B&R Revision Information

Automation Runtime SG4 M4.01 (4.01.13)

08−Nov−2013

Contents

B&R Revision Information (08.11.2013)
Automation Runtime SG4 M4.01 (4.01.13)

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

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Requests and problems by version

ID	valuation	solved since	known since	Description
400105391	Problem	–	ARSG4_4.05.2_B04.05	SDM via HTML does not show SNTP server information
400117356	Problem	–	ARSG4_4.02.18_R04.02	Loss of remanent PVs on simultaneous failure of an I/O module and power failure
400093463	Problem	–	ARSG4_4.01.4_D04.01	Error 32280 at ACOPOS with 8AC114.60−2 when using PRC option only on some
400081950	Problem	–	ARSG4_4.00.22_V04.00	xmlReadNextNode returns Error 33818 whern there are characters following the XML End tag.
400109321	Problem	–	ARSG4_3.09.9_I03.09	String literals with $ are incorrectly interpreted with POWERLINK CN initialization values.
400077759	Problem	–	ARSG4_3.09.7_G03.09	POWERLINK input data toggels on multiplexed iCN if multiplex slot is automatically calculated
400101933	New function	–	ARSG4_3.09.7_G03.09	AsHttp library available
400095563	Problem	–	ARSG4_3.09.5_E03.09	Static Routing via POWERLINK NAT Subnet does not work
400054890	Problem	–	ARSG4_3.06.22_V03.06	Unique error number if X2X Link node number switch is invalid
400103036	Problem	ARSG4_4.01.9_I04.01	ARSG4_4.01.7_G04.01	SdmSystemDump function block not generating a system dump in ARwin
327590	Problem	ARSG4_4.01.9_I04.01	ARSG4_3.09.5_E03.09	Firmware update of POWERLINK X2XLink Buscontroller in V1 via SDO
400103077	Problem	ARSG4_4.01.9_I04.01	ARSG4_3.09.3_C03.09	Hardware status on the SDM start page shows errors even though all nodes of the hardware tree are OK.
400105760	Problem	ARSG4_4.01.9_I04.01	ARSG4_3.07.14_N03.07	Overloading tasks, which include variables that are used by a running VC terminal causes a page fault in AR or leads to a memory problem
400085166	Problem	ARSG4_4.01.8_H04.01	PVI3.00.00.3119	Variables can no longer be read via PVI/INA2000
400099872, 400100767	Problem	ARSG4_4.01.8_H04.01	ARSG4_4.02.11_K04.02	Watchdog occurs, if target is not reachable.
400098787	Problem	ARSG4_4.01.8_H04.01	ARSG4_3.09.5_E03.09	X20CS1070 CAN driver correction
400083869	New function	ARSG4_4.01.7_G04.01	ARSG4_4.01.7_G04.01	Maximum value of SRAM used for remanent PVs on PP500 is too low.
400099231	Problem	ARSG4_4.01.7_G04.01	ARSG4_4.01.5_E04.01	The snmpV1Get() function block in the AsSnmp library doesn't work with AR 4.xx if several variables should be read out simultaneously.
400088630	Problem	ARSG4_4.01.7_G04.01	ARSG4_4.01.5_E04.01	The internal events that are triggered by the suspend and resume of tasks will not cause the warning 24807 anymore.
400092484	Problem	ARSG4_4.01.7_G04.01	ARSG4_4.01.4_D04.01	Longer boot times caused by no DMA access to CF
400098685	Problem	ARSG4_4.01.7_G04.01	ARSG4_3.09.6_F03.09	AR OPC: Callback not sent for value changes after a "Write"
400092027	Problem	ARSG4_4.01.7_G04.01	ARSG4_3.09.5_E03.09	Connection between SL controller and SafeIO routed via iCN not working when the iCN is started prematurely
400096344	Problem	ARSG4_4.01.7_G04.01	ARSG4_3.09.5_E03.09	CfgSetWebMimeType() behaves unexpectedly
400093522	Problem	ARSG4_4.01.7_G04.01	ARSG4_3.09.4_D03.09	IOPCServer::RemoveGroup with bForce == TRUE doesn't work
400090254	Problem	ARSG4_4.01.7_G04.01	ARSG4_3.09.4_D03.09	Cyclic log book entries from the CANopen master can lead to a cycle time violation on the CPU.
400092904	New function	ARSG4_4.01.7_G04.01	ARSG4_3.08.22_V03.08	ARwin shuts down before being uninstalled
400095750	Problem	ARSG4_4.01.7_G04.01	ARSG4_3.07.5_E03.07	AsIOTimeStamp() does not return time stamps from the next system cycle any more
400045146, 400092705	Problem	ARSG4_4.01.7_G04.01	ARSG4_3.01.4_D03.01	IOPCServer::RemoveGroup with bForce == TRUE doesn't work
400095305	Problem	ARSG4_4.01.6_F04.01	ARSG4_4.02.11_K04.02	Transferring safety application doesn't work if POWERLINK MTU > 500 bytes
400094368	Problem	ARSG4_4.01.6_F04.01	ARSG4_4.01.5_E04.01	Access to CompactFlash blocks EPL
400092311	Problem	ARSG4_4.01.6_F04.01	ARSG4_4.01.4_D04.01	see main entry
400090142	Problem	ARSG4_4.01.6_F04.01	ARSG4_4.00.22_V04.00	Updated AS text for Error 30257
400094656	Problem	ARSG4_4.01.6_F04.01	ARSG4_3.09.4_D03.09	The CPU doesn't boot if a CANopen slave doesn't have either Heartbeat or Lifeguarding configured.
400088880	Problem	ARSG4_4.01.6_F04.01	ARSG4_3.09.4_D03.09	AR OPC server: Errors when writing strings
400083869	New function	ARSG4_4.01.5_E04.01	V3.00.90.14	Maximalwert des verwendbaren SRAMs für remanente PVs am PP500 ist zu klein (ARwin)
287047	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.02.4_D04.02	POWERLINK MTU set to CN
400091356	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.01.4_D04.01	A file copy via CIFS with ARwin AR4.0 takes much more longer (~10 times) than with previous versions.
400087389, 400084807, 400088862	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.01.3_C04.01	CF change detected at every boot
400088482, 400088431, 400089890, 400088943	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.01.3_C04.01	Warning 33301 when starting ARwin
400079165	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.01.3_C04.01	Error 30285 NetX Card failed code 0x8044 or 0x8048 on X20BC1083
400086895, 400088050,	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.01.3_C04.01	Error 20709 when sending a file via FTP with AR 4.0

