.8_H03.01, solved since ARSG4_3.07.4_D03.07

Using CANopenNMT() can prevent a task download from completing

As a result the section of code for releasing the semaphore is not executed. The second time this function is called it is blocked by the semaphore and the task can't be completely transferred.

ID#400055214 : solved problem, known since ARSG4_3.01.8_H03.01, solved since ARSG4_3.08.4_D03.08

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ID#400055214 : solved problem, known since ARSG4_3.01.8_H03.01, solved since ARSG4_4.00.4_D04.00

Using CANopenNMT() can prevent a task download from completing

As a result the section of code for releasing the semaphore is not executed. The second time this function is called it is blocked by the semaphore and the task can't be completely transferred.

ID#400054457 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.3_C03.07

CANopenSDOWriteData() terminates after downloading several hundred bytes due to a full CAN buffer

ID#400054457 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.4_D03.08

CANopenSDOWriteData() terminates after downloading several hundred bytes due to a full CAN buffer

ID#400054457 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.4_D04.00

CANopenSDOWriteData() terminates after downloading several hundred bytes due to a full CAN buffer

ID#400055463 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.07.3_C03.07

CANopenSDOWrite8() only sends every second SDO

ID#400055463 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.08.4_D03.08

CANopenSDOWrite8() only sends every second SDO

ID#400055463 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_4.00.3_C04.00

CANopenSDOWrite8() only sends every second SDO

ID#400054360 : solved problem, known since V3.00.81.20 SP01, solved since ARSG4_3.07.2_B03.07

With the function block CanOpenGetState(), when enable=FALSE the function block freezes during execution

ID#400054360 : solved problem, known since V3.00.81.20 SP01, solved since ARSG4_3.08.3_C03.08

With the function block CanOpenGetState(), when enable=FALSE the function block freezes during execution

ID#400054360 : solved problem, known since V3.00.81.20 SP01, solved since ARSG4_4.00.3_C04.00

With the function block CanOpenGetState(), when enable=FALSE the function block freezes during execution

Library - AsEPL

ID#400055409 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.08.12_L03.08

EplSDORead() stays in the status "Busy" after the enable FB is set to FALSE

ID#400055409 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.08.14_N03.08

EplSDORead() stays in the status "Busy" after the enable FB is set to FALSE

Library - AsIMA

ID#400050977 : solved problem, known since unbekannt, solved since ARSG4_3.08.8_H03.08

AsIMA doesn't adjust for daylight savings time when reading the time from a peer station

ID#400050977 : solved problem, known since unbekannt, solved since ARSG4_4.00.8_H04.00

AsIMA doesn't adjust for daylight savings time when reading the time from a peer station

ID#400039843 : known problem since ARSG4_3.01.1_A03.01, correction planned for ARSG4_3.07.9_I03.07

Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC

ID#400039843 : known problem since ARSG4_3.01.1_A03.01, correction planned for ARSG4_3.08.14_N03.08

Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC

ID# 400035792, 400020837 : known problem since ARSG4_3.00.22_V03.00, correction planned for ARSG4_3.07.9_I03.07

Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC

ID# 400035792, 400020837 : known problem since ARSG4_3.00.22_V03.00, correction planned for ARSG4_3.08.14_N03.08

Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC

ID#400039843 : known problem since ARSG4_3.01.1_A03.01, correction planned for ARSG4_4.00.14_N04.00

Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC

ID#400007523 : known problem since V3.0.71.16 SP01, correction planned for ARSG4_3.08.10_J03.08

AsIMA ignores time zone information

ID# 400035792, 400020837 : known problem since ARSG4_3.00.22_V03.00, correction planned for ARSG4_4.00.14_N04.00

Under certain circumstances (INAaction with multiple PV objects) AR version 3.06/3.07 for SG4 is no longer compatible with older versions of AR or with SG3 / SGC

ID#400007523 : known problem since V3.0.71.16 SP01, correction planned for ARSG4_4.00.10_J04.00

AsIMA ignores time zone information

Library - AsIODiag

ID#257265 : new function since ARSG4_3.08.16_P03.08

Detection of POWERLINK hardware using AS-IO-Diag

In the past, when POWERLINK devices from other manufacturers were detected, the function block DiagGetStrInfo with infoCode asdiagPLUGGED_MODULE returned the string "epl_any".

Starting with AR N3.08, devices from other manufacturers will return a string with the format "u% xV% x-PL-unknown", where the first %x represents the hexadecimal product code and the second %x represents the hexadecimal vendor ID.

If the function for checking the vendor ID and product code is enabled and these codes match the detected POWERLINK device, then the

model number of the configured device is applied so that the strings returned with the infoCodes asdiagCONFIG_MODULE and asdiagPLUGGED_MODULE match.

ID#253632 : new function since ARSG4_4.00.16_P04.00

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Starting with AR N4.00, devices from other manufacturers will return a string with the format "u% xV% x-PL-unknown", where the first %x represents the hexadecimal product code and the second %x represents the hexadecimal vendor ID.

If the function for checking the vendor ID and product code is enabled and these codes match the detected POWERLINK device, then the model number of the configured device is applied so that the strings returned with the infoCodes asdiagCONFIG_MODULE and asdiagPLUGGED_MODULE match.

Library - AsL2DP

ID#400030702 : new function since ARSG4_4.00.11_K04.00

New function block L2DPGetNode() for reading Profibus station number

ID#400030702 : new function since ARSG4_4.00.11_K04.00

New function block L2DPGetNode() for reading Profibus station number

Library - AsMem

ID# 400007099, 400044198 : solved problem, known since V2.7.0.0010 SP03, solved since ARSG4_3.08.6_F03.08

AsMemPartFree returned -8 byte free memory size

The function block AsMemPartFree for requesting the free memory size of a memory partition created with AsMemPartFree returned the value numByteFree = 4294967288 (= 16#FFFFFFF8 = -8), if the whole memory was allocated.

ID# 400007099, 400044198 : solved problem, known since V2.7.0.0010 SP03, solved since ARSG4_4.00.6_F04.00

AsMemPartFree returned -8 byte free memory size

The function block AsMemPartFree for requesting the free memory size of a memory partition created with AsMemPartFree returned the value numByteFree = 4294967288 (= 16#FFFFFFF8 = -8), if the whole memory was allocated.

ID#245157 : new function since ARSG4_4.00.6_F04.00

The value specified for AsMemPartCreate now corresponds to the largest allocated block

The value entered for AsMemPartCreate is rounded up to the closest multiple of 8, and then matches the largest allocated block. In older versions of AR, the management overhead of up to 112 bytes was also taken from the created partition.

Library - AsNxCoM

ID#400062449 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.07.7_G03.07

When using multiple netX CANOpen master modules, a different handle is used for each module, which speeds up asynchronous function block processing.

ID#400062449 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.08.10_J03.08

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ID#400062449 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_4.00.10_J04.00

When using multiple netX CANOpen master modules, a different handle is used for each module, which speeds up asynchronous function block processing.

Library - AsUSB

ID#400051015 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_3.07.3_C03.07

Support for Cino F788-G barcode scanner

ID#400051015 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_3.08.4_D03.08

Support for Cino F788-G barcode scanner

ID#400051015 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_4.00.6_F04.00

Support for barcode scanner Cino F788-G

Library - AsXML

ID#400054911 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.07.2_B03.07

Function blocks from AsXML library ignore enable input

ID#400054911 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.3_C03.08

Function blocks from AsXML library ignore enable input

ID#400054911 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.4_D04.00

Function blocks from AsXML library ignore enable input

Library - CAN_lib

ID#400060652 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_3.07.5_E03.07

CANrwtab() returns invalid data

When CAN telegrams with fewer than 8 bytes are received, 8 are always written to the receive buffer (unused bytes are not written with 0).

ID#400060652 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_3.08.7_G03.08

CANrwtab() returns invalid data

When CAN telegrams with fewer than 8 bytes are received, 8 are always written to the receive buffer (unused bytes are not written with 0).

ID#400060652 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_4.00.7_G04.00

CANrwtab() returns invalid data

When CAN telegrams with fewer than 8 bytes are received, 8 are always written to the receive buffer (unused bytes are not written with 0).

Library - FileIO

ID#400069276 : solved problem, known since ARSG4_3.08.10_J03.08, solved since ARSG4_3.07.9_I03.07

Using a handle that has already been closed can cause a page fault (read, write, or close on a handle)

ID#400069276 : solved problem, known since ARSG4_3.08.10_J03.08, solved since ARSG4_3.08.14_N03.08

Using a handle that has already been closed can cause a page fault (read, write, or close on a handle)

ID#400069276 : solved problem, known since ARSG4_3.08.10_J03.08, solved since ARSG4_4.00.14_N04.00

Using a handle that has already been closed can cause a page fault (read, write, or close on a handle)

ID#400060157 : solved problem, known since ARSG4_2.96.12_L02.96, solved since ARSG4_3.07.6_F03.07

The status BUSY can remain set for up to 120 minutes if the connection is lost when using the function block DirInfo() over a network

ID#400060157 : solved problem, known since ARSG4_2.96.12_L02.96, solved since ARSG4_3.08.9_I03.08

The status BUSY can remain set for up to 120 minutes if the connection is lost when using the function block DirInfo() over a network

ID#400051743 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.2_B03.08

If no destination directory is specified for DirCopy(), copying to ARsim doesn't work.

ID#400048318 : new function since ARSG4_3.08.11_K03.08

New function blocks FileWriteEx() and FileTruncate()

ID#400063458 : new function since ARSG4_3.08.10_J03.08

DevLink() blocks other file actions for a relatively long time

ID#400038864 : new function since ARSG4_3.08.9_I03.08

Function blocks now return the error 20709 (fiERR_FILE_DEVICE) if a device is not present

ID#400063458 : new function since ARSG4_4.00.10_J04.00

DevLink() blocks other file actions for a relatively long time

ID#400048318 : new function since ARSG4_4.00.11_K04.00

New function blocks FileWriteEx() and FileTruncate()

ID#400038864 : new function since ARSG4_4.00.10_J04.00

Function blocks now return the error 20709 (fiERR_FILE_DEVICE) if a device is not present

Library - LoopConR

ID#400067831 : known problem since unbekannt, correction planned for ARSG4_4.02.1_A04.02

Memory management problem with task overload corrected with library version V2.80.1 and up

Library - SYS_lib

ID#400011003 : solved problem, known since ARSG4_4.00.3_C04.00, solved since ARSG4_4.00.6_F04.00

TIM_musec returns incorrect time when the system tick isn't a whole number multiple or factor of 10 milliseconds

If the system tick is not a real factor or whole number multiple of 10 milliseconds, then the microsecond counter is not reset after exactly 10 milliseconds as specified.

For example, with a system tick of 1600µs it is reset after 9600µs (6x1600) or 11200µs (7x1600).

The AsIOTimeStamp() function from the AsIOTime library is better suited for time measurements.

ID#400011003 : solved problem, known since ARSG4_3.08.4_D03.08, solved since ARSG4_3.08.6_F03.08

TIM_musec returns incorrect time when the system tick isn't a whole number multiple or factor of 10 milliseconds

If the system tick is not a real factor or whole number multiple of 10 milliseconds, then the microsecond counter is not reset after exactly 10 milliseconds as specified.

For example, with a system tick of 1600µs it is reset after 9600µs (6x1600) or 11200µs (7x1600).

The AsIOTimeStamp() function from the AsIOTime library is better suited for time measurements.

System - ANSL

ID#400055699 : solved problem, known since V3.00.81.22 SP01, solved since ARSG4_4.00.8_H04.00

VC Windows Terminal: Changes to Enum variables are not updated on the terminal, but changes from the terminal are updated on the CPU

System - Firmware

ID#257430 : solved problem, known since ARSG4_3.01.11_K03.01, solved since ARSG4_3.07.6_F03.07

PP065 in combination with a 4PP065.IF23-1 no longer booting due to a faulty flash access after a firmware update

ID#257375 : solved problem, known since ARSG4_3.01.11_K03.01, solved since ARSG4_3.08.10_J03.08

PP065 in combination with a 4PP065.IF23-1 no longer booting due to a faulty flash access after a firmware update

ID#400059335 : solved problem, known since unbekannt, solved since ARSG4_3.07.6_F03.07

Correction of the error in which very short and light pressure on the touch screen can cause the position to be evaluated incorrectly

ID#400059335 : solved problem, known since unbekannt, solved since ARSG4_3.08.10_J03.08

Correction of the error in which very short and light pressure on the touch screen can cause the position to be evaluated incorrectly

ID#400054833 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.08.4_D03.08

PP065: Warning "26061 Cannot configure minimum reduced cycle time due to old firmware" because of different drivers or POWERLINK firmware

ID#400048657 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.3_C04.00

PP045 with IF24 (L2DP) returns incorrect data when odd addresses are read in the Profibus image

ID#400037284 : new function since ARSG4_3.08.10_J03.08

Improved response time for PP065 touch screen

ID#400037284 : new function planned for ARSG4_3.07.2_B03.07

Improved response time for PP065 touch screen

ID#400059335 : known problem since unbekannt, correction planned for ARSG4_4.00.7_G04.00

Correction of the error in which very short and light pressure on the touch screen can cause the position to be evaluated incorrectly

ID#400054833 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_3.07.2_B03.07

PP065: Warning "26061 Cannot configure minimum reduced cycle time due to old firmware" because of different drivers or POWERLINK firmware

ID#400048657 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_3.07.2_B03.07

PP045 with IF24 (L2DP) returns incorrect data when odd addresses are read in the Profibus image

ID#400054833 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_4.00.3_C04.00

PP065: Warning "26061 Cannot configure minimum reduced cycle time due to old firmware" because of different drivers or POWERLINK firmware

System - Firmware

ID#400037284 : new function since ARSG4_3.07.2_B03.07

Improved response time for PP065 touch screen

ID#400048657 : known problem since ARSG4_3.06.22_V03.06, correction planned for ARSG4_3.08.4_D03.08

PP045 with IF24 (L2DP) returns incorrect data when odd addresses are read in the Profibus image

System - FTP Server

ID#400055971 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.00.9_I04.00

ARemb terminates INA connection if an attempt is made to access a non-existing partition via FTP

System - OPC

ID#400055614 : solved problem, known since PVI3.00.00.3119, solved since ARSG4_3.08.8_H03.08

"VT_DATE local" wrong for DCOM routines - in leap years the date is offset by one day

ID#400055610 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_3.08.8_H03.08

DT and DATE_AND _TIME variables are converted incorrectly by VT_DATE when they are written.

ID#400055610 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_4.00.8_H04.00

DT and DATE_AND _TIME variables are converted incorrectly by VT_DATE when they are written.

ID#400055614 : solved problem, known since PVI3.00.00.3119, solved since ARSG4_4.00.8_H04.00

"VT_DATE local" wrong for DCOM routines - in leap years the date is offset by one day

ID#400046414 : solved problem, known since ARSG4_3.06.3_C03.06, solved since ARSG4_3.07.1_A03.07

Pagefault / Memory not in heap

Incorrect handling of strings leads to page fault or "Memory not in heap" errors.

System - WebServer

ID#400057308 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.07.5_E03.07

Target crashes with page fault in the web server module when an ASP write command is run from a website with more than 9 variables.

ID#400052213 : solved problem, known since V3.00.80.31 SP01, solved since ARSG4_3.08.11_K03.08

ENUM data types in ASP functions

With the current version of AR, it is now possible to use ENUM data types in HTML pages via ASP functions.

ID#400057308 : solved problem, known since ARSG4_3.01.9_I03.01, solved since ARSG4_3.08.11_K03.08

Target crashes with page fault in the web server module when an ASP write command is run from a website with more than 9 variables.

ID#400053444 : solved problem, known since ARSG4_3.00.22_V03.00, solved since ARSG4_3.07.3_C03.07

Variable values sometimes displayed incorrectly on ASP pages

On large ASP pages, some PV values are not evaluated correctly by the respective ASP function.
As a result, the HTML page displays illegible special characters instead of the actual PV value.
This error has been corrected.

ID#400053444 : solved problem, known since ARSG4_3.00.22_V03.00, solved since ARSG4_3.08.8_H03.08

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On large ASP pages, some PV values are not evaluated correctly by the respective ASP function.
As a result, the HTML page displays illegible special characters instead of the actual PV value.
This error has been corrected.

ID#400049979 : solved problem, known since ARSG4_3.01.7_G03.01, solved since ARSG4_3.07.4_D03.07

SDM - Update problems with dynamic page content

If a PC has multiple connections to the SDM (via multiple browser windows or multiple tabs within one browser), then dynamic SVG pages (CPU temperature, CPU load) are not updated continuously. This problem has been corrected.

ID#400053444 : solved problem, known since ARSG4_3.00.22_V03.00, solved since ARSG4_4.00.8_H04.00

Variable values sometimes displayed incorrectly on ASP pages

On large ASP pages, ASP functions are not evaluated correctly.
As a result, the HTML page displays illegible special characters instead of the actual PV value.
This error has been corrected.

ID#400052213 : solved problem, known since V3.00.80.31 SP01, solved since ARSG4_4.00.11_K04.00

ENUM data types in ASP functions

With the current version of AR, it is now possible to use ENUM data types in HTML pages via ASP functions.

ID#400049979 : solved problem, known since ARSG4_3.01.7_G03.01, solved since ARSG4_3.08.5_E03.08

SDM - Update problems with dynamic page content

If a PC has multiple connections to the SDM (via multiple browser windows or multiple tabs within one browser), then dynamic SVG pages (CPU temperature, CPU load) are not updated continuously.
This problem has been corrected.

1A4000.02 (2.1 Automation Runtime SGC)

AR - General SGC

ID#400068517 : solved problem, known since ARSGC_2.31.6.F02.31, solved since ARSGC_2.32.6.F02.32

Changing the number of configured task classes can cause an error when booting the system (27352 - Error generating a task class)

ID#400060158 : solved problem, known since ARSGC_2.31.5.E02.31, solved since ARSGC_2.32.2.B02.32

I/O outputs are set although the target is in service mode

Firmware

ID#264890 : known problem since ARSGC_2.31.5.E02.31, correction planned for ARSGC_2.32.6.F02.32

X20CP0291: new firmware V43

- solved problem that occurred in projects that have no X2X modules but a long X2X cycle time (A&P 181220)
- UdpSend error number if port number = 0 (A&P 246075)
- ip address has been used even after the DHCP lease has been expired (A&P 257895)
- using default host name for DHCP (= "BR006065xxxxxx", where xxxxxx = the last 6 digits of the MAC address)

ID#264885 : known problem since ARSGC_2.31.5.E02.31, correction planned for ARSGC_2.32.6.F02.32

X20CP0292: new firmware V43

- solved problem that occurred in projects that have no X2X modules but a long X2X cycle time (A&P 181220)
- UdpSend error number if port number = 0 (A&P 246075)
- ip address has been used even after the DHCP lease has been expired (A&P 257895)
- using default host name for DHCP (= "BR006065xxxxxx", where xxxxxx = the last 6 digits of the MAC address)

ID#264880 : known problem since ARSGC_2.31.5.E02.31, correction planned for ARSGC_2.32.6.F02.32

X20XC0292: new firmware V43

- solved problem that occurred in projects that have no X2X modules but a long X2X cycle time (A&P 181220)
- UdpSend error number if port number = 0 (A&P 246075)
- ip address has been used even after the DHCP lease has been expired (A&P 257895)
- using default host name for DHCP (= "BR006065xxxxxx", where xxxxxx = the last 6 digits of the MAC address)

Library - DataObject

ID#400056097 : solved problem, known since ARSGC_2.31.4.D02.31, solved since ARSGC_2.32.2.B02.32

When generating data objects in the target memories USRROM and SYSROM using the function blocks DataObjCopy() and DataObjMove(), Error 20604 "Error installing data object" is returned.

Library - DM_lib

ID#400063995 : solved problem, known since ARSGC_2.31.6.F02.31, solved since ARSGC_2.32.5.E02.32

If DM_Lib function blocks are used to write to the user flash of the SGC CPU, after some time a locking problem results in Error 6025 - "Checksum of system management table destroyed".

Library - Standard

ID#400039589 : solved problem, known since ARSGC_2.01.7.G02.01, solved since ARSGC_2.32.5.E02.32

Sporadic error with TON_10ms

The elapsed time of the FUBs can sometimes sporadically jump to PT, causing the FUB output to be set.

1A4000.02 (2.2 Automation Runtime SG3)

AR - General SG3

ID#400023939 : solved problem, known since ARSGC_2.01.7.G02.01, solved since ARSG3_2.51.1_X08.08

Error initializing STRING variables

A STRING variable with a length of 255 bytes causes an endless loop when a task is installed on the target.

Library - DataObject

ID# 400056019, 400059564 : solved problem, known since V3.00.81.18, solved since ARSG3_2.52.3_X08.13

In AR version D2.31 and higher, DatObjCreate() sends the status 0xFFFF even though Enable = TRUE

Library - IOConfig

ID#400029636 : solved problem, known since V2.7.0.0017 SP10, solved since ARSG3_2.51.2_X08.09

IOC2003() delivers status 5556 if local variables are saved in user RAM

Library - PPDPR

ID#400027625 : solved problem, known since V3.0.71.31 SP05, solved since ARSG3_2.51.2_X08.09

Functions from PPDPR library not found

Due to an error during export of the functions from the PPDPR library, they cannot be found when installing a task Error 9513.

Library - SYS_lib

ID# 400035331, 400036518 : solved problem, known since ARSG3_2.50.1_X08.06, solved since ARSG3_2.51.3_X08.10

PV_xgetadr() always returns Status 3092

1A4000.02 Automation Net/PVI**Linie - INA2000**

ID#400052878 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3107

Structure data with FBK elements and BOOLEAN variables is displayed incorrectly in the PVI

If a structure variable contains at least one FBK element with at least one BOOLEAN variable, then the subsequent array elements will be incorrectly displayed in the PVI. This causes incorrect data to be provided during read access.