400090204				
400080058	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.01.1_A04.01	Warning 30298 in logbook when an 8AC114.60−2 is configured as a chained station
400083240	New function	ARSG4_4.01.5_E04.01	ARSG4_4.00.22_V04.00	Idle task execution should be configurable for the ARsim.
400086510	Problem	ARSG4_4.01.5_E04.01	ARSG4_4.00.22_V04.00	POWERLINK: Accelerated asynchronous access to NetX downstream from POWERLINK bus controller
400078517	New function	ARSG4_4.01.5_E04.01	ARSG4_4.00.22_V04.00	AsXml: The AsXml library converts all the characters of an .xml file to UTF−8.
400090441	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.09.4_D03.09	POWERLINK V2: openSafety connection including several interfaces did not work on iCN after restart of MN
400085428	New function	ARSG4_4.01.5_E04.01	ARSG4_3.09.3_C03.09	Warning 20936 fills the logboo
291357	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.09.3_C03.09	Safety: SSDO routing via iCN improved
400091219	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.09.3_C03.09	POWERLINK V1: Serial number of BC can now be read in SDM and with AsIODiag
293947	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.09.3_C03.09	POWERLINK−NAT: Header checksum zero of TCP and ICMP not corrected
400087197	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.09.3_C03.09	FileIO: Copying a file via FTP fails, but doesn't produce an error.
400080231	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.09.1_A03.09	plCECreate for TN on iCN sometimes returns Error 20955
400087725	New function	ARSG4_4.01.5_E04.01	ARSG4_3.08.22_V03.08	The AsDb library returns NCHAR and NVARCHAR as ASCII strings.
400088315	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.08.22_V03.08	DevLink returns Error 20734 if the password for an FTP connection isn't entered.
400043838, 400045307, 400051684	Problem	ARSG4_4.01.5_E04.01	ARSG4_3.01.4_D03.01	POWERLINK X2X Link bus controller: CPU in RUN before firmware of optional modules has finished updating
290592	Problem	ARSG4_4.01.4_D04.01	nicht relevant	POWERLINK devices with dynamic mapping and a configured PDO mapping version other than 0 on Type 3/Type 4 hardware
290177	New function	ARSG4_4.01.4_D04.01	nicht relevant	New function "AsIOTimeCyclicStart" in the AsIOTime library
400085457	Problem	ARSG4_4.01.4_D04.01	ARSG4_4.01.3_C04.01	If an ARwin (3.08−3.09) system already exists and a new version of ARwin (4.01−4.02) is installed,without uninstalling the old version first, then the real time OS driver is not correctly updated/replaced.
400083553	Problem	ARSG4_4.01.4_D04.01	ARSG4_4.01.1_A04.01	ARsim doesn't start when files are read−only
400082458, 400085624	Problem	ARSG4_4.01.4_D04.01	ARSG4_3.08.22_V03.08	Internal changes for AR Version 3.06 have slowed down the FB DatObjWrite() considerably.
286692	New function	ARSG4_4.01.4_D04.01	ARSG4_3.08.16_P03.08	Faster synchronization of POWERLINK V1 interfaces
400082325	Problem	ARSG4_4.01.3_C04.01	ARSG4_4.00.22_V04.00	An FTP connection can cause a cycle time violation.
400079011	Problem	ARSG4_4.01.3_C04.01	ARSG4_3.08.22_V03.08	If more memory is configured for volatile global PVs in the system configuration than is available on the target, the CPU starts booting cyclically.
400081689	Problem	ARSG4_4.01.3_C04.01	ARSG4_3.01.12_L03.01	The FBs CANopenSDORead8() and CANopenSDOWrite8() place a high load on the CPU.
400076881, 400078551, 400077154, 400080044, 400079272, 400081478, 400083014	Problem	ARSG4_4.01.2_B04.01	−	On PP500 devices, incorrect BIOS settings can result in an I/O scheduler cycle time violation
279455	Problem	ARSG4_4.01.2_B04.01	ARSG4_4.01.1_A04.01	It is now possible to transfer AsSound to a target that wasn't designed for audio.
400081794	Problem	ARSG4_4.01.2_B04.01	ARSG4_4.01.1_A04.01	If you try to use FileIO to open a file on an FTP server with AR Verison 4.00 or higher, Status 20708 is returned.
400078969	Problem	ARSG4_4.01.2_B04.01	ARSG4_4.00.22_V04.00	Summer time always active
400079765	Problem	ARSG4_4.01.2_B04.01	ARSG4_4.00.22_V04.00	SDM blocks visualization for 5 − 10s after control voltage off/on
400076499	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.08.8_H03.08	Values of local remanent variables are lost after booting in diagnostics mode
400080347	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.08.22_V03.08	On some PCs the AR000 loader crashes while starting.
400079844	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.08.22_V03.08	ARwin boot freezes in Phase 2
400077753	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.08.22_V03.08	Connection problems with WinIO communication
400079725	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.08.22_V03.08	The timeout of the IcmpPing FB varies strongly depending on the system load.
400078120	New function	ARSG4_4.01.2_B04.01	ARSG4_3.08.22_V03.08	Serial number can now be read
400078848	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.08.18_R03.08	INA communication over two different networks doesn't work
400078134	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.07.9_I03.07	Additional checks ensure that requests and responses are matched up correctly.
400078553	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.07.8_H03.07	TMP_suspend() and TMP_resume() cause a cycle time violation when used to often with insufficient time inbetween.
400068854	Problem	ARSG4_4.01.2_B04.01	ARSG4_3.07.4_D03.07	Error in string functions (LEFT, RIGHT, MID, CONCAT, INSERT, DELETE) can lead to incorrect data and buffer overrun.
400116764	Problem	ARSG4_4.01.13_M04.01	ARSG4_4.05.2_B04.05	AsHttp: httpGetParamUrl: Empty parameter values considered
400119163	Problem	ARSG4_4.01.13_M04.01	ARSG4_4.02.18_R04.02	Remanent PVs are not saved during a power failure in ARwin "Shared mode", a cycle time <= 2000 µsec and POWERLINK as the system timer.
400115006	Problem	ARSG4_4.01.13_M04.01	ARSG4_3.09.10_J03.09	Very long CPU boot times if a maximum bootup time of 0 is set for the CANopen master
400107287	Problem	ARSG4_4.01.12_L04.01	PVI4.0.14	Cannot change name of normal BR module when downloaded
400115948	Problem	ARSG4_4.01.12_L04.01	ARSG4_4.02.18_R04.02	Starting up 80 CANopen slaves that are controlled by multiple CANopen masters takes 3 hours.
400113713, 400112239	Problem	ARSG4_4.01.12_L04.01	ARSG4_4.02.14_N04.02	Safety I/O modules via Modbus TCP/IP haven't worked since G3.09/G4.01.
400109134	Problem	ARSG4_4.01.12_L04.01	ARSG4_4.01.7_G04.01	ARwin dummy drivers are not installed automatically in Windows XP.
400100022	Problem	ARSG4_4.01.12_L04.01	ARSG4_4.01.5_E04.01	Ethernet functions such as CfgSetIPAddr do not work on the ARwin.
400107353	Problem	ARSG4_4.01.12_L04.01	ARSG4_3.09.8_H03.09	DirInfo / DirRead not working in terminal mode with PP65 and USB flash drive
400115006	Problem	ARSG4_4.01.12_L04.01	ARSG4_3.09.10_J03.09	CANopen slaves not detected after reconnecting the CANopen master.
338840	New function	ARSG4_4.01.11_K04.01	ARSG4_4.01.10_J04.01	Bufferuplaod of raw− and envelopesignal with up to 65535 values (incl. scaling factor) possible
400105531	Problem	ARSG4_4.01.10_J04.01	V3.00.90.23 SP0x	CANopen master not enabling all outputs on the X20BC0043

335245	Problem	ARSG4_4.01.10_J04.01	ARSG4_4.02.17_Q04.02	Remanent data possibly lost when usi8ng ARwin in shared mode on an APC910
400106522	Problem	ARSG4_4.01.10_J04.01	ARSG4_3.09.8_H03.09	AR OPC > Memory leak on target with continuous OPC DCOM Connect / Read / Disconnect operations
400073463	Problem	ARSG4_4.01.1_A04.01	V3.00.90.14	plCECreate on POWERLINK V2 iCN
400073602	Problem	ARSG4_4.01.1_A04.01	V3.00.80.31 SP01	Long boot times when ModbusTCP devices contain a large number of blocks
400077493	Problem	ARSG4_4.01.1_A04.01	nicht relevant	8AC114.60−2 didn't work as a chained station with AR 3.08
400078143	Problem	ARSG4_4.01.1_A04.01	ARSG4_4.01.25_Y04.01	Some modules (X20DO4649, X20DO8332, etc.) aren't detected when uploading hardware.
400077091	Problem	ARSG4_4.01.1_A04.01	ARSG4_4.00.18_R04.00	The user "anonymous" doesn't have write access
400075707	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.08.1_A03.08	MEMxinfo() returns incorrect memory size due to internal error in data storage
400078143	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.07.9_I03.07	Some modules (X20DO4649, X20DO8332, etc.) aren't detected when uploading hardware.
400071620	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.07.8_H03.07	Function block CfgSetEthConfigMode() returns Status 29005 when cfgCONFIGMODE_MANUALLY is set twice
400071807	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.07.8_H03.07	ABDF1 library writes a logbook entry with Error 0 (unnecessary debug output) for each variable that is read.
400069705	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.07.5_E03.07	Backup of remanent data to SRAM doesn't complete if ARwin is operated in Shared mode.
400072649	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.07.4_D03.07	IcmpPing() function not working on ARsim − Error 32752
400069483	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.07.1_A03.07	CANdftab() function block doesn't release resources when an error occurs (e.g. due to an error in the data object), resulting in a page fault
400066308	Problem	ARSG4_4.01.1_A04.01	ARSG4_3.06.22_V03.06	Error copying CAN CMS objects
400072106	Problem	ARSG4_4.01.1_A04.01	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."