ID#400042314 : solved problem, known since PVI3.00.00.3117, solved since PVI3.00.02.3107

Error 4820 after multiple restarts of client and CPU

ID#400044791 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.08

Error 4813 when transferring project after "Rebuild All"

Transferring certain projects terminates with Error 4813 if a "Rebuild All" is performed first.

ID#400061601 : new function planned for PVI3.00.02.3106

Global setting for the index type of array variables from the INA2000 line.

Currently, the index type (flat or dimensional indexing) can only be defined on the variable object (Parameter "/ROI"). However, it should be possible to specify the index type globally on the CPU object. This setting should then work for all connected variable objects.

ID#400059678 : known problem since PVI3.00.00.3121, correction planned for PVI3.00.02.3108

The data pointer in the PVI callback is not ZERO for a Write-Response.

The data pointer in the PVI callback of the user message "PVCALLBACK_DATA" is not ZERO if response data is not present (e.g.: for a Write-Response). However, the value in the argument data length is correct.

ID#400057808 : known problem since PVI3.00.00.3021, correction planned for PVI3.00.02.3103

PVI crashes when writing a CPU status string with the length 0

If a status string with the length 0 (zero) is written to the CPU object, then the PVI component INA2000 line crashes.

PVI DataLogger

ID#400048851 : new function since PVI3.00.02.3107

PVI doesn't generate any logger files if the specified directory doesn't exist.

The path specified in the PVI monitor for logger files is not checked. If the path doesn't exist, no PVI logger files are generated.

PVI General

ID#400043745 : new function since PVI3.00.02.3104

Support for 64-bit PVI Client applications

ID#400060259 : known problem since PVI3.00.00.3121, correction planned for PVI3.00.02.3106

TC global variables from PG2000 programs are read incorrectly.

Global task class variables that are still contained in programs that were originally written using PG2000 cannot be correctly read using PVI 3.0.

PVI Manager

ID#242102 : solved problem, known since PVI3.00.02.3101, solved since PVI3.00.02.3107

PVI error when there are two process objects with the same name

An error is not generated when creating process objects with the same name according to the naming convention "unique object names". Having multiple process objects with the same name does make it impossible to map the objects correctly.
Example: A global variable object and a task object with the same name are created on the same level in the hierarchy. Then the user tries to map local variable objects to the task object. Due to the double names, sometimes the task object and sometimes the global variable object can be mapped. The last case results in Error 12009 (illegal object hierarchy).

PVI Monitor

ID#400057533 : solved problem, known since PVI3.00.00.3019, solved since PVI3.00.02.3105

In Windows 7 an error is generated when applying the PVI diagnostics settings.

If you are not logged on to Windows 7 as the administrator, then system error 5 appears when you apply the PVI diagnostics settings.

PVI OPC Monitor

ID# 400048361, 400068942, 400074073 : solved problem, known since PVI3.00.00.3117, solved since PVI3.00.02.3007

If started in a 64-bit environment (e.g. Windows 7 x64), the OPC Monitor crashes with an error message and cannot be used.

ID#400040592 : solved problem, known since PVI3.00.00.3116, solved since PVI3.00.02.3007

OPC monitor stops responding on Windows 7 - 64 bit

The OPC monitor stops responding on Windows 7 - 64 bit after it is started

PVI OPC Server DA 3.0

ID#400061893 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3007

OPC server - continuous RAM consumption

Each time a value changes on an item, the OPC server consumes an additional 30MB of RAM

ID# 400059786, 400071010, 400071856 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3105

OPC server DA 3.0 doesn't return DataChanged events in Windows Vista / 7

If the PVI OPC server DA 3.0 is running under Windows Vista or Windows 7, clients connected to the server don't receive any DataChanged events.

ID# 400047558, 400054453, 400061539 : solved problem, known since PVI3.00.00.3118, solved since PVI3.00.02.3008

Windows OPC server handles BOOL arrays incorrectly

Two elements from the variable array with the type BOOL are linked by an OR operator to an element from the OPC array.

ID#400045215 : solved problem, known since PVI3.00.00.3117, solved since PVI3.00.02.3005

Minimum subscription refresh rate for OPC server DA 3.0 is 200ms

The minimum refresh rate for OPC subscriptions is limited to 200ms. This can be too slow for high-speed applications.

ID# 400045783, 400061055 : known problem since PVI3.00.00.3119, correction planned for PVI3.00.02.3005

OPC server DA 3.0 doesn't return DataChanged events in Windows Vista / 7

If the PVI OPC server DA 3.0 is running under Windows Vista or Windows 7, clients connected to the server don't receive any DataChanged events.

ID#400045640 : known problem since PVI3.00.00.3117, correction planned for PVI3.00.02.3005

OPC server freezes when a client creates multiple subscriptions simultaneously

If an OPC client creates multiple subscriptions on the PVI OPC server DA 3.0 simultaneously without waiting for the corresponding responses from the server, the server can become deadlocked.

ID#400039677 : known problem since PVI3.00.00.3117, correction planned for PVI3.00.02.3007

Behavior of limit alarms not completely correct on the B&R PVI OPC server DA 3.0

An active alarm will not be reset with some combinations of activated and deactivated alarms. For example, if the hi and lo alarm is deactivated within a limit alarm, then the alarm will not be reset in the area between LoLo and HiHi.

PVI Services .NET

ID#400058543 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.27 SP0x

AS crashes when monitor mode is activated

If an element or variable with the type ARRAY[0..n] OF TIME is linked to a function block input, AS crashes when monitor mode is started.

ID#400058555 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3007

BR.AN.PviServices.Value cannot be assigned directly to the System.DateTime.

If the value class is assigned directly to a System.DateTime variable, then an InvalidCastException is thrown.

Workaround:

Assign the System.DateTime variable to Value.ToDateTime().

ID#400058083 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3007

CPU object causes Error event with the error number 0 instead of the Connected event.

This behavior can be reproduced as follows:

- 1) Establish a connection with a CPU and wait for the Connected event.
 - 2) Disconnect the cable from the CPU, which triggers the error and the Disconnected event for the CPU.
(The error number is 4808)
 - 3) Reconnect the cable. Now an Error event is triggered, but there is no Connected event.
- From this point on, the order of events is incorrect.

ID#400054659 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.24 SP02

When editing structures with more than 10000 elements in the Ladder Diagram, switching to monitor mode is very slow.

If you create a project with very complex structures, as can be the case with MOTION projects, the performance of monitor mode for Ladder Diagram decreases as the size of the structure increases.

Depending on the particular hardware, structures with 10000 elements can take several minutes.

ID#400056765 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3007

Events are no longer triggered

The following events are no longer triggered:

- Task and variable collection connected event is not triggered. (not even the first time)
- Variable connected event is not triggered after restarting.

ID#400050940 : solved problem, known since V3.00.81.18, solved since V3.00.81.19 SP01

Crash in monitor mode on an SFC task when data types with an empty structure definition are used.

e.g.

```
GI_DataIN_Type : STRUCT
END_STRUCT;
```

```
GI_Type : STRUCT
Cmd : GI_Cmd_Type;
Ack : GI_Ack_Type;
Event : GI_Event_Type;
DataIN : GI_DataIN_Type;
DataOUT : GI_DataOut_Type;
END_STRUCT;
```

ID#400060390 : known problem since PVI3.00.00.3121, correction planned for PVI3.00.02.3007

The online connection cannot be changed if there is no connection with the CPU.

If a connection is made to a CPU that is not accessible (e.g.: cable unplugged), then the connection cannot be changed to another CPU.

Changing the connection only works if the initial CPU is accessible.

The programming reason for this is that, when calling BR.AN.PviServices.Cpu.ChangeConnection(), the event "ConnectionChanged" is not called if a connection to a CPU was not able to be established beforehand.

ID#400059234 : known problem since PVI3.00.00.3021, correction planned for PVI3.00.02.3108

Starting with Version 4.0.1.1, Error 12020 is triggered when connecting variables via the MODBUS line.

If PviServices is used to establish a MODBUS connection and read variables, the connection fails with PVI Error 12020.

The error states that the syntax of the variable description is not correct.

The end user can only work around this error by using an earlier version of PviServices.

ID#400041443 : known problem since PVI3.00.00.3119, correction planned for PVI3.00.02.3013

In the Connected event of a structure variable, the members are not yet initialized.

If you try to access the members of a structure variable directly in the Connected event, the members are not yet initialized.

Workaround:

Access them from outside the event and the members are initialized.

ID#400051340 : known problem since V3.00.81.18, correction planned for PVI3.00.02.3013

Memory lost when writing variables in Windows CE 6.0

Memory lost when writing variables in Windows CE 6.0

ID#400046703 : known problem since PVI3.00.00.3117, correction planned for PVI3.00.02.3013

The class BR.AN.PviServices.Value throws an exception if the constructor for an array is used with values

If the Value class for an array is initialized with values, a NullReferenceException is thrown.
The following constructs result in an exception:

Case a)
ulong[] aaa2 = new ulong[] { 22, 33, 44, 55, 66 };
Value v4 = new Value(aaa2);
Case b)
Value v = new Value(new int[] { 1, 2, 3 });

ID#400039702 : known problem since PVI3.00.00.3117, correction planned for PVI3.00.02.3013

Task collection can't be changed in a "Task Connected" event.

Creating a new task object in a "Task Connected" event causes an invalid operation exception.
Creating a new task implicitly changes the TaskCollection, thereby causing this error.

Workaround:
Don't create the task directly inside the event function.

Security Library

ID#400023802 : solved problem, known since V2.6.0.3012, solved since PVI3.00.02.3001

PVI security dongle not detected by PVI when using Windows 2003 Server x64

Tools - PVITransfer

ID#400073009 : solved problem, known since PVI3.00.02.3013, solved since PVI3.00.02.3114

"Compare" followed by IF command does not work

Using an IF command following a "Compare" command results in the IF condition not reacting correctly to the return value from the "Compare" command.

ID#400071802 : solved problem, known since PVI3.00.02.3112, solved since PVI3.00.02.3114

"Include" command doesn't work with relative paths

When executing a .pil file, relative paths are not evaluated correctly when used with an "Include" command.

ID#400069860 : solved problem, known since PVI3.00.02.3112, solved since PVI3.00.02.3114

Problems restoring CF image on BIOS devices with CFs >= 2GB

Restoring a CF image that was originally created on a smaller card (e.g. 512MB) on a larger card (>=2GB) can lead to problems under certain conditions:

- Using a BIOS device (e.g. PP400, APC620, etc.)
- CF has only one partition

The problem is that the device freezes during startup.

ID#400070663 : solved problem, known since PVI3.00.02.3012, solved since PVI3.00.02.3112

When a negative TIME variable is read, a "_" character is inserted in the result

When a TIME variable read, a "_" character is inserted in the result if the time value is negative.
Example: T#_-3h

ID#400063663 : solved problem, known since PVI3.00.02.3106, solved since PVI3.00.02.3107

CD creation: Error message with command "CFRestore"

If the command "CFRestore" is used in a PIL file, then the CD creation process is aborted with an error message. The CD will not function afterward because it is missing the respective image file (.zp2).

ID#400063228 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3107

String variables cannot be used as default values for input dialog boxes.

It is not possible to use the contents of a string variable as the default value for an input dialog box (command "InputDialog"). The contents of the string variable will be ignored and the default value provided will always be just an empty string.

ID#400063068 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3106

"CFService" command does not function

ID#400062699 : solved problem, known since V3.00.81.16, solved since PVI3.00.02.3106

Input box for command "WriteVariableUser" appears in background

The corresponding input window for the command "WriteVariableUser" only appears in the background and is therefore not easy for the user to see.

ID# 400062071, 400062540 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3106

CD creation: File "PviLog.dll" not copied

When creating a CD, the file "PviLog.dll" is not copied over. As a result, the created CD will not run on a PC without installed PVI.

ID#400057670 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3106

Not all modules added to the CF image if it is created right from the project

In certain projects, not all data (modules) will be added to the CF image (.zp2) if it is created directly from an AS project. As a result, some of the required data will be missing on the CF when restoring this image to a CF.
This problem does not occur if the CF is created directly from the corresponding AS project.

ID# 400059159, 400059487 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3105

CF creation: Size of the SYSTEM partition calculated incorrectly for an ARNC0 project

If you create a CF of a project that uses ARNC0, the size of the SYSTEM partition is calculated incorrectly.
The minimum size calculated for the SYSTEM partition is too high.

ID#400060431 : solved problem, known since PVI3.00.00.3120, solved since PVI3.00.02.3105

In Windows 7, no USB devices are listed for performing a USB remote install

When attempting to generate a USB remote install structure, in some Windows 7 systems the list of available USB devices is empty.

ID#400054444 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3105

Created CD freezes when executed in service mode

When a PIL file generated while creating a CD is executed in service mode, PVI Transfer freezes at the end of the process.

ID# 400049628, 400052330, 400062112 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3105

CF images (.zp2) can no longer be opened with older versions of PVI Transfer

With the current version, CF images can be created in either the old (.zp) or the new (.zp2) format. If a CF image is created in the old format, it can be opened with an older version of PVI Transfer.

ID# 400044321, 400049176 : solved problem, known since PVI3.00.00.3117, solved since PVI3.00.02.3105

When individual files are restored, not all files are copied to the CF card.

When the function "Restore files to Compact Flash" is used to copy individual files to the CF card, in certain constellations not all of the files are copied to the CF.

ID#400026013 : solved problem, known since V3.00.00.3013, solved since PVI3.00.02.3105

"VariableList" command doesn't terminate when connection to PLC is lost

If the connection to the PLC is lost while reading a variable list, PVI Transfer ignores this and continues the process.

Tools - PVITransfer PVITransfer 3.6.9.41

ID# 400049629, 400048097 : solved problem, known since PVI3.00.00.3120, solved since PVI3.00.02.3102

Remote install: New option for deleting only AR or application

The remote install mechanism provides a new option for deleting either AR or the application individually. This new option makes it possible to perform any type of remote update without having to format a partition.

ID#400053520 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3102

"Logger" command: Entries with the label "Info" are displayed as "Fatal"

When a logger module is converted with the command "Logger", the converted entries are displayed with an incorrect label. Entries with the label "Info" are incorrectly displayed as "Fatal".

WinNT CAN Treiber

ID#400064771 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3009

INACAN returns error 13076 for 5AC600.CANI-00

In the INF file, the StartType is 2 (SERVICE_AUTO_START). With 5AC600.CANI-00 devices, this setting can cause problems.

1A4000.02 Automation Tools**I/O Switchboard**

ID#400030828 : solved problem, known since V3.0.71.31 SP05, solved since V3.00.81.19 SP01

I/O switchboard project can't be opened again after it's closed

If an I/O switchboard project is closed, the error message "Error during loading project" is output when the project is opened.

1A4300.02 Automation Studio 3.x**AS Internals - Object Model**

ID#400066847 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.11

After axis mappings are converted from 2.x to 3.0, not all axis mappings are displayed.

After converting a project, if the axis mapping is opened "hardware oriented", then not all mappings are shown

Build

ID#400069448 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.81.30 SP0x

Memory overwritten when two local function blocks with the same name are used

Using two local function blocks with the same name and different structures results in memory being overwritten, because the wrong block description is used to calculate the memory required for an instance.

ID#400069448 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.14

Memory overwritten when two local function blocks with the same name are used

Using two local function blocks with the same name and different structures results in memory being overwritten, because the wrong block description is used to calculate the memory required for an instance.

ID#400070129 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.14

"Undefined reference" when generating C++ task

If multiple interdependent static C++ libraries are used in a project, then when you generate the task you get an error regarding undefined references.

The problem can be solved by

a) arranging the libraries in the logical view from top to bottom so that the base libraries come before the derived libraries (directory level doesn't matter).

b) entering the dependencies to other static libraries in the properties of the respective library in the logical view.
(e.g. "Inherit" Library -> Dependency on -> "Base" library).

ID#400068093 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.81.29 SP0x

Build terminates unexpectedly

With AS versions < 3.0.90, errors sometimes occur while saving symbol information during a build which can cause the next build to terminate unexpectedly.

In AS >= 3.00.90 this error has been identified and corrected. In these cases a rebuild is no longer necessary.

ID#400068093 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.12

Build terminates unexpectedly

With AS versions < 3.0.90, errors sometimes occur while saving symbol information during a build which can cause the next build to terminate unexpectedly.

In AS >= 3.00.90 this error has been identified and corrected. In these cases a rebuild is no longer necessary.

ID#400065675 : solved problem, known since V3.00.90.09, solved since V3.00.90.10

Using functions from <math.h> in a static C library causes build error with SG3/SGC

Using functions from <math.h> in a static C library causes build error with SG3/SGC

ID#400063546 400065518 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.09

Password protected data objects or tasks cannot be compiled on computers running Win7 64-bit

When compiling password protected objects, the message "Error 430: Unable to open file" is output

ID#400062823 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.09

Error(s) occurred while generating cross-reference data

The declarations from custom libraries are not found when generating the cross reference list.

ID#400060886 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.09

VAR CONSTANT of function blocks overwritten by initialization of instance variable

Constants that are declared for a function block could be overwritten by initialization of the instance variable.

ID#400051153 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.07

Error generating the header file for REAL constants < 1.0e-5

If a C/C++ library has a REAL constant with a value of 1.0e-5 or lower, then the constant is shown incorrectly in the header file.

ID#250531 : solved problem, known since V3.00.90.05, solved since V3.00.90.06

Error generating the header file for REAL constants >= 4e+15

If a C/C++ library has a REAL/LREAL constant with a value of 4e+15 or higher, then the constant is shown incorrectly in the header file.

ID#244595 : solved problem, known since V3.00.90.03, solved since V3.00.90.04

Static hybrid libraries can't be generated in projects that have a space in the path.

If static libraries are exported as hybrid libraries (sources of individual .c/.cpp files are excluded from the export), then using them in projects that have a space in their path results in an error during generation.

C:/Program Files/BrAutomation/AS30081/As/Gnulnst/V4.1.2/bin/i386-elf-ar.exe : Error : <Path>/<File name>.o: No such file or directory

ID#244585 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.23 SP0x

Static hybrid libraries can't be generated in projects that have a space in the path.

If static libraries are exported as hybrid libraries (sources of individual .c/.cpp files are excluded from the export), then using them in projects that have a space in their path results in an error during generation.

C:/Program Files/BrAutomation/AS30081/As/Gnulnst/V4.1.2/bin/i386-elf-ar.exe :
Error : <Path>/<File name>.o: No such file or directory

ID#400055093 : solved problem, known since V3.00.80.33 SP02, solved since V3.00.90.04

Undeclared structure element is not detected as an error.

If an undeclared structure element is addressed for a structure variable, (e.g. struVar.unknown = 1), the compiler doesn't detect this as an error and only outputs a warning.

ID#400051553 : solved problem, known since V3.00.81.19 SP01, solved since V3.00.90.05

Changing constants in ANSI C libraries results in the respective program not being generated

If the value of a constant in an ANSI C library is changed, the respective program won't be generated during the next build.

ID#234606 : solved problem, known since V3.00.81.09 (FR000488), solved since V3.00.90.14

New reserved names

With AS V3.0.90 and higher, the names BYTE, WORD, DWORD, DATE, TIME_OF_DAY, TOD, WSTRING are provided by the system as data types, and can therefore not be assigned by the user.

ID#400046363 : solved problem, known since V3.00.80.29 SP01, solved since V3.00.90.07

Declaration of arrays with sizeof incorrect

If a variable declaration is made in ANCI C and the sizeof operator is used, then the incorrect length is set for a PLC variable declared with this type.

```
typedef BOOL Option_fun[sizeof(option_store_typ)];
```

```
_GLOBAL option_store_typ OPT[S__MAX_OPTION_NUMBER];  
_LOCAL Option_fun OptBitX;
```

Problem can be worked around by using literals or constants for the array length, e.g.

```
typedef BOOL Option_fun[16];
```

ID#400037337 : solved problem, known since V3.0.71.34 SP06, solved since V3.00.90.02

Error "error 9234: Error creating make" if the active configuration contains invalid .br modules

If the active configuration contains invalid .br modules (AsHwd.br, AsFw.br, ArConfig.br und IoMap.br), then an unclear error message "error 9234: Error creating make" is output.

The affected modules are therefore invalid because they are automatically transferred for each configuration,

In the future, error message "Error 9222: Software object <object name> is already defined through configuration file or data object <object path>\<object name>" will be output.

Build - Backend

ID#400048512 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.07

It is not possible to use C variables larger than 16 MB.

If variables larger than 16 MB are declared in C programs, Error 4522 will be generated when the project is built.

Build - C Compiler GCC 2.95.3

ID#400058095 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.25 SP0x

Changing a header file doesn't cause library to be generated

Changing a header file in a library doesn't result in the library being regenerated during a build or transfer.

Build - ConfigurationBuilder

ID#400071495 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.15

Build error "Required white space was missing" when using regional and language settings for China

Using the regional and language settings for China may result in the build error "Required white space was missing." depending on the hardware used.

ID#400063018 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

MN cannot register data points on the iCN

A Managed Node cannot register its data points on the iCN due to a missing entry for safety channels on the iCN (although the entry is present on the MN).

ID#400063018 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.27 SP0x

Managed Node cannot register data points on the iCN

Managed Node cannot register its data points on the iCN due to a missing entry for safety channels on the iCN.

ID#400060785 : solved problem, known since , solved since V3.00.90.11

Cross-communication on the SL's BOOL channels is not recognized as an error.