Requests and problems by product/component

1A4000.02 (2.0 Automation Runtime SG4)

AR − ARemb PP500

ID#400094368 : solved problem, known since ARSG4_4.01.5_E04.01, solved since ARSG4_4.01.6_F04.01

Access to CompactFlash blocks EPL

ID#400092484 : solved problem, known since ARSG4_4.01.4_D04.01, solved since ARSG4_4.01.7_G04.01

Longer boot times caused by no DMA access to CF

ID# 400087389, 400084807, 400088862 : solved problem, known since ARSG4_4.01.3_C04.01, solved since ARSG4_4.01.5_E04.01

CF change detected at every boot

ID# 400076881, 400078551, 400077154, 400080044, 400079272, 400081478, 400083014 : solved problem, known since unbekannt, solved since ARSG4_4.01.2_B04.01

On PP500 devices, incorrect BIOS settings can result in an I/O scheduler cycle time violation

Workaround: Deactivate option "DTS" in the PP500 BIOS (Menu Power > Advanced CPU Control)

AR − ARsim

ID#400083553 : solved problem, known since ARSG4_4.01.1_A04.01, solved since ARSG4_4.01.4_D04.01

ARsim doesn't start when files are read−only

If the files in the ARsim directory (typical path: \Project Name\Temp\Simulation\Simulation\PLC1\ ) are read−only, e.g after being saved to and opened from source control, then the ARsim system won't start.
Use Windows Explorer to turn off the read−only setting.