Cross-communication is not permitted on the SL's BOOL channels, but if it is configured, Automation Studio doesn't recognize this as an error.

ID#400072324 : known problem since V3.00.81.27 SP0x, correction planned for V3.00.81.30 SP0x

NodeSwitch channel of CAN interfaces with disabled CAN I/O

The current value of the NodeSwitch channel of CAN interfaces on SG4 target systems is not displayed in the variable monitor or in monitor mode of the I/O mapping if CAN I/O communication is disabled.

ID#400072324 : known problem since V3.00.81.27 SP0x, correction planned for V3.00.90.19 SP0x

NodeSwitch channel of CAN interfaces with disabled CAN I/O

The current value of the NodeSwitch channel of CAN interfaces on SG4 target systems is not displayed in the variable monitor or in monitor mode of the I/O mapping if CAN I/O communication is disabled.

ID#400056193 : known problem since V3.00.81.18, correction planned for V3.00.90.07

Projects with hardware modules that contain μ in their channel descriptions can not be build in the Chinese version of Windows.

The following error is generated when building projects that contain μ in the channel descriptions:
Required white space was missing.

Error: on line 79, position 219 in "(null)".

ID#400054385 : known problem since V3.00.80.30 SP01, correction planned for V3.00.90

FW1.1.14.2 of the LS 182.6-1 tends to invalid Datapoints

Build - IECCompiler

ID#400064208 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.28 SP0x

CheckDiv functions in the IEC Check library are called for MOD operators

The build option -D _MODULO_CHECK_OFF can be used to prevent calling the respective CheckDivXXX function from the IEC Check library when the MOD operator is used.

The command line option is documented on the Help page for the IEC Check library.

The result of an unmonitored MOD 0 operation is 0.

ID#400066787 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.81.28 SP0x

EDGE, EDGENEG, EDGEPOS cause Error 1179

Using one of the operators EDGE, EDGENEG or EDGEPOS in a program causes "Error 1179: EDGENEG variable not found", if an error occurred while building a function block before building the program.

ID# 400067530, 400067286 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.28 SP0x

Endless loop when using advanced MOV blocks

Using advanced MOV blocks can lead to endless loops during a build.

ID#400067530 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

Endless loop when using advanced MOV blocks

Using advanced MOV blocks can lead to endless loops during a build.

ID#400066294 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.81.28 SP0x

Incorrect code generation when accessing dynamic VAR_Input variables in a block's actions.

If an action is run in a function block, and that action accesses a dynamic VAR_INPUT variable in the function block, then incorrect code is generated. When the variable is accessed, the dynamic variable is not dereferenced.

ID#400066294 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.11

Incorrect code generation when accessing dynamic VAR_Input variables in a block's actions.

If an action is run in a function block, and that action accesses a dynamic VAR_INPUT variable in the function block, then incorrect code is generated. When the variable is accessed, the dynamic variable is not dereferenced.

ID#400064561 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.27 SP0x

The required size of the memory area zzInternalMemory sometimes calculated incorrectly.

Depending on the alignment, the size of zzInternalMemory is sometimes calculated incorrectly.

ID#258775 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.81.27 SP0x

Projects with function blocks implemented in SFC can't be built.

These projects result in build error "Error 1225: Missing BOOL input variable 'SFCInit' or 'SFCReset' to initialize function block."

ID#400064561 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

The required size of the memory area zzInternalMemory sometimes calculated incorrectly.

Depending on the alignment, the size of zzInternalMemory is sometimes calculated incorrectly.

ID#400065482 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.10

Casting REAL or LREAL to whole number data type doesn't shorten to specified data width

When casting, the calculated result is increased or decreased to the specified data width.
dint_result = INT (40 * 1000); => -25536

When casting from REAL or LREAL to a whole number data type, the result is not shortened to the specified data width.
dint_result = INT (40.0 * 1000); => 40000

ID#400065147 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.27 SP0x

Warning 1289: Missing BOOL variable 'SFCInit' to initialize action

If an SFC action programmed in SFC is opened, it looks for one of the SFC system variables SFCInit or SFCReset. If they are not found, the SFC can't be initialized correctly and the warning is generated.

If the SFC action is not opened from an SFC program or an SFC function block, but instead from a ST program, then the SFC system variables are not found and a warning is generated.

ID#400065147 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

Warning 1289: Missing BOOL variable 'SFCInit' to initialize action

If an SFC action programmed in SFC is opened, it looks for one of the SFC system variables SFCInit or SFCReset. If they are not found, the SFC can't be initialized correctly and the warning is generated.

If the SFC action is not opened from an SFC program or an SFC function block, but instead from a ST program, then the SFC system variables are not found and a warning is generated.

ID#400064208 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

CheckDiv functions in the IEC Check library are called for MOD operators

The build option -D _MODULO_CHECK_OFF can be used to prevent calling the respective CheckDivXXX function from the IEC Check library when the MOD operator is used.

The command line option is documented on the Help page for the IEC Check library.

The result of an unmonitored MOD 0 operation is 0.

ID#400054562 : solved problem, known since V3.00.90.03, solved since V3.00.90.04

Malfunction of CheckBounds

If a function block receives a reference to an array and the lower or upper limit of the index range is a constant, then the value of the constant is incorrectly interpreted as 0. In order for the error to be corrected, the respective project must be recompiled.

ID#400054562 : solved problem, known since V3.00.81.20 SP01, solved since V3.00.81.22 SP01

Malfunction of CheckBounds

If a function block receives a reference to an array and the lower or upper limit of the index range is a constant, then the value of the constant is incorrectly interpreted as 0. In order for the error to be corrected, the respective project must be recompiled.

ID#400051211 : solved problem, known since V3.00.71.34 SP06, solved since V3.00.81.19 SP01

Networks with multiple ENO outputs linked by OR operators to an EN input can't be compiled in some cases

ID# 400050529, 400058357 : solved problem, known since V3.00.81.18, solved since V3.00.81.19 SP01

Identical B&R Automation Basic code returns different results

Due to a code generation error for B&R Automation Basic, an expression in which more than two operators are compared incorrectly returns the value "true" if all the operators have the same value.

```
if (false = true AND false = false) then (* testvar1 incorrectly gets the value 1 *)
testvar1 = 1;
else
testvar1 = 0;
endif
```

```
if (false = true AND false = false) then (* testvar2 correctly gets the value 0 *)
testvar2 = 1;
else
testvar2 = 0;
endif
```

The correct result after the error correction is explained below:

In Automation Basic the AND operator has higher priority than the relational operator. So, the expression "false = true and false = false" is interpreted as shown by the parentheses "false = (true and false) = false". Since in Automation Basic operators with equal priority are evaluated from left to right, the expression can be further clarified by placing the left relational operation in parentheses (false = (true and false)) = false.

When the expression is evaluated step by step, the result is "false":
"(false = (true and false)) = false" results in "(false = false) = false" which results in "true = false" which results in "false"

ID#400073915 : known problem since V3.00.81.27 SP0x, correction planned for V3.00.81.31 SP0x

Incorrect code generation when mapping an expression to a bit

If an expression that contains an equation is mapped to a bit, the generated code is incorrect. The faulty calculation only occurs when variables with a data width larger than 1 byte are used.

ID#400073915 : known problem since V3.00.81.27 SP0x, correction planned for V3.00.90.19 SP0x

Incorrect code generation when mapping an expression to a bit

If an expression that contains an equation is mapped to a bit, the generated code is incorrect. The faulty calculation only occurs when variables with a data width larger than 1 byte are used.

Build - OPC

ID#400061893 : solved problem, known since V3.00.90.05, solved since V3.00.81.26 SP0x

OPC server - continuous RAM consumption

Each time a value changes on an item, the OPC server consumes an additional 30MB of RAM

ID#400061893 : solved problem, known since V3.00.90.05, solved since V3.00.90.09

OPC server - continuous RAM consumption

Each time a value changes on an item, the OPC server consumes an additional 30MB of RAM

ID#400056018 : solved problem, known since V3.00.81.19 SP01, solved since V3.00.90.08

Error message when an OPC tag isn't assigned to a variable

If an OPC tag is not assigned a variable (either in the tag editor or in a mapping editor), a warning is generated during a build instead of an error message.

Build - Taskbuilder

ID#400067024 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.28 SP0x

Initializing function block arrays causes build error 6024.

Initializing functions block arrays causes Error 6024 when built.

Example:

```
ton_arr : ARRAY[0..1] OF TON := [(IN:=FALSE)];
```

ID#400067024 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

Initializing function block arrays causes build error 6024.

Initializing functions block arrays causes Error 6024 when built.

Example:

```
ton_arr : ARRAY[0..1] OF TON := [(IN:=FALSE)];
```

ID#400055637 : solved problem, known since V3.00.90.05, solved since V3.00.90.06

Variable displayed with the wrong type.

Adding to a structure causes a variable to be shown with the wrong type.

Reason: Overflow of internal data structures.

In the future the error

<Taskname>:Error: 6473:Offset in information section for data types exceeds limit will be generated.

ID# 400059705, 400060245 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.06

Incorrect offsets sometimes generated for global variables

In projects with the following characteristics

- * Project contains ANSI-C tasks
 - * multiple tasks, at least one ANSI-C task, use the same global variables
 - * these variables have the type user data type (structure) or enumerator
 - * the data types are used in ANSI-C via variables using _GLOBAL
- the incorrect variable offsets may be assigned for global variables.

To fix this issue in affected projects, perform a Clean and a Rebuild All.

ID# 400059705, 400060245 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.81.25 SP0x

Incorrect offsets sometimes generated for global variables

In projects with the following characteristics

- * Project contains ANSI-C tasks
 - * multiple tasks, at least one ANSI-C task, use the same global variables
 - * these variables have the type user data type (structure) or enumerator
 - * the data types are used in ANSI-C via variables using _GLOBAL
- the incorrect variable offsets may be assigned for global variables.

To fix this issue in affected projects, perform a Clean and a Rebuild All.

ID#245320 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.23 SP0x

Build doesn't detect changed constant

If a globally declared constant

```
VAR CONSTANT
```

```
gconst1 :
```

```
USINT := 12;
```

```
END_VAR
```

is used in a local type declaration of a program

```
TYPE
```

```
task1Type1 :
```

```
STRUCT
```

```
ele1 : gType1;
```

```
ele2 : lib5Fub1;
```

```
ele3 :
```

```
ARRAY[0..gconst1] OF USINT;
```

```
END_STRUCT;
```

```
END_TYPE
```

then changing the constant doesn't causes the respective program to be rebuilt.

ID#244671 : solved problem, known since V3.00.90.03, solved since V3.00.90.04

Build doesn't detect changed constant

```

If a globally declared constant
VAR CONSTANT
gconst1 :
USINT := 12;
END_VAR

```

```

is used in a local type declaration of a program
TYPE
task1Type1 :
STRUCT
ele1 : gType1;
ele2 : lib5Fub1;
ele3 :
ARRAY[0..gconst1] OF USINT;
END_STRUCT;
END_TYPE

```

then changing the constant doesn't causes the respective program to be rebuilt.

ID#400055457 : solved problem, known since V3.00.80.33 SP02, solved since V3.00.81.23 SP0x

Changing the prototyping of the function block doesn't cause the task to be recompiled

Changing the prototyping of the function block doesn't cause the task to be recompiled if only the block's instance variable and not the block itself is called in the respective program.
This can cause the application to malfunction or the CPU to crash.

ID#400055457 : solved problem, known since V3.00.80.33 SP02, solved since V3.00.90.04

Changing the prototyping of the function block doesn't cause the task to be recompiled

Changing the prototyping of the function block doesn't cause the task to be recompiled if only the block's instance variable and not the block itself is called in the respective program. This can cause the application to malfunction or the CPU to crash.

ID#400053842 : solved problem, known since V3.00.81.18, solved since V3.00.81.21 SP01

BR.AS.TaskBuilder.exe crashes when function blocks call each other recursively

When function blocks call each other recursively (A calls B, B calls A), BR.AS.TaskBuilder.exe crashes during a build.

ID#400051162 : solved problem, known since V3.00.81.18, solved since V3.00.81.20 SP01

Error 6009: Internal: Writing/calculating init entry, variable RootPV

When structures are declared whose size exceeds 64 MB, the following error is generated during a build "Error 6009: Internal: Writing/calculating init entry, variable RootPV".
The problem can be avoided by initializing the structure variable with 0.
e.g.
_GLOBAL struct TestRoot RootPV _VAR_INIT(0);

Build - Transfer To Target

ID#261315 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.81.28 SP0x

After the range limits of global array variables are changed, the new ranges aren't initialized

In "Copy" downloading mode, when the range limits of global array variables are changed (e.g. from [-2..2] to [0..4]) the array elements are not initialized.

ID#261036 : solved problem, known since V3.00.90.10, solved since V3.00.90.11

After the range limits of global array variables are changed, the new ranges aren't initialized

In "Copy" downloading mode, when the range limits of global array variables are changed (e.g. from [-2..2] to [0..4]) the array elements are not initialized.

ID#400065008 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

For arrays with only one element, the software mismatch dialog box always detects a change.

ID#400062152 : solved problem, known since V3.00.81.24 SP0x, solved since ARSG4_3.07.3_C03.07

Status indication of tasks (RUN, IDLE, etc.) read incorrectly due to synchronization problems in Automation Studio - display problem

ID#225956 : known problem since V3.00.80.28 (FR000531), correction planned for V3.00.90

Changing a PV or structure type member from value type to reference is not detected reliably in CopyMode.

If you change an existing PV from value type to reference or back, this change is not detected correctly by AS in CopyMode.
As a result, there is no (correct) user information regarding the pending initialization.

Diagnostics - Debugger

ID#400062774 : solved problem, known since V3.00.81.18, solved since V3.00.90.10

Didn't stop at breakpoints when CPU had insufficient RAM

During debugging, the required information is copied from the UserROM to the UserRAM. Depending on the hardware and the project structure the CPU may have insufficient RAM. When this was the case the debugger didn't stop at breakpoints in some tasks.

Now an error message is generated indicating this problem if there is insufficient RAM. To solve this problem for programs that don't need to be debugged, you can uncheck the "Debugging" checkbox in the software configuration under Properties / Compiler.

ID#400050702 : solved problem, known since V3.00.81.15, solved since V3.00.81.19 SP01

Setting breakpoints by double-clicking in the editor gutter

When attempting to set a breakpoint by double-clicking in the editor gutter (left border), the breakpoint is set farther down and not in the correct line.

ID#400027683 : solved problem, known since V3.0.71.31 SP05, solved since V3.00.90.10

Debugger doesn't work via routed POWERLINK connection

Diagnostics - Logger

ID#400065517 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.12

Saved logger records could not be opened if the backtrace contained special characters.

If a logger record was saved with a backtrace that contained special characters, the file could no longer be opened in the Automation Studio Logger.

The error message "The file [filename] could not be loaded." was generated.

After this correction it is now possible to open these files.

ID#400059910 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.07

The "Modules" window in the logger was not hidden automatically

When the focus is inside the "Modules" window, it is not automatically hidden when the mouse is moved away from it. This error has been corrected.

ID#244250 : solved problem, known since V3.00.90.03, solved since V3.00.90.04

After performing "Clear Data", the logger data is deleted, but not refreshed

You have to close and reopen the logger in order to refresh the data.

ID#243065 : solved problem, known since V3.00.80.33 SP02, solved since V3.00.81.23 SP0x

After performing "Clear Data", the logger data is deleted, but not refreshed

You have to close and reopen the logger in order to refresh the data.

ID#40009868 : solved problem, known since V3.0.71.16 SP01, solved since V3.00.90.02

Sorting order cleared when a new entry appears in the logger or when the logger is reopened.

When entries in the logger are sorted by time and a new logger entry is added, the chronological order is lost.

When entries in the logger are sorted by time and the logger is closed and reopened, the previous sorting order is lost.

Diagnostics - Motion - NC Test

ID#400063869 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

"Window -> Close All" only closes NC Test window

When multiple windows are open and one of them is an NC Test window with an active online connection, then "Window -> Close All" only closes the NC Test window.

ID#400054338 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.05

NC Test can't be opened

NC Test can't be opened for axes that have the same name as the project.

Diagnostics - Motion - NC Trace

ID#400072054 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.14

CNC Trace: Some NC object names in the NC Trace data points are incorrect

When a CNC trace was loaded, some of the NC object names in the NC Trace data points were switched, and some of the names were cryptic.

ID#400056878 : solved problem, known since V3.00.81.18, solved since V3.00.90.09

Wrong title when tracing multiple axes

When multiple axes are traced, the title of the first axis is always displayed. This causes axis labels to have the same name, and only the first diagram is shown.
The problem only occurs with ARNC0.

ID# 400058413, 400059749 : solved problem, known since V3.00.81.19 SP01, solved since V3.00.90.07

Network Command Trace shortcut menu displayed incorrectly

When the shortcut menu is opened in the Network Command Trace table, the context menu of the header appears.

ID# 400046834, 400050679, 400055914, 400053351 : solved problem, known since V3.00.80.28 SP01, solved since V3.00.90.07

Additional information isn't displayed in Windows 7 and Windows Vista

When using Windows 7 or Windows Vista, the additional information is not displayed in the Network Command Trace.

ID#400058791 : new function since V3.00.90.07

The measurement cursor is displayed by default.

The measurement cursor is displayed as soon as the trace is opened

ID#400072054 : known problem since V3.00.81.24 SP0x, correction planned for V3.00.81.31 SP0x

CNC Trace: Some NC object names in the NC Trace data points are incorrect

When a CNC trace was loaded, some of the NC object names in the NC Trace data points were switched, and some of the names were cryptic.

Diagnostics - Profiler

ID#400051044 : solved problem, known since V3.00.81.18, solved since V3.00.81.19 SP01

In the Profiler, tasks are suddenly shown as "UnknownCyclicTask" after being downloaded

If tasks are re-transferred after being edited, they are not shown if the parameter "Buffer for created task" equals 0.

ID#400032355 : new function since V3.00.90.10

Setting for the maximum number of profiler archive modules

The maximum number of archive modules can now be set in the profiler configuration. Once the configured maximum number of archive modules for the controller has been reached on the controller, the oldest one is automatically deleted before creating a new one.

Diagnostics - Trace

ID#400058178 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.26 SP0x

Arrays with a start index <> 0 cause problems in the variable selection window for the variable trace.

Starting with this version of Automation Studio, arrays with a start index <> 0 can be selected as expected in the variable selection window.

ID#400058178 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.07

Arrays with a start index <> 0 cause problems in the variable selection window for the variable trace.

Starting with this version of Automation Studio, arrays with a start index <> 0 can be selected as expected in the variable selection window.

Diagnostics - Watch

ID#400066230 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.28 SP0x

Some values of enum variables don't show up in AS Watch.

In certain cases (enum types written a certain way as a member of a structure type) the value of the variable is shown incorrectly or not at all in the Watch.
This has been corrected.

ID#400066151 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

In the Variable Watch, the list of inserted variables is lost

If the init subprogram and the cyclic section of a program were implemented in different files and both files were opened in monitor mode and variables were inserted in the Watch window, then under certain circumstances after monitor mode was turned off and back on the list of inserted variables was no longer shown in the Watch window. The variables then had to be inserted again manually.

After this correction, turning monitor mode off and back on does not affect the list of variables in the Watch window.

ID# 400066230, 400068267 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

Some values of enum variables don't show up in AS Watch.

In certain cases (enum types written a certain way as a member of a structure type) the value of the variable is shown incorrectly or not at all in the Watch.
This has been corrected.

ID#400057519 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.10

Variables can no longer be dragged into the Watch window.

If the "Watch" view of the text editor is disabled and the text editor is closed and reopened, it was no longer possible to insert variables in the Watch view. Dragging and dropping variables into the Watch window didn't insert them.
It was no longer possible to enable the "Watch" view.

After this correction, the "Watch" view can once again be opened from the main menu after it has been closed.

ID#400052334 : solved problem, known since V3.00.81.18, solved since V3.00.90.10

Variables can no longer be dragged into the Watch window.

If the "Watch" view of the text editor is disabled and the text editor is closed and reopened, it was no longer possible to insert variables in the Watch view. Dragging and dropping variables into the Watch window didn't insert them.
It was no longer possible to enable the "Watch" view.

After this correction, the "Watch" view can once again be opened from the main menu after it has been closed.

ID# 400045196, 400045567 : solved problem, known since V3.00.80.29 SP01, solved since V3.00.90.08

In the Watch window, sometimes only the numeric values of enumeration data types were shown.

Using an enumerated data type (Enum) that contains a large number of enumerators for a PV caused the PV to be displayed incorrectly in the Watch. "Large" values for PVs (project dependent) caused only the numerical value and not the name of the enumeration to be displayed in the Watch window. As a result, the value of this PV couldn't be set in the Watch window.

Error has been corrected.

ID#400042819 : solved problem, known since V3.00.80.25, solved since V3.00.90.08

Correction in Watch: Structure elements not inserted correctly with certain selections

In the Insert dialog of the Watch, if both a simple data type and individual elements of a structured data type were selected, these elements were sometimes not correctly inserted in the Watch. The items were inserted individually but at the highest level instead of being grouped under a common node for the structure.
The selected items are now displayed at the correct level.

ID#400006757 : solved problem, known since ARSG4_2.94.22_V02.94, solved since V3.00.90.12

Problems displaying variable values in the PV Watch window after using the library function DatObjMove

There were display problems in the Watch window when Automation Studio was connected to a target on which a task was running the library function "DatObjMove" cyclically with the PV Watch window open.
Variable values were no longer refreshed and it was sometimes not possible to insert any more PVs.

This error has been corrected.

IO Configuration - CANopen

ID#400068843 : solved problem, known since V3.00.81.28 SP0x, solved since V3.00.81.29 SP0x

Error with COB-ID calculation

If the COB-ID of a PDO has for example the value \$NODEID+0x40000200 than the COB ID calculated from the AS is wrongly entered in the arconfig.

ID#400056381 : solved problem, known since V3.00.81.25 SP0x, solved since V3.00.81.25 SP0x

Priority of CANopen master can be configured

The user can configure the priority of the CANopen master in order to adjust the system load for a particular application.

ID#400056569 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.25 SP0x

Bit 30 of a COB-ID was not properly handled by the CAN configuration editor

Regarding to DS301 specification bit 30 of a COB-ID shall be ignored. The CAN configuration editor treated this bit as a part of the COB-ID.
This resulted in multiple occurrences of a COB-ID.

ID#400056381 : solved problem, known since V3.00.90.04, solved since V3.00.90.06

Priority of CANopen master can be configured

The user can configure the priority of the CANopen master in order to adjust the system load for a particular application.

ID#400056569 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.06

Bit 30 of a COB-ID was not properly handled by the CAN configuration editor

Regarding to DS301 specification bit 30 of a COB-ID shall be ignored. The CAN configuration editor treated this bit as a part of the COB-ID. This resulted in multiple occurrences of a COB-ID.

IO Configuration - DTM

ID#400072895 : solved problem, known since V3.00.90.15, solved since V3.00.90.17

Festo Profinet device can not be inserted

ID#400070573 : solved problem, known since V3.00.90.12, solved since V3.00.90.14

CANopen Master DTM checks whether default values are defined in the EDS files for the COB-ID. If not, it tries to define default values that conform to the standards.

ID#400060207 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.81.26 SP0x

Export device description is not supported

GSD files cannot be exported using the current DTM Library

IO Configuration - Modbus TCP

ID# 400021642, 400022422, 400036543 : solved problem, known since V3.0.71.27 SP04, solved since V3.00.81.25 SP0x

Modbus TCP configuration has errors after upgrading AS

If an existing project is upgraded to Version 3.0.71.27 SP04 (or higher), there are errors in the Modbus TCP configuration for all blocks with writing functions (e.g. write multiple coils). For these blocks, the number of channels and the start address are incorrect.

IO Configuration - Profibus

ID#400064590 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.27 SP0x

Invalid linefeed characters resulted in invalid import

Profibus device description files with invalid linefeed characters (0x0D, 0x0D, 0x0A sequence) resulted in invalid import. These linefeeds are now treated in a special manner.

ID#400064590 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

Invalid linefeed characters resulted in invalid import

Profibus device description files with invalid linefeed characters (0x0D, 0x0D, 0x0A sequence) resulted in invalid import. These linefeeds are now treated in a special manner.

ID#400058710 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.08

The I/O mapping does not support strings

String is not longer provided as data type for a Profibus channel because it is not supported by the I/O mapping. For existing projects the concerned device has to be reimported to fix the issue.

ID#400053732 : solved problem, known since V3.00.90.04, solved since V3.00.90.06

Priority of Profibus master can be configured

The user can configure the priority of the Profibus master in order to adjust the system load for a particular application.

Motion Components

ID#400062212 : solved problem, known since unbekannt, solved since V3.00.90.09

Not able to select insert cards correctly from the wizard in 8AC14xxx projects

If an ACOPOS was added to the CAN interface of a 8AC14xxx CPU, then only the insert card of the third slot was able to be selected from the insert wizard. Slots one and two were only able to be added in the hardware tree afterward.

Online Services

ID#400054118 : solved problem, known since V3.00.90.03, solved since V3.00.90.06

With an existing online connection, fixed node numbers are detected incorrectly

For X2X configurations, fixed node numbers are entered, although the respective hardware modules don't have fixed node numbers configured.

ID#400050693 : solved problem, known since V3.00.81.18, solved since V3.00.90.09

Online connection incorrectly established after local interruption

If the PVI communication instance is terminated due to excessive load (Communication Timeout COMT) and the connection is then re-established, then the CPU object will be connected with the communication parameter CD="CPU" instead of the correct parameter.

ID#400050701 : solved problem, known since V3.00.81.18, solved since V3.00.81.19 SP01

Setting of 3 seconds for ConnectionTimeOut too small

The ConnectionTimeOut value has been increased to 300 seconds.

Online Settings Dialog

ID#400057092 : solved problem, known since V3.00.81.18, solved since V3.00.90.05

Crash when parameters are entered in extra device settings without separator

If the parameters are entered in the "Extra device settings" column without a space separating them (e.g. "/RS=0/RS=0"), then Automation Studio will crash when the online settings are saved.

ID#400057092 : solved problem, known since V3.00.81.18, solved since V3.00.81.23 SP0x

Crash when parameters are entered in extra device settings without separator

If the parameters are entered in the "Extra device settings" column without a space separating them (e.g. "/RS=0/RS=0"), then Automation Studio will crash when the online settings are saved.

ID#400056008 : solved problem, known since V3.00.81.18, solved since V3.00.90.04

Modem description string with single quote doesn't work

If a modem description string contains a single quotation mark, the string will not be forwarded properly.

ID#400056008 : solved problem, known since V3.00.81.18, solved since V3.00.81.23 SP0x

Modem description string with single quote doesn't work

If a modem description string contains a single quotation mark, the string will not be forwarded properly.

Programming - ANSI C

ID#400054197 : solved problem, known since V3.00.81.18, solved since V3.00.90.12

LineCoverage not working with high task class cycle times

If line coverage is activated for a task with a high cycle time ($\geq 1000\text{ms}$), then the error message "Error 6575: Unknown target error = 6575" is displayed.

Programming - ANSI C++

ID#400056892 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.06

C++: Failed allocation of bur_heap_size memory gives no Warning/Error

ID#400055860 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.04

Error "illegal option -- O" when generating static C/C++ library

This error message may appear when generating C/C++ libraries if the command line for i386-elf-ar.exe is larger than 2048 bytes. The error can be avoided by using shorter paths for projects (configuration name, name of the temp directory) shorter .cpp file names and a lower number of .cpp file names in each library.

ID#400055860 : solved problem, known since V3.00.81.18, solved since V3.00.81.24 SP0x

Error "illegal option -- O" when generating static C/C++ library

This error message may appear when generating C/C++ libraries if the command line for i386-elf-ar.exe is larger than 2048 bytes. The error can be avoided by using shorter paths for projects (configuration name, name of the temp directory) shorter .cpp file names and a lower number of .cpp file names in each library.

ID#224820 : new function since V3.00.90.10

In the source files of static C/C++ libraries, breakpoint positions are not shown.

When debugging programs that with statically linked C/C++ libraries, no breakpoints are shown in the library source code.

Programming - Automation Basic

ID#400071333 : solved problem, known since V3.00.90.11, solved since V3.00.90.14

Autocomplete error with local function blocks

Autocomplete doesn't work for structured elements of a local function block.

ID#400064495 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.27 SP0x

VAR_IN_OUT parameters added in the wrong order

If a user function block containing a VAR_IN_OUT parameter is added using the "Insert Function block" option, then its parameters will be shown in the wrong order.

ID#400064495 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

VAR_IN_OUT parameters added in the wrong order

If a user function block containing a VAR_IN_OUT parameter is added using the "Insert Function block" option, then its parameters will be shown in the wrong order.

ID#400057426 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

Go to corresponding delimiter doesn't work if the instruction block contains ";" comments

For instruction blocks such as
 if ((var1 = 1) and (Var2 = 2)) then ;test
 var3 = 3
 endif
 "Go to matching delimiter" doesn't work.

ID#400050541 : solved problem, known since V3.00.81.18, solved since V3.00.81.19 SP01

"Next Bookmark" deletes selected text

If text is selected and copied with Ctrl+C, subsequently using "Next Bookmark" to jump to a bookmark deletes the selected text.

Programming - Cross Reference

ID#400066226 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

List Usage doesn't work for variables with the type ARRAY OF Structure

ID#400062521 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.08

Error message when double-clicking on cross references from the SFC program

An error message is generated if the editor for a SFC source file is opened the first time by double-clicking on a cross reference.

Programming - Data Type Declaration Table Editor

ID#400061731 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.07

Poor system response times depending on the quality of the connection to the file server or VCS server

The table editor checks the file status each time a change is made (ReadOnly etc.).
 This causes poor response times when editing, depending on the quality of the connection to the server.

Programming - FBD

ID#400071811 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.81.30 SP0x

Incorrect handling of empty block connections in monitor mode

If a value is entered for empty block connections in monitor mode, then this value is always written to the last element of the block instance variable.
 Entering a value for empty block connections is therefore no longer permitted.

ID#400062333 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.12

Crash when inserting blocks with a parameter type labeled as "FUNCTION" or "FUNCTION_BLOCK".

A block that contains parameters with the type name "FUNCTION" or "FUNCTION_BLOCK" can cause a crash when inserted.
 From now on, using the type name "FUNCTION" or "FUNCTION_BLOCK" will cause an error message.

ID#400060330 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.09

Variable values only shown in monitor mode after scrolling.

ID#400047764 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.12

Vertical scroll bar disappears after "append column"

ID#400071811 : known problem since V3.00.81.27 SP0x, correction planned for V3.00.90.19 SP0x

Incorrect handling of empty block connections in monitor mode

If a value is entered for empty block connections in monitor mode, then this value is always written to the last element of the block instance variable.
 Entering a value for empty block connections is therefore no longer permitted.

Programming - Function Table Editor

ID#400053413 : solved problem, known since V3.00.81.18, solved since V3.00.90.10

Error 1144 during build due to changed transfer parameters in the *.fun file

If the scope of a function block parameter is changed, then the sequence of the parameters will be changed under certain circumstances because the sequence is determined by the scope (VAR_INPUT, VAR_OUTPUT, VAR_INOUT, VAR).
In this case, the parameter sequence must also be adjusted when called up.

In order to illustrate this, the new sequence will now be displayed automatically and immediately after saving the declaration file.

Programming - IO Mapping Table Editor

ID#400063292 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

Input channels that are mapped multiple times are not saved in the order shown.

A different order is shown after opening the editor again.

ID#400055024 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.06

Changing the node number of I/O modules results in incorrect mapping.

Moving I/O modules, e.g. an X20 CPU on the X2X bus can result in incorrect entries in the I/O mapping or in the physical view

ID#400055024 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.81.25 SP0x

Changing the node number of I/O modules results in incorrect mapping.

Moving I/O modules, e.g. an X20 CPU on the X2X bus can result in incorrect entries in the I/O mapping or in the physical view

ID#243470 : solved problem, known since V3.00.80.33 SP02, solved since V3.00.90.04

Malfunction in Select Variable window for making I/O assignments

The setting "Only not connected" is sometimes evaluated incorrectly.

ID#243455 : solved problem, known since V3.00.80.33 SP02, solved since V3.00.90.04

Array elements are shown multiple times

In the select variable window for making I/O assignments, array elements are sometimes listed twice.

ID#153671 : solved problem, known since V3.00.80.10, solved since V3.00.90.07

Forced variables not shown as forced after connection is interrupted

When the connection is lost on SG3 target systems, forced I/O variables are no longer identified as such.

Programming - LD

ID#400069458 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.81.30 SP0x

Incorrect code generated when a block instance with EN/ENO is used multiple times

If one instance of a block with EN/ENO connections is used multiple times in a Ladder Diagram, the code generated is incorrect.

ID#400069458 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.14

Incorrect code generated when a block instance with EN/ENO is used multiple times

If one instance of a block with EN/ENO connections is used multiple times in a Ladder Diagram, the code generated is incorrect.

ID#262205 : solved problem, known since V3.00.90.11, solved since V3.00.81.29 SP0x

Using MOV block with correct syntax causes build error.

If a MOVE block with EN/ENO and multiple inputs/outputs, any attempt to build will result in
Error 1140: Data type mismatch: Cannot convert BOOL to ...

ID#400066267 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.29 SP0x

MOV block generates output even though EN = FALSE

ID#400067398 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.81.29 SP0x

Different values displayed in the Ladder Diagram monitor and in the PV watch

In some cases, the Ladder Diagram monitor and the PV watch show different values for the same variable.

ID#252645 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.26 SP0x

Incorrect code generation for "stretched" MOV blocks

If the input and output of a MOV block are not on the same line due to a preceding block, the generated code will be incorrect.

ID#252644 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.07

Incorrect code generation for "stretched" MOV blocks

If the input and output of a MOV block are not on the same line due to a preceding block, the generated code will be incorrect.

ID#400060636 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.81.25 SP0x

Incorrect code is sometimes generated for complex networks.

Complex links can result in incorrect or incomplete code (some paths are ignored), and as a result, output contacts can't be set or reset.

ID#400060636 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.07

Incorrect code is sometimes generated for complex networks.

Complex links can result in incorrect or incomplete code (some paths are ignored), and as a result, output contacts can't be set or reset.

ID#400060503 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.81.25 SP0x

Error message: Error 1352 : LD expected.

This error message sometimes occurs with complex networks.

ID#400060503 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.06

Incorrect code generation for "stretched" MOV blocks

If the input and output of a MOV block are not on the same line due to a preceding block, the generated code will be incorrect.

ID#400058543 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.05

AS crashes when monitor mode is activated

If an element or variable with the type ARRAY[0..n] OF TIME is linked to a function block input, AS crashes when monitor mode is started.

ID#400058543 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.24 SP0x

AS crashes when monitor mode is activated

If an element or variable with the type ARRAY[0..n] OF TIME is linked to a function block input, AS crashes when monitor mode is started.

ID#245425 : solved problem, known since V3.00.81.18, solved since V3.00.81.23 SP0x

Relaying contacts and coils to a MOVE output causes incorrect functionality.

If contacts or coils are relayed to a MOVE output, the editor indicates that this is invalid, but there is no error during compilation. However, the code generated during compilation contains errors if multiple contacts are relayed together.

ID#245404 : solved problem, known since V3.00.81.18, solved since V3.00.90.04

Relaying contacts and coils to a MOVE output causes incorrect functionality.

If contacts or coils are relayed to a MOVE output, the editor indicates that this is invalid, but there is no error during compilation. However, the code generated during compilation contains errors if multiple contacts are relayed together.

ID#400054923 : solved problem, known since V3.00.81.18, solved since V3.00.90.09

Replace Block sometimes causes display error

ID#400051093 : solved problem, known since V3.00.81.18, solved since V3.00.81.19 SP01

Crash after inserting a new network in front of an empty network

... and then clicking on the network.

ID#400040762 : solved problem, known since V3.00.80.25, solved since V3.00.90.09

Forced values are not specifically identified.

Programming - Motion - Acopos Parameter Table Editor

ID#400061752 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

ACOPOS parameter table: The motor wizard is started when trying to load data from a file

If the category "Motor" was selected in the ACOPOS parameter table dialog box for inserting new groups, then the option "Load Parameters from File" no longer had any effect and the motor wizard was started instead.

Programming - Motion - Cam Editor

ID#400047860 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.05

Cam profile editor remains locked after turning off monitor mode.

Turning off monitor mode doesn't remove the lock on any open cam profile editors. The lock remains until the editors are closed and reopened.

Programming - Motion - CNC Program Editor

ID#400061171 : new function since V3.00.90.10

Syntax highlighting in the CNC program editor not fully available

Syntax highlighting was not available for some of the CNC commands such as G172. A tool tip for this CNC command was not being displayed either.

Programming - Motion - Motor Parameter Table Editor

ID#400059997 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

Not able to add a resolver motor to ACOPOSmulti

A resolver motor was not able to be added to the hardware tree in ACOPOSmulti, even through a resolver card was plugged into the ACOPOSmulti.

Programming - Motion - NC Mapping Table Editor

ID#400048396 : solved problem, known since V3.00.80.25, solved since V3.00.90.09

Interface names can't be corrected in the NC configuration.

Inserting an ACOPOS device module in the hardware tree automatically inserts the corresponding interface (e.g. "SL1.IF2") in the NC configuration. This interface was incorrectly changed to a different name (e.g. "SL2.IF2").

Closing and reopening the project results in the original interface name (e.g. "SL1.IF2") being recreated automatically in the internal structures, since ACOPOS modules are connected to it in the hardware.

The interface in the NC configuration (e.g. "SL2.IF2") can't be renamed to the original interface name (e.g. SL1.IF2), since this name is already used in the internal structures and is therefore no longer available.

Programming - Motion Components

ID#400064409 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

Empty task inserted when an ACOPOSmicro is inserted on an SGC CPU

When an ACOPOSmicro(80SD*) is inserted on an SGC CPU (X20CP02*), an empty task with the name "ncsdccctrl" is created in the logical view.

ID#400064311 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.10

Wrong Wizard opened for X20SM* and X67SM* modules with the function model "Ramp"

When inserting a stepper motor module (X20SM* or X67SM*), if the function model "Ramp" is selected in the wizard, then the wizard pages for SDC configuration are shown, which are not required for the Ramp function model

ID#400061524 : solved problem, known since V3.00.81.24 SP02, solved since V3.00.81.26 SP0x

80VD100PD.C000-01 cannot be operated via NC Mapping Table

ACOPOS startup is interrupted with error 32225 (This ACOPOS POWERLINK node does not exist in the AR Configuration).

ID#400060362 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.08

Trace recording can't be opened in Windows7 64-bit

In Windows7 64-bit, a Net Trace recording can't be evaluated. The trace is saved as a *.bin file. An error message appears saying that the file can't be found.

ID#400060073 : solved problem, known since nicht relevant, solved since V3.00.90.09

The contents of the variable declaration file for the SDC controller task deleted

Adding an 8I64XXXXXX.00X-1 ACOPOSinverter module caused the existing data in the variable declaration file for the SDC controller task (ncsdccctrl.var) to be deleted.

ID#400056878 : solved problem, known since V3.00.81.18, solved since V3.00.81.24 SP0x

Wrong title when tracing multiple axes

When multiple axes are traced, the title of the first axis is always displayed. This causes axis labels to have the same name, and only the first diagram is shown.

The problem only occurs with ARNC0.

ID#400036316 : solved problem, known since V3.00.80.25, solved since V3.00.90.10

The DiagGetStrInfo function from the AsIODiag library only shows "PLKAny" for ACOPOSMulti

The DiagGetStrInfo() function shows the 8AC112 and 8AC114 correctly for ACOPOS, but for ACOPOSMulti only "PLKAny" is returned.

ID# 400022586, 400030657 : solved problem, known since V3.0.71.27 UP04, solved since V3.00.90.05

Inserting an SI4100 changes arnc0cfg

If an X20SI4100 is inserted, the interface configuration of the ARNC0 is changed.

Programming - OPC Alarm Editor

ID#255560 : known problem since V3.00.80.19, correction planned for V3.00.90

Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor

A FindInFiles search for OPC tag names returns the correct results, and double clicking on a result in the output window opens the editor, but then a random tag is selected.

Programming - OPC Custom Properties Editor

ID#255565 : known problem since V3.00.80.19, correction planned for V3.00.90

Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor

A FindInFiles search for OPC tag names returns the correct results, and double clicking on a result in the output window opens the editor, but then a random tag is selected.

Programming - OPC Mapping Editor

ID#400060315 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.10

Linking identical OPC configurations

If a network contains multiple CPUs with the same project, it was previously not possible to link them simultaneously using B&R Windows OPC Server 3.0. The reason was that the OPC name space requires that each element is unique, and the OPC configuration editors in Automation Studio allow an additional hierarchical level to be created for this differentiation. A new option for inserting an additional structure level has been added in the WinOPC mapping editor.

ID#400044413 : solved problem, known since V3.00.80.28 SP01, solved since V3.00.90.10

When inserting OPC tags into the mapping using the Select Variable dialog box, other tag files are inserted

If a tag file is inserted in the mapping using the Select Variable dialog box, the tag declarations below it are inserted too.

ID#255575 : known problem since V3.00.80.19, correction planned for V3.00.90

Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor

A FindInFiles search for OPC tag names returns the correct results, and double clicking on a result in the output window opens the editor, but then a random tag is selected.

ID#255570 : known problem since V3.00.80.19, correction planned for V3.00.90

Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor

A FindInFiles search for OPC tag names returns the correct results, and double clicking on a result in the output window opens the editor, but then a random tag is selected.

Programming - OPC Tag Editor

ID#400057826 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.81.25 SP0x

OPC tag editor: Incorrect length calculation for structures of a function block instance

In the OPC tag editor, the length of a structure from a function block instance was calculated incorrectly.

ID#400057826 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.08

OPC tag editor: Incorrect length calculation for structures of a function block instance

In the OPC tag editor, the length of a structure from a function block instance was calculated incorrectly.

ID#400054966 : solved problem, known since V3.00.81.18, solved since V3.00.81.25 SP0x

"Singularize" generates incorrect array indexes when used in IEC

If an array with an index range unequal to zero is "singularized" in an IEC language, the elements are assigned an index that doesn't exist on the controller.

ID#400054966 : solved problem, known since V3.00.81.18, solved since V3.00.90.08

"Singularize" generates incorrect array indexes when used in IEC

If an array with an index range unequal to zero is "singularized" in an IEC language, the elements are assigned an index that doesn't exist on the controller.

ID#400051430 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.08

Exception in the OPC tag editor when the Singularize function is called

Calling the Singularize function again in the OPC tag editor after adding a structure array member caused an exception.

ID#210295 : solved problem, known since V3.00.80.19, solved since V3.00.90.10

Double clicking on a FindInFiles result selects a random tag in the OPC Tag Editor

A FindInFiles search for OPC tag names returns the correct results, and double clicking on a result in the output window opens the editor, but then a random tag is selected.