ID#400080347 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_4.01.2_B04.01

On some PCs the AR000 loader crashes while starting.

ID#400078969 : solved problem, known since ARSG4_4.00.22_V04.00, solved since ARSG4_4.01.2_B04.01

Summer time always active

The summer time is active all year when the time zone has a summer time and automatic daylight savings is enabled.

ID#400083240 : new function since ARSG4_4.01.5_E04.01

Idle task execution should be configurable for the ARsim.

When the time zoom is increased for the ARsim, the ratio of idle tasks to cyclic tasks should stay the same.

AR − ARwin

ID#335245 : solved problem, known since ARSG4_4.02.17_Q04.02, solved since ARSG4_4.01.10_J04.01

Remanent data possibly lost when usi8ng ARwin in shared mode on an APC910

If ARwin is being used in shared mode on an APC910, it is possible that remanent data may be lost when a power failure occurs.
If ARwin is being operated in exclusive mode, this behavior does not occur, i.e. the remanent data is retained.

ID#400100022 : solved problem, known since ARSG4_4.01.5_E04.01, solved since ARSG4_4.01.12_L04.01

Ethernet functions such as CfgSetIPAddr do not work on the ARwin.

ID#400090142 : solved problem, known since ARSG4_4.00.22_V04.00, solved since ARSG4_4.01.6_F04.01

Updated AS text for Error 30257

The text for Error 30257 was expanded to include a note regarding ARwin.

ID#400091356 : solved problem, known since ARSG4_4.01.4_D04.01, solved since ARSG4_4.01.5_E04.01

A file copy via CIFS with ARwin AR4.0 takes much more longer (~10 times) than with previous versions.

ID# 400088482, 400088431, 400089890, 400088943 : solved problem, known since ARSG4_4.01.3_C04.01, solved since ARSG4_4.01.5_E04.01

Warning 33301 when starting ARwin

ID#400085457 : solved problem, known since ARSG4_4.01.3_C04.01, solved since ARSG4_4.01.4_D04.01

If an ARwin (3.08−3.09) system already exists and a new version of ARwin (4.01−4.02) is installed,without uninstalling the old version first, then the real time OS driver is not correctly updated/replaced.

ID#400079844 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_4.01.2_B04.01

ARwin boot freezes in Phase 2

When ARwin is booted using the Autostart function, in rare cases it freezes. ARwin can then be booted manually with no problems. As a workaround, ARwin can be started with a delay. The boot delay can be configured using the t−parameter. For example, "ar010loader.exe −t100" delays the start by 100 seconds.

ID#400069705 : solved problem, known since ARSG4_3.07.5_E03.07, solved since ARSG4_4.01.1_A04.01

Backup of remanent data to SRAM doesn't complete if ARwin is operated in Shared mode.

ID#400092904 : new function since ARSG4_4.01.7_G04.01

ARwin shuts down before being uninstalled

To avoid problems when uninstalling, ARwin is now shut down automatically in advance.

ID#400117356 : known problem since ARSG4_4.02.18_R04.02

Loss of remanent PVs on simultaneous failure of an I/O module and power failure

This problem occurs if the failure of an I/O module is detected at the same time as a power failure. This can happen when a shared power supply is switched off. Disabling module monitoring is a way to get around this problem.

AR − ARwin PP500

ID#400119163 : solved problem, known since ARSG4_4.02.18_R04.02, solved since ARSG4_4.01.13_M04.01

Remanent PVs are not saved during a power failure in ARwin "Shared mode", a cycle time <= 2000 µsec and POWERLINK as the system timer.

Remanent PVs are not saved during a power failure in ARwin "Shared mode", a cycle time <= 2000 µsec and POWERLINK as the system timer.
To get around this problem, "Exclusive mode" or a system cycle time >2000 µsec can be used.