Programming - Permanent Variable Table Editor

ID#400051241 : new function since V3.00.90.06

No positive feedback for Check Offsets

There is no feedback message if the results for "Check Offsets" in the editor for permanent variables are positive.

Programming - Select Variable Dialog

ID#400056533 : solved problem, known since V3.00.80.20, solved since V3.00.90.09

Parameters from function blocks and functions not offered in the Select Variable dialog box.

When editing how a block is implemented, the parameters of the block are not offered in the Select Variable dialog box.

Programming - SFC

ID#400067925 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.12

For transitions that contain special characters (\/: * <> |) it is then no longer possible to edit an action. The editor can't be opened.

ID#400058271 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.24 SP0x

No values are displayed in Ladder Diagram steps when in monitor mode

No values are displayed in Ladder Diagram steps when in monitor mode if the step is opened before monitor mode is activated

ID#400054836 : solved problem, known since V3.00.81.21 SP01, solved since V3.00.81.23 SP0x

Crash in monitor mode if no more memory available

ID#400056134 : new function since V3.00.90.04

Errors should also be acknowledged with SFCQuitError when SFCPause = TRUE

If the define -D _SFCPause_NoQuitError exists, the system variables SFCErrors, SFCErrorsStep and SFCErrorsPOU can be reset using the system variable SFCQuitError.

Programming - Software Configuration Editor

ID#400063244 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.27 SP0x

Open Cyclic/Init/Exit in the software configuration opens the wrong instance

The task context is not always defined for programs mapped multiple times when selecting Open Cyclic/Init/Exit.

ID#400063244 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.09

Open Cyclic/Init/Exit in the software configuration opens the wrong instance

The task context is not always defined for programs mapped multiple times when selecting Open Cyclic/Init/Exit.

ID#400055476 : solved problem, known since V3.00.81.18, solved since V3.00.90.05

Object names that contain a comma are not displayed in the software configuration monitor

ID#239225 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.81.19 SP01

Target system modules are not shown for the software configuration when in monitor mode.

If data modules that were created with the PG2000 are inserted in an Automation Studio project, the target modules are not shown if the version numbers of the respective br modules are outside the valid range (> 9999). The PG2000 had a different valid range for version numbers.

Programming - ST

ID#400068185 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.12

Go To Declaration is not offered for members of function blocks

ID#400063410 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.09

Double-clicking on error message sends cursor to wrong line

If a source file contains line-ending data in UNIX format (\n), then the cursor will not be sent to the error position in the source file when double-clicking on an error message.

ID#400062128 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.81.26 SP0x

SmartEdit does not work properly if the editor is opened by double-clicking on the cross reference list.

The SmartEdit functions are not available if an editor for a source file is opened the first time by double-clicking on a cross reference.

ID#400062128 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.08

SmartEdit does not work properly if the editor is opened by double-clicking on the cross reference list.

The SmartEdit functions are not available if an editor for a source file is opened the first time by double-clicking on a cross reference.

ID#400042618 : solved problem, known since V3.00.80.28 SP01, solved since V3.00.90.09

"Comment out" button stays grayed out

The "Comment out" button remains grayed out, even though there is no source code line being commented.

Programming - System Configuration

ID#400068898 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.81.29 SP0x

No compile error when using retain variables

If there are retain variables declared in projects using PP100 or PP300 devices, no compile error occurs. For Powerpanels of this types no retain memory is available.

ID#400068898 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.12

No compile error when using retain variables

If there are retain variables declared in projects using PP100 or PP300 devices, no compile error occurs. For Powerpanels of this types no retain memory is available.

ID#400066525 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

Freezing 2003 backplane module causes build error.

If the 2003 backplane module is already frozen in a project, then in order to correct the build error you need to unfreeze it and freeze the module.

ID#400066205 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

No build error when more local remanent memory is used than was configured.

ID#400059327 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.06

For ARwin, the setting "Preserve permanent PV memory ..." is not preserved.

In the system configuration of an ARwin, the setting "Preserve permanent PV memory ..." is not preserved.

ID#400059327 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.24 SP0x

For ARwin, the setting "Preserve permanent PV memory ..." is not preserved.

In the system configuration of an ARwin, the setting "Preserve permanent PV memory ..." is not preserved.

ID# 400056776 400057107, 400059697 : new function since V3.00.90.07

The IP address of the ARsim can't be set to 0.0.0.0

If the ARsim's IP address is set to 127.0.0.1, then the ARsim can no longer be reached from another computer via the IP of the ARsim.

ID# 400056776 400057107, 400059697 : new function since V3.00.81.25 SP0x

The IP address of the ARsim can't be set to 0.0.0.0

If the ARsim's IP address is set to 127.0.0.1, then the ARsim can no longer be reached from another computer via the IP of the ARsim.

Programming - Variable Declaration Text Editor

ID#400052839 : solved problem, known since V3.00.81.18, solved since V3.00.90.10

Dragging and dropping a selected line sometimes removes a line too many

Tools - Generate Bus Navigator Source

ID#400058060 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.81.26 SP0x

The I/O mapping from the AS project is not applied to the safety project.

In the AS project, any channels with local or global PVs that are mapped to I/O modules are missing when the safety project is opened.

Effects on project development:

- 1) When the channels are dragged into the graphic workspace of the SafeDESIGNER, the names from the AS project are not suggested for the link.
- 2) In the SafeNAVIGATOR the PVs are missing from the "CPU Variable" column.

ID#400060397 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.11

During a BUILD in AS the SafeDESIGNER must not be opened.

If the SafeDESIGNER is opened while a BUILD is running, creation of the BNC may not be completed.
This should therefore be prevented in AS.

ID#400058060 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

The I/O mapping from the AS project is not applied to the safety project.

In the AS project, any channels with local or global PVs that are mapped to I/O modules are missing when the safety project is opened.

Effects on project development:

- 1) When the channels are dragged into the graphic workspace of the SafeDESIGNER, the names from the AS project are not suggested for the link.
- 2) In the SafeNAVIGATOR the PVs are missing from the "CPU Variable" column.

Tools - Import Fieldbus Device

ID#400063594 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.81.27 SP0x

Import could not handle tabulator characters

Tabulator characters at certain positions caused a wrong interpretation of the values in the affected line and this in turn led to a corrupt runtime configuration.

ID#400063594 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.09

Import could not handle tabulator characters

Tabulator characters at certain positions caused a wrong interpretation of the values in the affected line and this in turn led to a corrupt runtime configuration.

ID#400056310 : solved problem, known since V3.00.81.18, solved since V3.00.90.08

Incorrect channel address calculation for imported Powerlink devices with static mapping and user defined datatypes

The mapping offset of user defined datatypes has not been applied for user defined datatypes. Although the offset within the user defined datatypes was correct, the offset within the Powerlink frame was wrong.

ID#400051725 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.81.23 SP0x

I/O Mapping editor does not show any channels for imported CANopen device

PDO mapping entries for objects from 1400 through 1FFF have been excluded from being used as cyclic channels because we expected those objects not to be required as cyclic channels. After reviewing it turns out that there is no further reason why those objects should not be accessible as cyclic channels.

ID#400056310 : known problem since V3.00.81.18, correction planned for V3.00.81.23 SP0x

Incorrect channel address calculation for imported Powerlink devices with static mapping and user defined datatypes

The mapping offset of user defined datatypes has not been applied for user defined datatypes. Although the offset within the user defined datatypes was correct, the offset within the Powerlink frame was wrong.

Tools - Trace

ID# 400034601, 400042798, 400048781, 400052626 : solved problem, known since V3.00.80.25, solved since V3.00.90.07

ENUM data types in trace

Starting with the current version of Automation Studio, the AS trace function will also support variables with the ENUM data type.

Workspace - Common

ID#400067673 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.12

Contents of the dialog box "Tools / Options / Editor" not shown correctly in Korean Windows 7.

ID#400068444 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.81.29 SP0x

With AS 3.00.81.26.SP0x, offsets are assigned incorrectly under some circumstances

In projects with the following characteristics

- * Project contains ANSI C tasks
 - * multiple tasks, at least one ANSI C task, use the same global variables
 - * these variables have the type user data type (structure) or enumerator
 - * the data types are used in ANSI C via variables using _GLOBAL
- the incorrect variable offsets may be assigned for global variables.

To fix this issue in affected projects, perform a Clean and a Rebuild All.

This entry is redundant, see 249785

ID# 400042829, 400045254, 400045023 : solved problem, known since V3.00.80.25, solved since V3.00.90.09

Undocked watch window remains out of view.

ID#400039342 : solved problem, known since V3.00.80.25, solved since V3.00.90.07

The option "Store Nc Operating system on target" doesn't work for SG3 and SGC targets

ID#400049975 : new function since V3.00.90.10

Automation Studio doesn't show a message when two controllers use the same IP address

If the same fixed IP address is assigned to two controller CPUs, then only one of them is randomly selected for the online connection; there is no message to inform the user of this situation.

ID#400025794 : new function since V3.00.90.07

When Automation Studio starts, it always tries to open the last opened project

This behavior can now be configured under Tools / Options / General.

Workspace - Configuration View

ID#400066009 : new function since V3.00.90.11

After the upgrade dialog box is canceled no other configuration can be activated

If you're activating a configuration and the upgrade dialog box is opened to perform a required upgrade, if the upgrade is canceled then no other configuration can be activated.

Workspace - Export/Import

ID#400061566 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.07

Interface settings are set to defaults after hardware import.

If the hardware (incl. CPU) is exported, then the default values will entered instead of the interface settings for the POWERLINK interface when importing.

This affects the following hardware modules: 4PP065.0351-P74, 4PP065.0571-P74, 4PP065.0571-K01.

ID#400059518 : solved problem, known since V3.00.81.23 SP0x, solved since V3.00.90.07

When importing/exporting hardware modules, the I/O mapping descriptions are lost.

When importing, the I/O mappings are missing.

ID#400058276 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.06

Special characters replaced by question marks during import

If a data object that contains special characters is exported from an AS V2.x project using File -> Export and then imported into an AS V3.0.81.x project using File -> Import .
all special characters in the data object are replaced by question marks.

ID#400056949 : solved problem, known since V3.00.81.18, solved since V3.00.90.05

*.hpp files are not exported with "Export Source Library"

*.hpp files can't be selected for exporting.

ID#400056949 : solved problem, known since V3.00.81.18, solved since V3.00.81.23 SP0x

*.hpp files are not exported with "Export Source Library"

*.hpp files can't be selected for exporting.

ID#400040120 : solved problem, known since V3.00.80.25, solved since V3.00.90.03

When adding existing objects, the object description is not added

If objects (programs, data objects, packets) from other projects are added to an existing project using Add Object / Existing wizards, then their description is not added.

Workspace - Find/Replace

ID#400069438 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.12

Replace in "whole file"

In the Replace dialog box, even if "Whole file" is selected, any terms located before the cursor are not replaced. WrapAround can't be enabled.

ID#400058790 : new function since V3.00.90.07

Find text or replace text displayed in the output window for FindInFiles/ReplaceInFiles

With FindInFiles/ReplaceInFiles, the text being searched for or replaced is not shown in the output window.

Workspace - Help Explorer

ID#400055263 : solved problem, known since V3.00.90.03, solved since V3.00.90.04

Sample files that are linked to on Help pages can't be saved.

There is no "Save as..." dialog box for the sample files that are linked to on the Help pages.

ID#400055263 : solved problem, known since V3.00.81.18, solved since V3.00.81.22 SP01

Sample files that are linked to on Help pages can't be saved.

There is no "Save as..." dialog box for the sample files that are linked to on the Help pages.

Workspace - Localization

ID#400058790 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.09

Find text or replace text displayed in the output window for FindInFiles/ReplaceInFiles

With FindInFiles/ReplaceInFiles, the text being searched for or replaced is not shown in the output window.

Workspace - Logical View

ID#400056231 : solved problem, known since V3.00.81.20 SP01, solved since V3.00.90.04

Cyclic program won't open

The command "Open cyclic program" doesn't work if the name of the file is written differently in the file system than it is in the AS project. "vcFastBitProcessing.c" != "vcfastbitprocessing.c"

ID#400053822 : solved problem, known since V3.00.80.25, solved since V3.00.81.27 SP0x

It is possible to create tasks that have a comma in their name

In the software configuration, it is possible to create a task that has a comma in its name.

ID#400052527 : solved problem, known since V3.00.81.18, solved since V3.00.81.20 SP01

When the name of the library is changed, referenced files with the same name are also renamed.

ID#400063251 : new function since V3.00.90.09

Declaration files added to a library after it has been created cannot be renamed.

If additional declaration files with the extension .typ or .var are added to a library, then they cannot be renamed.

Workspace - Physical View

ID#400069234 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.81.29 SP0x

The Automation Runtime version can't be changed if safety hardware modules are frozen in the current configuration.

Trying to change the version of Automation Runtime in a configuration that contains safety hardware modules frozen at Version 1.2, when the installed version of the same safety hardware modules is >= 1.4, results in an error message.

ID#400069234 : solved problem, known since V3.00.81.26 SP0x, solved since V3.00.90.12

The Automation Runtime version can't be changed if safety hardware modules are frozen in the current configuration.

Trying to change the version of Automation Runtime in a configuration that contains safety hardware modules frozen at Version 1.2, when the installed version of the same safety hardware modules is ≥ 1.4 , results in an error message.

ID# 400067241, 400068754 : solved problem, known since V3.00.80.34 SP02, solved since V3.00.81.29 SP0x

With an existing online connection, fixed node numbers are detected incorrectly

For X2X configurations, fixed node numbers are entered, although the respective hardware modules don't have fixed node numbers configured.

ID# 400067241, 400068754 : solved problem, known since V3.00.80.34 SP02, solved since V3.00.90.11

With an existing online connection, fixed node numbers are detected incorrectly

For X2X configurations, fixed node numbers are entered, although the respective hardware modules don't have fixed node numbers configured.

ID#400063350 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.09

Incorrect dialog box shown during hardware export in Windows 7.

ID#400055434 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.07

For ACOPOSmicro, not all hardware module description files are updated during an upgrade.

After upgrading the ACOPOSmicro, an error message is generated when the respective project is opened, indicating a missing hardware module "80VDxxxx.xx22-xx".

ID#400057278 : solved problem, known since V3.00.81.18, solved since V3.00.81.24 SP0x

Slow system response when opening the connection dialog box between Safety CPUs

It takes too long to open the dialog box for selecting connected SL modules.

ID#400057419 : solved problem, known since V3.00.81.22 SP01, solved since V3.00.90.05

If the configuration and the PLC have the same name, then modules can't be inserted.

If the configuration and the CPU it contains have the same name, then an IF module can't be inserted on the X20BC1083.

ID#400057278 : solved problem, known since V3.00.81.18, solved since V3.00.90.07

Slow system response when opening the connection dialog box between Safety CPUs

It takes too long to open the dialog box for selecting connected SL modules.

ID#400054960 : solved problem, known since V3.00.81.18, solved since V3.00.90.05

Project containing frozen fieldbus devices can't be built.

If "freeze all" is performed on a project containing fieldbus devices, a subsequent build will result in error messages.

ID#400056399 : solved problem, known since V3.00.81.18, solved since V3.00.90.05

Slow system response when opening the connection dialog box between Safety CPUs

It takes too long to open the dialog box for selecting connected SL modules.

ID#400054960 : solved problem, known since V3.00.81.18, solved since V3.00.81.23 SP0x

Project containing frozen fieldbus devices can't be built.

If "freeze all" is performed on a project containing fieldbus devices, a subsequent build will result in error messages.

ID#400055434 : solved problem, known since V3.00.81.18, solved since V3.00.81.23 SP0x

4PP035.E300 displayed incorrectly in the physical view in AS 3.0.81.18

4PP035.E300-01, 4PP035.E300-136 and 4PP035.E300-36 are shown incorrectly - with slots instead of display or I/O.

ID# 400042992, 400043877, 400048435 : solved problem, known since V3.00.80.25, solved since V3.00.90.05

USB device can't be deleted

On an APC, only a ushubAP900 can be inserted at USB 1 or USB 4.
However, it is then no longer possible to delete this hub.

ID#400042894 : new function since V3.00.90.14

With CPUs used as a POWERLINK V2 CN, it is now possible to configure a fixed InSize and OutSize for the POWERLINK data.

ID#400056817 : new function since V3.00.90.08

SafeDESIGNER cannot be opened after uploading hardware that contains safe modules.

If the SafeDESIGNER is activated via the SafeLOGIC, then it will not be loaded after uploading hardware configurations with safe modules.

Workspace - Project Converter

ID#400044280 : solved problem, known since V3.00.80.25, solved since V3.00.90.11

Motor parameters are converted incorrectly

When opening a 2.x project, the motor parameters for synchronous motors are entered incorrectly.

ID#400065402 : new function since V3.00.90.11

When a 2.x project is opened, the version info isn't set properly.

When a 2.x project is opened, the version info in the properties of the object in the software configuration is not set to "use default".

Workspace - Save Project As Zip

ID#400064521 : solved problem, known since V3.00.81.24 SP0x, solved since V3.00.90.12

"Save Project As" doesn't work if the VC editor is open for one of the project's objects

Workspace - Source Control

ID#400068446 : solved problem, known since V3.00.80.31 SP01, solved since V3.00.90.12

Performance problem when using SVN

Using SVN can reduce performance of the AS editors, because they check the source control status with every operation.

ID#400059441 : solved problem, known since V3.00.81.25 SP0x, solved since V3.00.90.07

The entire project will not be retrieved during project update if one of the files is blocked.

1A4300.02 (1.3 Automation Help 3.x)

AS - Diagnostics

ID#400028142 : new function since V3.00.90.10

Checklist for handling errors

The Automation Studio Help system doesn't have a chapter about I/O and network diagnostics

Diagnostics - Profiler

ID#400032355 : new function since V3.00.90.10

Setting for the maximum number of profiler archive modules

The maximum number of archive modules can now be set in the profiler configuration. Once the configured maximum number of archive modules for the controller has been reached on the controller, the oldest one is automatically deleted before creating a new one.

Hardware - Motion

ID# 400052222, 400053742, 400054269, 400054445, 400056806 : known problem since V3.00.81.22 SP01, correction planned for V3.00.81.27 SP0x

Calculation of Speed/Torque Characteristics failed

Due to data type changes in the motor wizard, no more motor data is transferred to the calculation tool for Speed/Torque Characteristics. The data query for the calculation tool was adapted appropriately.

Hardware - Motion ---

ID# 400052222, 400053742, 400054269, 400054445, 400056806, 400062716, 400063871 : solved problem, known since V3.00.81.28 SP0x, solved since V3.00.81.29 SP0x

Calculation of Speed/Torque Characteristics failed

Due to data type changes in the motor wizard, no more motor data is transferred to the calculation tool for Speed/Torque Characteristics. The data query for the calculation tool was adapted appropriately.

Libraries - Samples

ID#227270 : new function planned for V3.00.90

Executable samples for the DRV_mn library

1A4600.10-2 Automation Runtime ARwin, ARNC0**Hardware**

ID#180535 : known problem since 1.0.0.0, correction planned for 1.0.1.0

New I/O channel "SystemTime"

3IF762.9**Hardware 5745_0.pci**

ID#245235 : solved problem, known since 1.0.0.1, solved since 1.0.0.1

Error correction in the FPGA UART implementation

3IF779.9**Hardware**

ID#245365 : solved problem, known since 1.0.2.0, solved since 1.0.2.0

Error correction in the FPGA UART implementation

3IF782.9-1**Hardware**

ID#256970 : new function planned for 1.2.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256820 : new function planned for 1.2.0.2

POWERLINK: LinkOK data point added.

ID#265775 : known problem since 1.1.13.0, correction planned for 1.2.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265665 : known problem since 1.1.0.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#262397 : known problem since 1.1.13.0, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#400057319 : known problem since 1.1.12.0, correction planned for 1.2.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

ID#243507 : known problem since 1.1.12.0, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

3IF786.9-1**Hardware**

ID#256975 : new function planned for 1.2.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256825 : new function planned for 1.2.0.2

POWERLINK: LinkOK data point added.

ID#265875 : known problem since 1.1.13.0, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265670 : known problem since 1.1.0.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256920 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

3IF787.9-1

Hardware

ID#256980 : new function planned for 1.2.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256830 : new function planned for 1.2.0.2

POWERLINK: LinkOK data point added.

ID#265880 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265780 : known problem since 1.1.12.1, correction planned for 1.2.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265675 : known problem since 1.1.0.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256925 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

3IF789.9-1**Hardware**

ID#230770 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256985 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256835 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265785 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265680 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#400057319 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

3IF789.9-11**Hardware**

ID#256990 : new function planned for 1.2.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256840 : new function planned for 1.2.0.2

POWERLINK: LinkOK data point added.

ID#265890 : known problem since 1.1.5.1, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265790 : known problem since 1.1.5.1, correction planned for 1.2.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265685 : known problem since 1.1.0.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256930 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

3IF797.9-1

Hardware

ID#245210 : solved problem, known since 1.0.2.0, solved since 1.0.2.0

Error correction in the FPGA UART implementation

3IF7E3.9

Hardware

ID#257470 : new function since 1.0.2.0

Vendor ID changed

Module identifies with B&R Vendor ID now

Caution! This upgrade requires changed settings on the master using the latest GSD file.

ID#240745 : new function since 1.0.1.0

Interface module PROFINET RT Slave, Configuration of netX cycle time

Interface module PROFINET RT Slave, Configuration of netX cycle time.

Hardware 1.0.0.1

ID#237710 : new function since 1.0.0.1

Interface module PROFINET RT Device, new online help

Interface module PROFINET RT Device, new online help

4D1164.00-590

Hardware

ID#245890 : new function planned for 1.0.1.0

Driver added to HWC

4D1166.00-490

Hardware

ID#245900 : new function planned for 1.0.1.0

Driver added to HWC

4PP065.0351-P74

Hardware

ID#261790 : new function planned for 1.0.2.0

POWERLINK: LinkOK data point added.

ID#236170 : new function planned for 1.0.0.3

Installation of the upgrade only possible from AS 3.0.80.25

ID#400057947 : known problem since unbekannt, correction planned for 1.0.1.0

Keys work in terminal mode

4PP065.0351-X74

Hardware

ID#400057947 : known problem since unbekannt, correction planned for 1.0.5.0

Keys work in terminal mode

ID#236250 : known problem since V3.00.80.31 SP01, correction planned for 1.0.4.0

Error at terminal mode corrected

4PP065.0571-K01**Hardware**

ID#240150 : known problem since unbekannt, correction planned for 1.0.1.0

4PP065.0571-K01 cannot be longer inserted in AS as standard panel

4PP065.0571-K05**Hardware**

ID#240145 : known problem since unbekannt, correction planned for 1.0.2.0

4PP065.0571-K05 cannot be longer inserted in AS as standard panel

ID#236880 : known problem since V3.00.80.31 SP01, correction planned for 1.0.1.0

Error at terminal mode corrected

4PP065.0571-K07**Hardware**

ID#240155 : known problem since unbekannt, correction planned for 1.0.1.0

4PP065.0571-K07 cannot be longer inserted in AS as standard panel

4PP065.0571-P74**Hardware**

ID#262385 : new function planned for 1.0.1.0

POWERLINK: LinkOK data point added.

ID#236165 : new function planned for 1.0.0.3

Installation of the upgrade only possible from AS 3.0.80.25

4PP065.0571-P74F**Hardware**

ID#262405 : new function planned for 1.0.1.0

POWERLINK: LinkOK data point added.

4PP065.IF33-1**Hardware**

ID#240760 : new function planned for 1.0.0.1

Documentation added

4PP480.1043-75**Hardware**

ID#241265 : known problem since unbekannt, correction planned for 1.0.1.0

Changed HWC File

spelling failure in test
APROL function added

4XP0000.00-K41**Hardware**

ID#254370 : new function planned for 1.0.1.0

Support of SGC 4XP0000.00-K41

5AC600.CANI-00**Hardware**

ID#151335 : known problem since unbekannt, correction planned for 1.0.1.0

solved problem

"?" sign in hardwaretree in spite of correct CAN- connection.

5ACPCC.MPL0-00

Hardware

ID#253700 : known problem since unbekannt, correction planned for 1.0.1.1

Add-on "Modul-OK"

Add-on "Modul-OK" in I/O Mapping

unbekannt

ID#250445 : known problem since unbekannt, correction planned for 1.0.1.0

Add-on "Modul-OK"

Add-on "Modul-OK" in I/O Mapping

5ACPCI.XCOM-00**Hardware**

ID#270080 : known problem since unbekannt, correction planned for 1.1.0.0

CANopen master doesn't write output data to all slaves

When using a special configuration with several CANopen slaves the output data is only written to the first slave.

ID#240495 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5ACPCI.XCOS-00**Hardware**

ID#240505 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5ACPCI.XDNM-00**Hardware**

ID#240510 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5ACPCI.XDNS-00**Hardware**

ID#240515 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5ACPCI.XDPM-00**Hardware**

ID#240460 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5ACPCI.XDPS-00**Hardware**

ID#240465 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5ACPCI.XPNM-00**Hardware**

ID#240475 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5ACPCI.XPNS-00**Hardware**

ID#240485 : known problem since unbekannt, correction planned for 1.0.1.2

Configuration of netX cycle time

The cycle time for data exchange between CPU and netX can be configured now.

5LS166.6**Hardware**

ID#248345 : solved problem, known since 1.0.2.0, solved since 1.0.2.0

Error correction in the FPGA UART implementation

5LS182.6-1**Hardware**

ID#400054385 : solved problem, known since V3.00.80.30 SP01, solved since 1.1.16.0

FW1.1.14.2 of the LS 182.6-1 tends to invalid Datapoints

Error in the .hwc

ID#400046653 : solved problem, known since 1.1.12.0, solved since 1.1.13.1

Reset behavior improved and new data points created

Error correction: After a restart, the default firmware was loaded and then updated again.

New data points:

- SerialNumber
- ModuleID
- HardwareVariant
- FirmwareVersion

ID#230835 : solved problem, known since 1.1.9.0, solved since 1.1.12.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#243767 : new function since 1.1.16.0

Parameter "OutputDMAMargin" activated for B3.07

ID#241602 : new function since 1.1.14.2

PCI diagnosis and new data points added; + Synchronization problem in TK#1 fixed

In various projects, a cycle time violation occurred occasionally.

New data points:

- PCILoadPercentFirstHalf
- PCILoadPercentSecondHalf
- OutputDMAMargin

ID#256910 : new function planned for 1.2.0.2

POWERLINK: LinkOK data point added.

ID#265885 : known problem since 1.1.16.0, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265690 : known problem since 1.1.0.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#265360 : known problem since 1.1.16.0, correction planned for 1.2.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#256950 : known problem since 1.1.16.0, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.1.16.0, correction planned for 1.2.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

5LS182.6-2

Hardware

ID#265650 : solved problem, known since 1.1.0.0, solved since 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#400054829 : solved problem, known since 1.0.3.0, solved since 1.0.4.0

PCI diagnosis and new data points added; + Synchronization problem in TK#1 fixed

In various projects, a cycle time violation occurred occasionally.

New data points:

- OutputDMAMargin

ID#237685 : solved problem, known since 1.0.2.0, solved since 1.0.3.0

Reset behavior improved and new data points created

Error correction: After a restart, the default firmware was loaded and then updated again.

New data points:

- SerialNumber
- ModuleID
- HardwareVariant
- FirmwareVersion

ID#234925 : solved problem, known since 1.0.1.0, solved since 1.0.2.0

New POWERLINK firmware V106

POWERLINK V2 chained stations: Reconnecting failed stations improved.
LinkOK Datapoint in Operating Mode 'Ethernet' available.

ID#265895 : known problem since 1.0.4.0, correction planned for 1.1.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265365 : known problem since 1.1.0.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#256955 : known problem since 1.0.4.0, correction planned for 1.1.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.0.4.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

5LS187.6-1

Hardware

ID#230840 : solved problem, known since 1.1.9.0, solved since 1.1.12.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#400041497 : solved problem, known since 1.1.12.0, solved since 1.1.12.0

Problems starting CAN-FW corrected

ID#257050 : new function planned for 1.2.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256915 : new function planned for 1.2.0.2

POWERLINK: LinkOK data point added.

ID#265900 : known problem since 1.1.13.0, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265795 : known problem since 1.1.13.0, correction planned for 1.2.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265695 : known problem since 1.1.10.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256960 : known problem since 1.1.13.0, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.1.13.0, correction planned for 1.2.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

5LS189.6-1

Hardware

ID#240320 : solved problem, known since 1.1.12.1, solved since 1.1.13.0

Reset behavior improved and new data points created

Error correction: After a restart, the default firmware was loaded and then updated again.

New data points:
 - SerialNumber
 - ModuleID
 - HardwareVariant
 - FirmwareVersion

ID#235120 : new function since 1.1.12.1

LinkOK Datapoint available.

ID#257055 : new function planned for 1.2.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#265905 : known problem since 1.1.13.0, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265800 : known problem since 1.1.13.0, correction planned for 1.2.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265700 : known problem since 1.1.0.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256965 : known problem since 1.1.13.0, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

5PC600.E855-01

Hardware

ID#246005 : new function planned for 2.0.0.0

Support 5PC600.E855-01

5PC600.E855-02

Hardware

ID#246050 : new function planned for 2.0.1.0

Support 5PC600.E855-02

5PC600.E855-03

Hardware

ID#246010 : new function planned for 2.0.0.0

Support 5PC600.E855-03

5PC600.E855-04

Hardware

ID#246015 : new function planned for 2.0.0.0

Support 5PC600.E855-04

5PC600.E855-05

Hardware

ID#246055 : new function planned for 2.0.1.0

Support 5PC600.E855-05

5PC600.SE00-00

Hardware

ID#267150 : new function planned for 2.0.0.3

Support for USB keyboards

USB keyboards can be projected.

ID#242900 : known problem since unbekannt, correction planned for 2.0.0.1

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

ID#223850 : known problem since unbekannt, correction planned for 1.0.7.0

New PLK and new CAN firmware

POWERLINK V2: Boot behavior improved
CAN: TransmitQueue Reset command corrected
CAN: Filter on CAN RX installed

Hardware 1.0.8.0

ID#242550 : known problem since unbekannt, correction planned for 1.0.8.0

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

5PC600.SE00-01

Hardware

ID#267155 : new function planned for 2.0.0.3

Support for USB keyboards

USB keyboards can be projected.

ID#242920 : known problem since unbekannt, correction planned for 2.0.0.1

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

ID#224155 : known problem since unbekannt, correction planned for 1.0.7.0

New PLK and new CAN firmware

POWERLINK V2: Boot behavior improved
CAN: TransmitQueue Reset command corrected
CAN: Filter on CAN RX installed

Hardware 1.0.8.0

ID#242580 : known problem since unbekannt, correction planned for 1.0.8.0

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

5PC600.SE00-02**Hardware**

ID#267160 : new function planned for 2.0.0.3

Support for USB keyboards

USB keyboards can be projected.

ID#242925 : known problem since unbekannt, correction planned for 2.0.0.1

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

ID#224315 : known problem since unbekannt, correction planned for 1.0.7.0

New PLK and new CAN firmware

POWERLINK V2: Boot behavior improved
CAN: TransmitQueue Reset command corrected
CAN: Filter on CAN RX installed

Attention: Because of a bugfix in the device description file projects, that include a 5PC600.SE00-02 (version < 1.0.7.0), have to be recreated!

Hardware 1.0.8.0

ID#242605 : known problem since unbekannt, correction planned for 1.0.8.0

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

5PC600.SF03-00**Hardware**

ID#267555 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168895 : known problem since unbekannt, correction planned for 1.0.1.1

solved problem

correction of I/O mapping
- TemperatureIO

5PC600.SX01-00**Hardware**

ID#267180 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#226385 : known problem since unbekannt, correction planned for 1.0.2.0

One additional PCI slot inserted

To be able to configure the maximum number of PCI devices and additionally to configure the SRAM module 5AC600.SRAM-00, it was necessary, to add one more PCI slot in the device description file.

5PC600.SX02-00**Hardware**

ID#267535 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#225950 : known problem since unbekannt, correction planned for 1.0.2.0

One additional PCI slot inserted

To be able to configure the maximum number of PCI devices and additionally to configure the SRAM module 5AC600.SRAM-00, it was neccassary, to add one more PCI slot in the device description file.

5PC600.SX02-01

Hardware

ID#267540 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#225955 : known problem since unbekannt, correction planned for 1.0.2.0

One additional PCI slot inserted

To be able to configure the maximum number of PCI devices and additionally to configure the SRAM module 5AC600.SRAM-00, it was neccassary, to add one more PCI slot in the device description file.

5PC600.SX05-00

Hardware

ID#267545 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#226405 : known problem since unbekannt, correction planned for 1.0.2.0

One additional PCI slot inserted

To be able to configure the maximum number of PCI devices and additionally to configure the SRAM module 5AC600.SRAM-00, it was neccassary, to add one more PCI slot in the device description file.

5PC600.SX05-01

Hardware

ID#267550 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#226420 : known problem since unbekannt, correction planned for 1.0.2.0

One additional PCI slot inserted

To be able to configure the maximum number of PCI devices and additionally to configure the SRAM module 5AC600.SRAM-00, it was neccassary, to add one more PCI slot in the device description file.

5PC720.1043-00

Hardware

ID#267630 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

5PC720.1043-01

Hardware

ID#267635 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168710 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:
BatteryStatus
SerialNumber
Temperature power supply
Temperature under add-on drive
SystemTime

5PC720.1214-00**Hardware**

ID#267640 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168720 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:
BatteryStatus
SerialNumber
Temperature power supply
Temperature under add-on drive
SystemTime

5PC720.1214-01**Hardware**

ID#267645 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168725 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:
BatteryStatus
SerialNumber
Temperature power suppl
Temperature under add-on drive
SystemTime

5PC720.1505-00**Hardware**

ID#267650 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168840 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:
BatteryStatus
SerialNumber
Temperature power supply
Temperature under add-on drive
SystemTime

5PC720.1505-01

Hardware

ID#267655 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168845 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:

BatteryStatus

SerialNumber

Temperature power suppl

Temperature under add-on drive

SystemTime

5PC720.1505-02**Hardware**

ID#267660 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168850 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:

BatteryStatus

SerialNumber

Temperature power suppl

Temperature under add-on drive

SystemTime

5PC720.1706-00**Hardware**

ID#267665 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168855 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:

BatteryStatus

SerialNumber

Temperature power suppl

Temperature under add-on drive

SystemTime

5PC720.1906-00**Hardware**

ID#267670 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168865 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:

BatteryStatus

SerialNumber

Temperature power suppl
Temperature under add-on drive
SystemTime

5PC781.1043-00**Hardware**

ID#267675 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168870 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:
BatteryStatus
Serialnumber
Temperature power supply
Temperature under add-on drive
SystemTime

5PC781.1505-00**Hardware**

ID#267680 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168875 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:
BatteryStatus
Serialnumber
Temperature power suppl
Temperature under add-on drive
SystemTime

5PC782.1043-00**Hardware**

ID#267685 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

unbekannt

ID#168885 : known problem since unbekannt, correction planned for 1.0.1.0

Enlargement

I/O Mapping extension:
BatteryStatus
Serialnumber
Temperature power suppl
Temperature under add-on drive
SystemTime

5PC800.B945-01**Hardware**

ID#246060 : new function planned for 2.0.0.0

Support 5PC800.B945-01

ID#400054707 : known problem since V3.00.81.19 SP01

Windows Terminal Funktion

5PC820.SX02-00 with Windows terminal function

5PC800.B945-02**Hardware**

ID#246065 : new function planned for 2.0.0.0

Support 5PC800.B945-02

5PC800.B945-03**Hardware**

ID#246130 : new function planned for 2.0.0.0

Support 5PC800.B945-03

5PC800.B945-04**Hardware**

ID#246170 : new function planned for 2.0.0.0

Support 5PC800.B945-04

5PC800.B945-10**Hardware**

ID#251740 : new function planned for 2.0.0.0

Support 5PC800.B945-10

5PC800.B945-11**Hardware**

ID#251745 : new function planned for 2.0.0.0

Support 5PC800.B945-11

5PC800.B945-13**Hardware**

ID#251755 : new function planned for 2.0.0.0

Support 5PC800.B945-13

5PC800.B945-14**Hardware**

ID#251765 : new function planned for 2.0.0.0

Support 5PC800.B945-14

5PC810.SX01-00**Hardware**

ID#267060 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

5PC810.SX02-00**Hardware**

ID#267115 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

5PC810.SX03-00**Hardware**

ID#267140 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

5PC810.SX05-00**Hardware**

ID#267145 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

5PC820.1505-00**Hardware**

ID#267025 : new function planned for 2.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#234390 : known problem since unbekannt, correction planned for 1.0.0.2

Standard PCI slots and PCI express compact slot seperated

The standard PCI slots and the PCI express compact slot are now seperated in the hardware tree. The PCI express compact slot is fixed on slot 3 (SL3).

5PC820.1906-00**Hardware**

ID#267020 : new function planned for 2.0.0.4

Support for USB keyboards

USB keyboards can be projected.

ID#264920 : new function planned for 2.0.0.3

Problems with I/O mapping with AR < A3.08

The I/O mapping for running Automation Runtime < A3.08 was corrected.

ID#262225 : new function planned for 2.0.0.1

Support for Windows terminal mode

The hardware description file for the support of the Windows terminal mode was added.

5PC820.SX01-00**Hardware**

ID#267005 : new function planned for 2.0.0.3

Support for USB keyboards

USB keyboards can be projected.

ID#242935 : known problem since unbekannt, correction planned for 2.0.0.1

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

ID#220380 : known problem since unbekannt, correction planned for 1.0.0.4

HWC BugFix and new PLK firmware

Compatibility problem with interface numeration
Correction of alternating puffer handling
New powerlink firmware V103

Hardware HWC Setup V1.0.1.0

ID#242725 : known problem since unbekannt, correction planned for 1.0.1.0

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106
- Link OK status as I/O datapoint for Powerlink added

5PC820.SX01-01**Hardware**

ID#267010 : new function planned for 2.0.0.3

Support for USB keyboards

USB keyboards can be projected.

ID#242940 : known problem since unbekannt, correction planned for 2.0.0.1

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106

- Link OK status as I/O datapoint for Powerlink added

ID#224525 : known problem since unbekannt, correction planned for 1.0.0.4

HWC BugFix and new PLK firmware

Compatibility problem with interface numeration

Correction of alternating puffer handling

New powerlink firmware V103

Support from Automation Runtime version R3.00

Hardware HWC Setup V1.0.1.0

ID#242765 : known problem since unbekannt, correction planned for 1.0.1.0

POWERLINK Firmware and I/O Datapoint

- update POWERLINK Firmware V106

- Link OK status as I/O datapoint for Powerlink added

5PP520.0573-00**Hardware**

ID#266825 : new function planned for 1.0.0.5

Error in the addressing

Because of collision of USB and COM interface, the USB is postponed to IF2 und IF3.

ID#266720 : new function planned for 1.0.0.4

Support for USB keyboards

USB keyboards can be projected.

ID#259035 : new function planned for 1.0.0.3

Problems with terminal modes

Problems, that have arisen in connection with the terminal modes, will be corrected with changes in the respective hardware description files.

5PP520.0702-00**Hardware**

ID#266845 : new function planned for 1.0.0.6

Error in the addressing

Because of collision of USB and COM interface, the USB is postponed to IF2 und IF3.

ID#266761 : new function planned for 1.0.0.5

Support for USB keyboards

USB keyboards can be projected.

ID#259170 : new function planned for 1.0.0.3

Problems with terminal modes

Problems, that have arisen in connection with the terminal modes, will be corrected with changes in the respective hardware description files.

ID#260550 : known problem since unbekannt, correction planned for 1.0.0.4

Problem with windows terminal mode

A problem, that occurred in connection with the windows terminal mode, has been fixed.

5PP520.1043-00**Hardware**

ID#266865 : new function planned for 1.0.0.6

Error in the addressing

Because of collision of USB and COM interface, the USB is postponed to IF2 und IF3.

ID#266781 : new function planned for 1.0.0.5

Support for USB keyboards

USB keyboards can be projected.

ID#266595 : new function planned for 1.0.0.4

Support for customized devices

ID#260610 : new function planned for 1.0.0.3

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP520.1214-00**Hardware**

ID#266930 : new function planned for 1.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#260495 : new function planned for 1.0.0.1

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP520.1505-00**Hardware**

ID#266935 : new function planned for 1.0.0.3

Support for USB keyboards

USB keyboards can be projected.

ID#260665 : known problem since unbekannt, correction planned for 1.0.0.2

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP551.0573-00**Hardware**

ID#266940 : new function planned for 1.0.0.4

Support for USB keyboards

USB keyboards can be projected.

ID#262255 : new function planned for 1.0.0.3

Correction of LED layout

The incorrect led layout was corrected in the corresponding hardware description file.

ID#261635 : new function planned for 1.0.0.2

Correction of incorrect key assignment

The incorrect key assignment was corrected in the corresponding hardware description file.

ID#261390 : new function planned for 1.0.0.1

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP552.0573-00

Hardware

ID#266945 : new function planned for 1.0.0.4

Support for USB keyboards

USB keyboards can be projected.

ID#262220 : new function planned for 1.0.0.3

Problem with ARwin & embedded terminal client

The operation of an embedded terminal client on 5PP552.0573-00 with operating Automation Runtime Windows (ARwin) caused a black screen on the terminal device. This malfunction was corrected.

ID#261645 : new function planned for 1.0.0.2

Correction of incorrect key assignment

The incorrect key assignment was corrected in the corresponding hardware description file.

ID#261240 : new function planned for 1.0.0.1

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP580.1043-00

Hardware

ID#266950 : new function planned for 1.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#263101 : new function planned for 1.0.0.1

Preview bitmaps corrected

The preview bitmaps in the corresponding hardware description file have been corrected.

5PP580.1505-00

Hardware

ID#266990 : new function planned for 1.0.0.4

Support for USB keyboards

USB keyboards can be projected.

ID#263096 : new function planned for 1.0.0.3

Preview bitmaps corrected

The preview bitmaps in the corresponding hardware description file have been corrected.

ID#262905 : new function planned for 1.0.0.2

Wrong bitmap is displayed

For the hardware description file of the terminal mode the wrong bitmap file is displayed. This has been corrected.

ID#261400 : new function planned for 1.0.0.1

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP581.1043-00**Hardware**

ID#266955 : new function planned for 1.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#261245 : new function planned for 1.0.0.1

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP581.1505-00**Hardware**

ID#266995 : new function planned for 1.0.0.4

Support for USB keyboards

USB keyboards can be projected.

ID#260440 : new function planned for 1.0.0.3

Problem with embedded terminal mode

A problem, that have arisen in connection with the embedded terminal mode, has been fixed.

ID#260330 : new function planned for 1.0.0.2

Problem with windows terminal mode

A problem, that have arisen in connection with the windows terminal mode, has been fixed.

ID#258955 : new function planned for 1.0.0.1

Problems with terminal modes

Problems, that have arisen in connection with the terminal modes, will be corrected with changes in the respective hardware description files.

5PP582.1043-00**Hardware**

ID#266985 : new function planned for 1.0.0.2

Support for USB keyboards

USB keyboards can be projected.

ID#261255 : new function planned for 1.0.0.1

Problems with terminal modes

Problems, that occurred in connection with the terminal modes, were corrected with changes in the respective hardware description files.

5PP5CP.US15-00**Hardware**

ID#267420 : new function planned for 1.0.0.3

Changed hardware description file and new firmware

Support for I/O board.

Support for 4-wire touch.

Preperation for soundsupport.

ID#258490 : new function planned for 1.0.0.2

Problems with LEDs of PP500 devices with keys

The new firmware version V0.25 fixes the problem with the LEDs of PP500 devices.

5PP5CP.US15-01

Hardware

ID#267425 : new function planned for 1.0.0.3

Changed hardware description file and new firmware

Support for I/O board.
Support for 4-wire touch.
Preperation for soundsupport.

ID#258485 : new function planned for 1.0.0.2

Problems with LEDs of PP500 devices with keys

The new firmware version V0.25 fixes the problem with the LEDs of PP500 devices.

5PP5CP.US15-02**Hardware**

ID#267430 : new function planned for 1.0.0.3

Changed hardware description file and new firmware

Support for I/O board.
Support for 4-wire touch.
Preperation for soundsupport.

ID#258480 : new function planned for 1.0.0.1

Problems with LEDs of PP500 devices with keys

The new firmware version V0.25 fixes the problem with the LEDs of PP500 devices.

5PP5IF.FPLM-00**Hardware**

ID#268145 : new function planned for 1.1.0.0

New FPGA firmware V05 and new POWERLINK firmware V112

FPGA firmware:

- FPGA: SRAM data were lost in the RemMem area after a power failure. This is fixed with the new firmware version.

POWERLINK firmwar:

- POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

- POWERLINK: The net time is not always transferred correctly to the application.

- POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

- Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chaned Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

- POWERLINK V2: If the the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

5PP5IF.FX2X-00**Hardware**

ID#266260 : known problem since unbekannt, correction planned for 1.0.0.1

Problem with the SRAM

Problem with SRAM is solved.

7EC020.60-2**Hardware**

ID#400052453 : known problem since V3.00.81.18, correction planned for 1.0.2.0

7EC020.60-2 can be changed against other CPU's

ID# 400009563, 400018914 : known problem since unbekannt, correction planned for 1.0.1.0

VNC works without problems

7EC020.61-2**Hardware**

ID#400052453 : known problem since V3.00.81.18, correction planned for 1.0.1.0

7EC020.61-2 can be changed against other CPU's

7EC021.60-1**Hardware**

ID#400066092 : known problem since unbekannt, correction planned for 1.0.2.0

ModbusTCP Master works now with this module

ID#400052453 : known problem since V3.00.81.18, correction planned for 1.0.1.0

7EC021.60-1 can be changed against other CPU's

7EC021.61-2**Hardware**

ID#400052453 : known problem since V3.00.81.18, correction planned for 1.0.1.0

7EC021.61-2 can be changed against other CPU's

7XV124.50-62**Hardware**

ID#400065007 : new function planned for 1.1.0.0

Outputs can be transfered in "packed" mode

7XX419L.50-1**Hardware**

ID#233320 : new function planned for 1.1.0.0

Support for the module 7XX419L.50-1

80PS080X3.10-01**Hardware**

ID#400060553 : known problem since unbekannt, correction planned for 1.0.1.0

80PS080X3 - Additional 24 VDC output problems

Output Voltage of 24 VDC not constant.

80SD100XD.C044-01**General**

ID#243225 : known problem since unbekannt, correction planned for 1.5.2.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#400046062 : known problem since unbekannt, correction planned for 1.5.2.0

Reference pulse on channel two doesn't work

Short circuit protection implemented

80SD100XD.C04X-13**General**

ID#243230 : known problem since unbekannt, correction planned for 1.4.0.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#400056193 : known problem since V3.00.81.18, correction planned for 1.4.0.2

Special character were deleted in channel description

80SD100XD.C0XX-01**General**

ID#243235 : known problem since unbekannt, correction planned for 1.5.1.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

80SD100XD.C0XX-21

General

ID#243310 : known problem since unbekannt, correction planned for 1.3.2.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#245865 : known problem since unbekannt, correction planned for 1.3.2.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

ID#400049657 : known problem since unbekannt, correction planned for 1.3.2.0

Current peaks at switch on of the controller at channel 2

80SD100XS.C04X-01

General

ID#243370 : known problem since unbekannt, correction planned for 1.4.1.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#245875 : known problem since unbekannt, correction planned for 1.4.1.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

80SD100XS.C04X-13

General

ID#243380 : known problem since unbekannt, correction planned for 1.3.0.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#230710 : new function planned for 1.2.0.0

SDC support for the module 80SD100XS.C04X-01

ID#245880 : known problem since unbekannt, correction planned for 1.3.0.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

80SD100XS.C0XX-01

General

ID#243385 : known problem since unbekannt, correction planned for 1.4.1.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#245885 : known problem since unbekannt, correction planned for 1.4.1.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

80VD100PD.C000-01**Hardware**

ID#259090 : new function planned for 1.0.1.0

Extensions for AS 3.0.90 for the module 80VD100PD.C000-01

Hardware

ID#263030 : known problem since unbekannt, correction planned for 1.0.2.0

Support for the ACP μ Servo at AS 3.0.81.x.

Reconstitute of the support for the 80VD100PD.C000-01 at AS 3.0.81.x.

80VD100PD.C022-01**Hardware**

ID#259085 : new function planned for 1.0.2.0

Extensions for AS 3.0.90 for the module 80VD100PD.C022-01

Hardware

ID#263025 : known problem since unbekannt, correction planned for 1.0.3.0

Support for the ACP μ Servo at AS 3.0.81.x.

Reconstitute of the support for the 80VD100PD.C022-01 at AS 3.0.81.x.

80VD100PS.C02X-01**Hardware**

ID#260260 : known problem since unbekannt, correction planned for 1.0.0.1

Support for the module 80VD100PS.C02X-01

Hardware

ID#263020 : known problem since unbekannt, correction planned for 1.0.1.0

Support for the ACP μ Servo at AS 3.0.81.x.

Reconstitute of the support for the 80VD100PS.C02X-01 at AS 3.0.81.x.

8AC112.60-1**Hardware**

ID#400016061 : known problem since 1.0.0.1, correction planned for 1.0.0.2

The AsIODiag library detects a discrepancy (plugged/configured), although the configured module is physically connected. (AR 02.95 or higher required!)

8AC114.60-1**Hardware**

ID#196270 : known problem since 1.0.0.0, correction planned for 1.0.0.1

The AsIODiag library detects a discrepancy (plugged/configured), although the configured module is physically connected. (AR 02.95 or higher required!)

8AC114.60-2**Hardware**

ID# 400048080, 400048192, 400048184 : known problem since ARSG4_3.01.6_F03.01, correction planned for 1.0.0.4

IOSuffix in HWC file added

<Parameter ID="IOSuffix" Value=":IO"/> has been added to the HWC file. If this entry does not exist, the NC manager reported the error 32244, followed by 64006.

8AC141.60-2**Hardware Management**

ID# 400054584, 400054504 : known problem since unbekannt, correction planned for 1.0.1.0

INA node number can be set in automation studio

8BAC0124.000-1**Hardware**

ID#262910 : new function planned for 1.0.0.2

Extension for ACOPOSmulti65

8BVS2SAFE1-1**Firmware**

ID#237625 : new function planned for 1.4.0.0

Shutdown delay in case of PLK network error

The SafeMC Module is kept in "Operational" state for the time configured in the parameter "Shut Down delay in us" in case of a PLK connection error.

This allows the functional application to implement a defined shut down of the axis!

ID#226485 : new function planned for 1.4.0.0

Changes/ Features in Motion Safety Release 1.4

- New Safety Functions:

* Safely Limited Position (SLP),

* Safe Maximum Position (SMP) and

* Safe Homing

- Support of EnDat22 Functional Safety linear encoders

- If SMP and/or SMS are used and "SetPos Alive testing" is activated, the alive test must be done within 15min; otherwise the SafeMC Module will change to Functional Fail Safe State!

- Warnings are only sent by µP1

- Logging entries got defined Levels

8CVE28000HC00.00-1**Hardware**

ID#264685 : new function planned for 1.0.0.2

8CVE28000HC00.00-1, new POWERLINK Stack

New POWERLINK Stack with correction of rare errors during boot and and poll response chaining.

ID#246072 : new function planned for 1.0.0.1

8CVE28000HC00.00-1, new POWERLINK Stack

New POWERLINK Stack with correction of rare errors during boot and and poll response chaining.

ID#268875 : known problem since unbekannt, correction planned for 1.0.0.3

Display the module information under I/O Mapping in the AS 3.0.90

The module informations "Serial number, Module ID, Hardware variant and Firmware version" will be displayed under I/O mapping in the AS 3.0.90

8I64XXXXXX.00X-1**Hardware**

ID#263585 : solved problem, known since unbekannt, solved since V3.00.90.12

Extensions for AS 3.0.9.0

ID#256660 : new function planned for 1.3.0.0

To save data on the X2X bus the I/O mapping can be configured

ID#263205 : known problem since unbekannt, correction planned for 1.3.1.0

"Relay 02" instead of "Relay 02 state" in IO Description

ID#400067044 : known problem since 1.0.0.0, correction planned for 1.3.1.0

X64 Inverter does sometimes not work after a powerlink BC

ID# 400065557, 400069029 : known problem since unbekannt, correction planned for 1.3.1.0

On 8I0IF109.200-1 with rev. B5 the relay does not work in standalone mode

ID#400057134 : known problem since unbekannt, correction planned for 1.2.0.0

The boottime of X64 takes 8-45 seconds

ID#245955 : known problem since unbekannt, correction planned for 1.1.0.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

8V1010.00-2**Hardware**

ID#239085 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1010.50-2**Hardware**

ID#239090 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1016.00-2**Hardware**

ID#239095 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1016.50-2**Hardware**

ID#239100 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1022.00-2**Hardware**

ID#239105 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1045.00-2**Hardware**

ID#239110 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1090.00-2**Hardware**

ID#239115 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1180.00-2**Hardware**

ID#239120 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V128M.00-2**Hardware**

ID#239125 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1320.00-2**Hardware**

ID#239130 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

8V1640.00-2**Hardware**

ID#239135 : known problem since unbekannt, correction planned for 1.0.0.2

Correction of the german translation for "NC Mapping"

FBE.KEB.COMBIVERT**Hardware**

ID#253660 : solved problem, known since 1.0.6.0, solved since 1.0.6.2

Changes for firmware update

Changes according to the firmware update have been done. The CPU is now able to update the inverter at any time independent from the inverters configuration.

ID#220515 : new function since 1.0.6.0

Different OD-Entries are directly overtaken from the Host (DeviceType, VendorId, RevisionNumber and Serial Number)

ID#400037610 : known problem since unbekannt, correction planned for 1.0.6.1

Neue Firmwar

The Index 1018/3h will not be readed from the Base device during init.

X20AI1744**Hardware**

ID#256630 : new function planned for 1.2.0.0

New function model (multisample)

ID#261660 : known problem since unbekannt, correction planned for 1.2.3.0

Changes for AS3.0.90

ID#256670 : known problem since unbekannt, correction planned for 1.2.2.0

Extensions for AS 3.0.90

ID#400055356 : known problem since unbekannt, correction planned for 1.2.1.0

High EMC influences could be the reason for module fail, EMC immunity increased

ID#400054723 : known problem since nicht relevant, correction planned for 1.2.1.0

Value of the X20AI1744 is oscillating if several X20AI1744 are plugged side by side

X20AI1744-3**Hardware**

ID#400055356 : known problem since unbekannt, correction planned for 1.1.1.0

High EMC influences could be the reason for module fail, EMC immunity increased

ID#400054723 : known problem since nicht relevant, correction planned for 1.1.1.0

Value of the X20AI1744-3 is oscillating if several X20AI1744-3 are plugged side by side

ID#235630 : known problem since unbekannt, correction planned for 1.1.0.0

Improvement of the internal communication between ADC and I/O processor

X20AI2636**Hardware**

ID#262520 : new function since 1.0.0.1

Enhancement english online help

ID#229405 : new function planned for 1.0.0.1

Support X20AI2636

Support X20AI2636, first version

X20AI4636**Hardware**

ID#262525 : new function since 1.0.0.1

Enhancement english online help

ID#229410 : new function planned for 1.0.0.1

Support X20AI4636

Support X20AI4636, first version

X20AT2222**Hardware**

ID#400063839 : solved problem, known since 1.0.2.0, solved since 1.0.2.0

Missing IO mapping using SG3 CANIO corrected

X20BC0083**Firmware**

ID#247260 : solved problem, known since unbekannt, solved since 1.2.1.0

DNA runup upgraded

ID#245095 : solved problem, known since unbekannt, solved since 1.2.0.0

DNA support; Update behavior on X2X bus of the BC improved

- DNA support (Dynamic Node Allocation)
- faster updating of modules with big FW files on the X2X bus of the BC
- new objects: 20A3h and 2000h/9

X20BC1083**Firmware**

ID#246445 : solved problem, known since unbekannt, solved since 1.2.0.0

DNA support; Update behavior on X2X bus of the BC improved

- DNA support (Dynamic Node Allocation)
- faster updating of modules with big FW files on the X2X bus of the BC
- new objects: 20A3h and 2000h/9

Hardware

ID#268450 : known problem since 1.2.0.0, correction planned for 1.2.1.0

Netx and Powerlink error correction

- NetX correction of plug off/onf the Powerlinkwire by startup
- New hwc entries

ID#400072488 : known problem since 1.2.0.0, correction planned for 1.2.1.0

Profibus I/O data not transmitted when only output data is configured

If only output data is configured for a Profibus configuration (X20IF1061-1) then the I/O data is not transmitted on the bus. This problem only occurs when the Profibus master (X20IF1061-1) is connected to the X20BC1083.

Hardware 1.0.1.1

ID#236005 : solved problem, known since 1.1.0.0, solved since 1.1.0.1

X20 Bus Controller POWERLINK, 1x IF

X20 Bus Controller POWERLINK, 1x IF

X20BC8083**Firmware**

ID#246550 : solved problem, known since unbekannt, solved since 1.2.0.0

DNA support; Update behavior on X2X bus of the BC improved

- DNA support (Dynamic Node Allocation)
- faster updating of modules with big FW files on the X2X bus of the BC
- new objects: 20A3h and 2000h/9

X20BC8084**Firmware**

ID#265540 : solved problem, known since nicht relevant, solved since 1.2.0.0

Optimisation of Kabelredundancy (Link Selector) ; Update behavior on X2X bus improved

- optimisation of Kabelredundancy (Link Selector)
- faster updating of modules with big FW files on the X2X bus of the BC
- new objects: 20A3h, 2000h/9 and 20F0h/31

X20BR9300**Hardware**

ID#261385 : solved problem, known since 1.0.2.0, solved since 1.0.2.0

Spacer in I/O map display corrected

ID#260505 : solved problem, known since 1.0.1.0, solved since 1.0.1.0

Error correction in Channel description

Adverse Settings in the AS I/O configuration may cause an error on X2X

X20BT9100**Hardware**

ID#400061307 : solved problem, known since 1.0.1.0, solved since 1.0.1.0

Error correction in channel description

Adverse settings in the AS I/O configuration may cause an error on X2X

ID#260670 : new function since 1.0.2.0

Spacer in I/O map display corrected

X20CM1941**Hardware**

ID#257105 : known problem since unbekannt, correction planned for 1.1.1.2

Serial number will be displayed correctly

ID#400052686 : known problem since unbekannt, correction planned for 1.1.0.0

Duty Cycle of AB signal sporadically not correct

Due to a faulty implementation of the ABR-simulation there is the possibility of invalid AB signals (depending on the velocity).

X20CP1483**Hardware**

ID#230775 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#266100 : new function planned for 1.1.0.2

Enhancement status datapoint for I/O supply

ID#256995 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256850 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265805 : known problem since 1.0.16.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265705 : known problem since 1.0.16.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#400057319 : known problem since 1.0.16.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

ID#240370 : known problem since 1.0.15.0, correction planned for 1.0.16.0

FPGA Fitter upgrade

X20CP1483-1**Hardware**

ID#230780 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257000 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256855 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#227235 : new function planned for 1.1.0.2

Enhancement status datapoint for I/O supply

ID#265810 : known problem since 1.0.16.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265710 : known problem since 1.0.16.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#400057319 : known problem since 1.0.16.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

ID#240375 : known problem since 1.0.15.0, correction planned for 1.0.16.0

FPGA Fitter upgrade

X20CP1484

Hardware

ID#230785 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257005 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256860 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265815 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265715 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260870 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP1484-1

Hardware

ID#230790 : solved problem, known since 1.0.14.0, solved since 1.0.15.1

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257010 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256865 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265820 : known problem since 1.0.15.1, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265720 : known problem since 1.0.15.1, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260875 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.1, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP1485

Hardware

ID#229360 : solved problem, known since 1.0.15.0, solved since 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#228100 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257015 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256870 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265825 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265725 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#400057319 : known problem since 1.1.13.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP1485-1

Hardware

ID#234725 : solved problem, known since 1.0.15.0, solved since 1.0.15.1

LinkOK Datapoint available.

ID#257020 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#265830 : known problem since 1.0.15.1, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265730 : known problem since 1.0.15.1, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260880 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.1, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP1486

Hardware

ID#230795 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257025 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256875 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265835 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265735 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260885 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP3484

Hardware

ID#230800 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257030 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256880 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265840 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265740 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260890 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP3484-1

Hardware

ID#230805 : solved problem, known since 1.0.14.0, solved since 1.0.15.1

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257035 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256885 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265845 : known problem since 1.0.15.1, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265745 : known problem since 1.1.0.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260895 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.1, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP3485

Hardware

ID#228110 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257040 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256890 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265850 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265750 : known problem since 1.1.0.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260900 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP3485-1

Hardware

ID#228530 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#257045 : new function planned for 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256895 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265855 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265755 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260905 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20CP3486

Hardware

ID#230810 : solved problem, known since 1.0.14.0, solved since 1.0.15.0

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#240275 : new function since 1.1.0.2

POWERLINK: Support for 100 Mbit full duplex in Ethernet operating mode.

ID#256900 : new function planned for 1.1.0.2

POWERLINK: LinkOK data point added.

ID#265860 : known problem since 1.0.15.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265760 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#260910 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: L/A LED only shows Link and not Activity -> corrected.

ID#400057319 : known problem since 1.0.15.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20DC1196

Hardware

ID#251590 : solved problem, known since 1.0.1.0, solved since 1.0.1.0

Enhancement Online Help

X20DI4375

Hardware

ID#246260 : known problem since unbekannt, correction planned for 1.0.0.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

X20DI6373

Hardware

ID#225410 : solved problem, known since 1.0.0.0, solved since 1.0.0.1

Support for Fieldbusdesigner

ID#243180 : known problem since unbekannt, correction planned for 1.0.0.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

X20DI9371

Hardware

ID#400054614 : new function since 1.0.1.0

Enhancement packed data point for inputs

X20DI9372

Hardware

ID#400054614 : new function since 1.0.1.0

Enhancement packed data point for inputs

X20DO2633

Hardware

ID#220755 : new function planned for 1.0.0.1

Support X20DO2633

X20DO4613

Hardware 1.0.0.3

ID#220745 : new function planned for 1.0.0.3

Support of X20DO4613

X20DO4633**Hardware**

ID#220750 : new function planned for 1.0.0.1

Support X20DO4633

X20DO8232**Hardware**

ID#256450 : solved problem, known since 1.0.1.1, solved since 1.0.1.1

Increase interference immunity of output status feedbacks

X20DS1119**Hardware**

ID#400055350 : solved problem, known since 1.1.2.2, solved since 1.1.2.2

Enhancement length check of I/O block size during Build

ID#251595 : solved problem, known since 1.1.2.1, solved since 1.1.2.1

Enhancement Online Help

X20DS1319**Hardware**

ID#400055350 : solved problem, known since 1.1.2.2, solved since 1.1.2.2

Enhancement length check of I/O block size during Build

ID#251605 : solved problem, known since 1.1.2.1, solved since 1.1.2.1

Enhancement Online Help

X20DS4387**General**

ID#238970 : new function planned for 1.0.2.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#269070 : solved problem, known since 1.0.3.0, solved since 1.0.3.0

Extensions and Bugfixes

- When a channel was operated in SIO mode, the connected device couldn't be started properly.
- Error handling during boot configuration improved.

ID#217795 : solved problem, known since 1.0.1.1, solved since 1.0.2.1

4x IO-Link Interface, Optimisation master cycle time calculation and correction in register ParameterCtrlIn

4x IO-Link Interface, Optimisation master cycle time calculation and correction in register ParameterCtrlIn

ID#254320 : new function since 1.0.2.2

Optimizations and extensions

Synchronisation of IO-Link cycle to X2X cycle improved.
Mode "FAST OPERATE" implemented.

Hardware 1.0.2.1

ID#400034176 : solved problem, known since 1.0.1.1, solved since 1.0.2.1

4x IO-Link Interface, Optimisation master cycle time calculation and correction in register ParameterCtrlIn

4x IO-Link Interface, Optimisation master cycle time calculation and correction in register ParameterCtrlIn

X20HB8815

Hardware

ID#231465 : new function since 1.0.0.2

First version.

X20IF1020**Hardware**

ID#247755 : solved problem, known since 1.1.3.0, solved since 1.1.3.0

Error correction in the FPGA UART implementation

X20IF1030**Hardware**

ID#247765 : solved problem, known since 1.1.3.0, solved since 1.1.3.0

Error correction in the FPGA UART implementation

X20IF1041-1**Hardware**

ID#259320 : new function since 1.0.2.0

Vendor ID changed

Module identifies with B+R Vendor ID now

ID#240405 : new function since 1.0.3.0

X20 Interface CANopen Master, Configuration of netX cycle time

X20 Interface CANopen Master, Configuration of netX cycle time.

ID#400069675 : known problem since 1.1.0.1, correction planned for 1.1.0.3

CANopen master doesn't write output data to all slaves

When using a special configuration with several CANopen slaves the output data is only written to the first slave.

Hardware V2.4.5.1

ID#400051057 : solved problem, known since 1.0.1.0, solved since 1.0.2.0

Interface module CANopen master: Output data not written by all CANopen slaves

Interface module CANopen master: Output data not written by all CANopen slaves

Hardware 1.0.1.0

ID#235825 : new function since 1.0.1.0

Interface module CANopen master, first version

Interface module CANopen master, first version

X20IF1043-1**Hardware**

ID#257350 : new function since 1.0.2.0

Vendor ID changed

Module identifies with B&R Vendor ID now

Caution! This upgrade might require changed settings on the master using the latest EDS file.

ID#240710 : new function since 1.0.2.0

X20 Interface CANopen Slave, Configuration of netX cycle time

X20 Interface CANopen Slave, Configuration of netX cycle time.

Hardware 1.0.1.0

ID#235830 : new function since 1.0.1.0

Interface module CANopen slave, first version

Interface module CANopen slave, first version

X20IF1051-1**Hardware**

ID#257360 : new function since 1.0.2.0

Vendor ID changed

Module notifies now with the B&R Vendor ID

ID#240715 : new function since 1.0.2.0

X20 Interface Device Net Master, Configuration of netX cycle time

X20 Interface Device Net Master, Configuration of netX cycle time.

Hardware 1.0.1.0

ID#235835 : new function since 1.0.1.0

Interface module DeviceNet master, first version

Interface module DeviceNet master, first version

X20IF1053-1**Hardware**

ID#228290 : new function since 1.0.2.0

Vendor ID changed

Module identifies with B&R Vendor ID now

Caution! This upgrade might require changed settings on the master using the latest EDS file (electronic keying).

Hardware 1.0.2.0

ID#240720 : new function since 1.0.2.0

X20 Interface Device Net Slave, Configuration of netX cycle time

X20 Interface Device Net Slave, Configuration of netX cycle time.

Hardware 1.0.1.0

ID#235840 : new function since 1.0.1.0

Interface module DeviceNet slave, first version

Interface module DeviceNet slave, first version

X20IF1061-1**Hardware**

ID#257410 : new function since 1.0.2.0

Vendor ID changed

Module notifies now with the B&R Vendor ID

ID#240725 : new function since 1.0.2.0

X20 Interface PROFIBUS DP Master, Configuration of netX cycle time

X20 Interface PROFIBUS DP Master, Configuration of netX cycle time.

Hardware 1.0.1.1

ID#237600 : new function since 1.0.1.1

Interface module PROFIBUS DP Master, new online help

Interface module PROFIBUS DP Master, new online help

Hardware 1.0.1.0

ID#235845 : new function since 1.0.1.0

Interface module PROFIBUS Master, first version

Interface module PROFIBUS Master, first version

X20IF1063-1**Hardware**

ID#257425 : new function since 1.0.2.0

Vendor ID changed

Module identifies with B&R Vendor ID now

Caution! This upgrade requires changed settings on the master using the latest GSD file.

ID#240730 : new function since 1.0.2.0

X20 Interface PROFIBUS DP Slave, Configuration of netX cycle time

X20 Interface PROFIBUS DP Slave, Configuration of netX cycle time.

Hardware 1.0.1.1

ID#237610 : new function since 1.0.1.1

Interface module PROFIBUS DP Slave, new online help

Interface module PROFIBUS DP Slave, new online help

Hardware 1.0.1.0

ID#235850 : new function since 1.0.1.0

Interface module PROFIBUS Slave, first version

Interface module PROFIBUS Slave, first version

X20IF1082**Hardware**

ID#205545 : new function since 1.2.0.2

POWERLINK: LinkOK data point added.

ID#256905 : new function planned for 1.2.0.2

POWERLINK: LinkOK data point added.

ID#265910 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265865 : known problem since 1.1.12.1, correction planned for 1.2.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265765 : known problem since 1.1.0.0, correction planned for 1.2.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256935 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.1.12.1, correction planned for 1.2.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

ID#400046576 : known problem since 1.1.9.0, correction planned for 1.1.12.1

Correction of interchanged LinkOK data points in AS IO mapping

X20IF1082-2**Hardware**

ID#234660 : solved problem, known since 1.0.1.0, solved since 1.0.2.0

New POWERLINK firmware V106

POWERLINK V2 chained stations: Reconnecting failed stations improved.
LinkOK Datapoint in Operating Mode 'Ethernet' available.

ID#233570 : solved problem, known since 1.0.1.0, solved since 1.0.2.0

Correction of interchanged LinkOK data points in AS IO mapping

ID#265915 : known problem since 1.0.2.0, correction planned for 1.1.0.2

POWERLINK V2: If the Ready-Flag was canceled on the network, the ModuleOK was not cleared.

ID#265870 : known problem since 1.0.2.0, correction planned for 1.1.0.2

Warning 32168 "POWERLINK V2: Invalid frame format" on iCN with "Chained Station" on the same network

Error correction: When an iCN is used in the same POWERLINK network with a "Chained Station", there may be warnings 32168 in the logger. The reason for this warning is that the sync response frames that are used to measure the timing of the "Chained Station" are not recognized by the iCN.

ID#265770 : known problem since 1.0.2.0, correction planned for 1.1.0.2

POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.

ID#256945 : known problem since 1.0.2.0, correction planned for 1.1.0.2

POWERLINK: The net time is not always transferred correctly to the application.

ID#400057319 : known problem since 1.0.2.0, correction planned for 1.1.0.2

POWERLINK: In controlled node mode, the I/O mapping was not applied when the manager was restarted.

X20IF1091

Hardware

ID#240765 : new function since 1.0.4.0

Enhancement Nettime data point

X20IF10A1-1

Hardware

ID#250250 : new function since 1.0.1.0

Enhancement english online help for AS

X20IF10D1-1

Hardware

ID#257440 : new function since 1.0.2.0

Vendor ID changed

Module notifies now with the B&R Vendor ID

ID#268245 : known problem since 1.1.0.0, correction planned for 1.1.1.0

Input data of Ethernet/IP slaves is no longer being transferred

X20IF10D3-1

Hardware

ID#257455 : new function since 1.0.2.0

Vendor ID changed

Module identifies with B&R Vendor ID now

Caution! This upgrade might require changed settings on the master (electronic keying).

ID#400059600 : known problem since unbekannt, correction planned for 1.1.1.0

Ethernet IP communication doesn't work via explicit messaging

X20IF10E1-1

Hardware

ID#257460 : new function since 1.0.2.0

Vendor ID changed

Module notifies now with the B&R Vendor ID

ID#240735 : new function since 1.0.2.0

X20 Interface PROFINET RT Master, Configuration of netX cycle time

X20 Interface PROFINET RT Master, Configuration of netX cycle time.

Hardware 1.0.1.1

ID#237545 : new function since 1.0.1.1

Interface module PROFINET RT Controller, new online help

Interface module PROFINET RT Controller, new online help

Hardware 1.0.1.0

ID#235795 : new function since 1.0.1.0

Interface module PROFINET RT Controller, first version

Interface module PROFINET RT Controller, first version

X20IF10E3-1**Hardware**

ID#257465 : new function since 1.0.2.0

Vendor ID changed

Module identifies with B&R Vendor ID now

Caution! This upgrade requires changed settings on the master using the latest GSD file.

ID#240740 : new function since 1.0.2.0

X20 Interface PROFINET RT Slave, Configuration of netX cycle time

X20 Interface PROFINET RT Slave, Configuration of netX cycle time.

Hardware 1.0.1.1

ID#237570 : new function since 1.0.1.1

Interface module PROFINET RT Device, new online help

Interface module PROFINET RT Device, new online help

Hardware 1.0.1.0

ID#235805 : new function since 1.0.1.0

Interface module PROFINET RT Device, first version

Interface module PROFINET RT Device, first version

X20MM2436**Hardware**

ID#400062572 : known problem since unbekannt, correction planned for 1.1.1.0

MM2436 Slow Decay mode switch off the outputs

X20MM3332**Hardware**

ID#243190 : known problem since unbekannt, correction planned for 1.0.0.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

X20MM4331**General**

ID#243195 : known problem since unbekannt, correction planned for 1.0.1.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

X20MM4456**General**

ID#243200 : known problem since unbekannt, correction planned for 1.0.2.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#400064834 : known problem since unbekannt, correction planned for 1.1.0.0

The incremental counters of X20MM4456 can be reset

The 4 incremental counters of X20MM4456 can be reset individually and synchronously to "0"

ID#400057091 : known problem since unbekannt, correction planned for 1.1.0.0

Support for operation with bus coupler

ID#245845 : known problem since unbekannt, correction planned for 1.0.2.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

ID#400049478 : known problem since unbekannt, correction planned for 1.0.2.0

The module doesn't report an overtemperature error at low ambient temperatures (7-10°C)

ID#233790 : known problem since unbekannt, correction planned for 1.0.2.0

Dither function works now also at lower frequencys and lower PWM duration without problems

ID#204675 : known problem since unbekannt, correction planned for 1.0.1.0

At modules with revision <=A6 the offset from the current measurement was corrected

X20PS2100**Hardware**

ID#400061307 : solved problem, known since 1.0.2.0, solved since 1.0.2.0

Error correction in Channel description

Adverse Settings in the AS I/O configuration may cause an error on X2X

ID#227885 : new function planned for 1.0.2.0

Extension in IO-Mapping for SG3 CanIO

Datapoints for Bus current and Bus voltage added

X20PS2110**Hardware**

ID#400061307 : solved problem, known since 1.0.2.0, solved since 1.0.2.0

Error correction in channel description

Adverse settings in the AS I/O configuration may cause an error on X2X

ID#227890 : new function planned for 1.0.2.0

Extension in IO-Mapping for SG3 CanIO

Datapoint for Bus voltage added

X20PS3300**Hardware**

ID#400061307 : solved problem, known since 1.0.1.0, solved since 1.0.1.0

Error correction in channel description

Adverse settings in the AS I/O configuration may cause an error on X2X

X20PS9400**Hardware**

ID#400061307 : solved problem, known since 1.0.1.0, solved since 1.0.1.0

Error correction in channel description

Adverse settings in the AS I/O configuration may cause an error on X2X

X20SC2432**Firmware**

ID#225435 : new function since 1.3.0.96

Safety Release 1.4

- SI: one can configure the channel that shall be used as pulse source for testpulse with mode "internal" (see manual)
- different levels for logger entries: "Info", "Warning" or "Error" (AR B3.05 required)
- logger entries with level "Info" or "Warning" are sent by only 1 of the 2 safety processors to reduce the number of messages
- X2X diagnostics data points (AR 3.08 required)

X20SI2100**Firmware**

ID#180810 : new function planned for 1.4.0.0

see history of module X20SI4100

see history of module X20SI4100

X20SI4100**Firmware**

ID#225420 : new function since 1.3.0.96

Safety Release 1.4

- one can configure the channel that shall be used as pulse source for testpulse with mode "internal" (see manual)
- different levels for logger entries: "Info", "Warning" or "Error" (AR B3.05 required)
- logger entries with level "Info" or "Warning" are sent by only 1 of the 2 safety processors to reduce the number of messages
- X2X diagnostics data points (AR 3.08 required)

X20SI9100**Firmware**

ID#400056193 : solved problem, known since V3.00.81.18, solved since 1.4.0.0

Projects with hardware modules that contain μ in their channel descriptions can not be build in the Chinese version of Windows.

The following error is generated when building projects that contain μ in the channel descriptions:
Required white space was missing.
Error: on line 79, position 219 in "(null)".

X20SL8001**Firmware**

ID#251380 : solved problem, known since unbekannt, solved since 1.4.1.1

SL-to-SL connection

Is not limited to 8 SAFEBOOL anymore (requires AS V3.0.90 and AR V3.08)

ID#248160 : solved problem, known since 1.3.0.102, solved since 1.3.0.105

Problems when using new AR version in application with a lot of powerlink nodes.

One could face problems when using actual AR version (e.g. V3.06) in applications with a lot of powerlink nodes.

ID#245315 : solved problem, known since 1.3.0.97, solved since 1.4.0.1

sporadic reset problems

It happened sporadically that the SafeLOGIC didn't response after a reset.
It happened sporadically that the SafeLOGIC was resetted in case of an AR restart.

ID#240700 : solved problem, known since , solved since 1.3.0.105

Failsafe after reset

With some projects the SafeLOGIC sporadically didn't boot correctly after an automatic reset (after FW-ACK or application download).

ID# 400043442, 400041050 : solved problem, known since 1.3.0.0, solved since 1.3.0.106

Error "Unexpected FSM event (00) occurred."

Error "Unexpected FSM event (00) occurred." (108074/112170) could happen sporadically in case of AR warm restart.

ID#223460 : solved problem, known since 1.2.0.3, solved since 1.3.0.105

online communication through B&R-CPU

New parameters in I/O Configuration of SafeLOGIC: "SafeDESIGNER to SafeLOGIC communication"
Therefore the SafeLOGIC can be accessed over a TCP port of AR (no IP route required anymore).
(requires AR A3.04 or higher !)

ID#217100 : solved problem, known since 1.2.0.0, solved since 1.3.0.0

SafeKEY acknowledge after firmware update

After a firmware update (from Safety Release 1.1 to Safety Release 1.2) a SafeKEY acknowledgement was requested although the SafeKEY had not been changed.

ID#226760 : new function since 1.3.0.106

operate SL via EPL and additional logger entries.

Possibility to operate the SafeLOGIC (e.g. FWACK) via EPL object dictionary (see manual).
Additional logger entries when pressing the SafeLOGIC ENTER button.

ID#400041388 : new function since 1.3.0.108

format SafeKEY via operating elements

Formatting the SafeKEY can be done via the operating elements of the SafeLOGIC.

ID#225445 : new function since 1.3.0.106

improvements logger entries

- different levels for logger entries: "Info", "Warning" or "Error" (AR B3.05 required)
- logger entries with level "Info" or "Warning" are sent by only 1 of the 2 safety processors to reduce the number of messages.

ID#219960 : new function since 1.3.0.106

external machine options

Possibility to define 512 additional machine options via a file.

ID#176990 : new function since 1.3.0.105

SafeKEY-LED was not activated for LED test.

SafeKEY-LED was not activated for LED test.

ID#226755 : new function planned for 1.4.0.0

Download application from functional CPU

Possibility to download the SafeDESIGNER application from functional CPU to SafeLOGIC.

ID#400034396 : known problem since 1.2.0.3, correction planned for 1.4.0.0

reset after SafeKEY format

SafeLOGIC will be resetted automatically after a SafeKEY format.

ID#198515 : known problem since 1.1.3.0, correction planned for 1.3.0.0

provide temperature

Temperature is provided at POWERLINK object 0x2000/0x12 (data type: INT; scale: 0.1°C).

Firmware 1.3.0.122

ID#233580 : known problem since 1.2.0.3, correction planned for 1.4.0.0

SL-to-SL connection

The parameters of a safe SL-to-SL connection can be changed.

X20SM1426

General

ID#243210 : known problem since unbekannt, correction planned for 1.2.0.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#245855 : known problem since unbekannt, correction planned for 1.2.0.2

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

X20SM1436**Hardware**

ID#267990 : known problem since unbekannt, correction planned for 1.2.2.0

The X20SM1436 doesn't switch in switched on with a customer motor at ramp mode.

ID#267135 : known problem since , correction planned for 1.2.2.0

Problem with the endswitch-reset at ramp mode.

X20SO2110**Firmware**

ID#180850 : new function planned for 1.4.0.0

see history of module X20SO4120

see history of module X20SO4120

X20SO2120**Firmware**

ID#180845 : new function planned for 1.4.0.0

see history of module X20SO4120

see history of module X20SO4120

X20SO4110**Firmware**

ID#180835 : new function planned for 1.4.0.0

see history of module X20SO4120

see history of module X20SO4120

X20SO4120**Firmware**

ID#225425 : new function since 1.3.0.94

Safety Release 1.4

- different levels for logger entires: "Info", "Warning" or "Error" (AR B3.05 required)

- logger entries with level "Info" or "Warning" are sent by only 1 of the 2 safety processors to reduce the number of messages

- X2X diagnostics data points (AR 3.08 required)

X20XC0201**Hardware**

ID#163760 : known problem since 1.0.0.0, correction planned for 1.0.1.0

New Firmware V21

X20XC0202**Hardware**

ID#163750 : known problem since 1.0.0.0, correction planned for 1.0.1.0

New Firmware V21

X67AT1322**Hardware**

ID#400060234 : solved problem, known since 1.0.0.1, solved since 1.0.0.1

Status input channel description corrected for SGC targets

X67BC8321-1**Firmware**

ID#246660 : solved problem, known since unbekannt, solved since 1.2.0.0

DNA support; Update behavior on X2X bus of the BC improved

- DNA support (Dynamic Node Allocation)
- faster updating of modules with big FW files on the X2X bus of the BC
- new objects: 20A3h and 2000h/9
- support for Simulation device added

Hardware

ID# 400031208, 400032412, 400032783 : solved problem, known since V2.7.0.0017 SP10, solved since 1.2.0.0

Correct display of local I/O module in HW-tree

X67BC8321.L12**Firmware**

ID#246365 : solved problem, known since unbekannt, solved since 1.2.1.0

DNA support; Update behavior on X2X bus of the BC improved

- DNA support (Dynamic Node Allocation)
- faster updating of modules with big FW files on the X2X bus of the BC
- new objects: 20A3h and 2000h/9
- support for Simulation device added

Hardware

ID# 400052241 : solved problem, known since 1.0.1.0, solved since 1.0.1.0

Correction of X67BCOnboard Compatible Code

ID#238900 : new function since 1.0.1.0

Extensions

- Support of DNA
- Simulation device in .hwc added

X67BC8331**Firmware**

ID#246690 : solved problem, known since unbekannt, solved since 1.2.0.0

DNA support; Update behavior on X2X bus of the BC improved

- DNA support (Dynamic Node Allocation)
- faster updating of modules with big FW files on the X2X bus of the BC
- new objects: 20A3h and 2000h/9
- support for Simulation device added

X67BC8513.L12**Hardware**

ID#228415 : new function planned for 1.2.1.0

Support X67BC8513.L12

Support X67BC8513.L12, first version

X67DC1198**General**

ID#237195 : new function planned for 1.0.3.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

Hardware

ID#400055350 : solved problem, known since 1.0.3.1, solved since 1.0.3.1

Enhancement length check of I/O block size during Build

X67DC2322**unbekannt**

ID#400050103 : known problem since unbekannt, correction planned for 1.0.1.0

Under certain conditions the resolver channel 2 doesn't work after restart

X67DM1321.L08**Hardware**

ID#400048373 : solved problem, known since 1.1.0.0, solved since 1.1.0.0

Correction of X67BCOnboard Compatible Codes to X67BCOnboardL08

X67DM1321.L12**Hardware**

ID#242860 : solved problem, known since 1.1.1.0, solved since 1.1.1.0

Correction of X67BCOnboard Compatible Code

The new Compatible Code "X67BCOnboardL12" caused some problems in combination with the X67BC8321.L12

ID#239470 : solved problem, known since 1.1.0.0, solved since 1.1.0.0

Correction of X67BCOnboard Compatible Codes to X67BCOnboardL12

X67MM2436**Hardware**

ID#400069673 : known problem since unbekannt, correction planned for 1.0.1.0

X67MM2436 on CANIO Controller leads to malfunction of subsequent modules -> Repair by means of correction of erroneous HWC-entry

ID#177375 : known problem since V2.6.0.0012 SP02, correction planned for 1.0.0.1

HWC file has to be better documented

4-Quadrant-Mode was implemented

X67SC4122.L12**Firmware**

ID#235610 : solved problem, known since 1.3.1.0, solved since 1.3.1.95

Safety Release 1.4

- Module can be used with Safety Release 1.4
- X2X diagnostics data points (AR 3.08 required)

Hardware

ID#261780 : known problem since 1.40, correction planned for 1.4.0.3

Increase of minimum load to 12mA

The minimum load was increased to 12mA in the documentationErhöhung der Mindestlast auf 12mA

X67SM2436**Hardware**

ID#256440 : known problem since unbekannt, correction planned for 1.1.1.2

Modul informations were not longer shown

Modul informations weren't shown for Automation Runtime versions > AR A3.08. This has been corrected.

ID#255900 : known problem since unbekannt, correction planned for 1.1.1.1

Customer-specific expansion of hardware description file

This upgrade has no impact on the Automation Studio and the standard version of the FieldbusDESIGNER

ID#400043902 : known problem since unbekannt, correction planned for 1.1.1.0

X67SM2436 changes without problems in the "Switched On" state

X67SM4320**Hardware**

ID# 400057799 : known problem since unbekannt, correction planned for 1.0.5.0

X67SM4320 works on SGC-CPU

ID#194030 : known problem since unbekannt, correction planned for 1.0.4.0

Correction: Reference on stall works also with HW Rev >= B5 of X67SM4320

X67UM6342**unbekannt**

ID#263095 : known problem since nicht relevant, correction planned for 1.2.0.0

implementation of do readback