ID#400083869 : new function since ARSG4_4.01.5_E04.01

Maximalwert des verwendbaren SRAMs für remanente PVs am PP500 ist zu klein (ARwin)

This change affects only the ARwin. So far it was possible to use 131072 bytes for retentive PVs when running ARwin on a PP500. Technically possible is a maximum value of 262144 bytes.
The new configuration allows to configure the maximum possible area of 262144 bytes of SRAM.

Attention: When using the new V2.0.3.0 upgrade in conjunction with an AR version <E4.01 it is wrongly possible to configure a maximum of 499456 bytes for the RemMem area.
This is not allowed! With this combination it is allowed to use a maximum of 131072 bytes!

AR − General SG4

ID#400079011 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_4.01.3_C04.01

If more memory is configured for volatile global PVs in the system configuration than is available on the target, the CPU starts booting cyclically.

ID#400076499 : solved problem, known since ARSG4_3.08.8_H03.08, solved since ARSG4_4.01.2_B04.01

Values of local remanent variables are lost after booting in diagnostics mode

ID#400066308 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_4.01.1_A04.01

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.

Diagnose − SDM

ID#400103077 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_4.01.9_I04.01

Hardware status on the SDM start page shows errors even though all nodes of the hardware tree are OK.

Only the ignoreNode parameter of the root node was used to generate the summary status information.

ID#400079765 : solved problem, known since ARSG4_4.00.22_V04.00, solved since ARSG4_4.01.2_B04.01

SDM blocks visualization for 5 − 10s after control voltage off/on

SDM has to iterate over the entire hardware tree in order to determine the status "Hardware OK" or "Hardware ERROR".
Functional optimizations have considerably improved this runtime behavior.

ID#400105391 : known problem since ARSG4_4.05.2_B04.05

SDM via HTML does not show SNTP server information

The problem rests in the SDAR.
Since the "sdarUpdSntpClientServers" function, which is called cyclically in the SDAR, returns error status SNTP_ONE_SERVER instead of ERR_OK, this is interpreted as an error in the SDAR and marked as invalid for continued use in the SDM (valid = 0).

The reason why the SVG bar returns a false positive result is that the parameter string in the SVG part −− unlike the HTML part −− is not checked for validity.

IO System − CANopen

ID#400115006 : solved problem, known since ARSG4_3.09.10_J03.09, solved since ARSG4_4.01.13_M04.01

Very long CPU boot times if a maximum bootup time of 0 is set for the CANopen master

ID#400115948 : solved problem, known since ARSG4_4.02.18_R04.02, solved since ARSG4_4.01.12_L04.01

Starting up 80 CANopen slaves that are controlled by multiple CANopen masters takes 3 hours.

ID#400115006 : solved problem, known since ARSG4_3.09.10_J03.09, solved since ARSG4_4.01.12_L04.01

CANopen slaves not detected after reconnecting the CANopen master.

ID#400105531 : solved problem, known since V3.00.90.23 SP0x, solved since ARSG4_4.01.10_J04.01

CANopen master not enabling all outputs on the X20BC0043

ID#400093522 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_4.01.7_G04.01

IOPCServer::RemoveGroup with bForce == TRUE doesn't work

Although the CANopen slaves are functional and have the correct status, the CANopen master doesn't recognize the status.

ID#400090254 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_4.01.7_G04.01

Cyclic log book entries from the CANopen master can lead to a cycle time violation on the CPU.

ID#400094656 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_4.01.6_F04.01

The CPU doesn't boot if a CANopen slave doesn't have either Heartbeat or Lifeguarding configured.

IO System − General

ID#400095750 : solved problem, known since ARSG4_3.07.5_E03.07, solved since ARSG4_4.01.7_G04.01

AsIOTimeStamp() does not return time stamps from the next system cycle any more

If caused by jitter of the timer interrupt the current system cycle took longer that the nominal cycle time, the AsIOTimeStamp() function returned values, that belonged to the next system cycle. Therefore AsIOTimeStamp at the beginning of the next system cycle might have returned a smaller value. In this case AsIOTimeStamp() now returns the nominal end time of the current system cycle, and therefore the time stamp is consecutive now.

ID#400085428 : new function since ARSG4_4.01.5_E04.01

Warning 20936 fills the logboo

When a POWERLINK card was operated at the performance limit of the PCI bus, Error 20936 was output every minute, filling the logbook.
Now the logbook entry is only made when the time violation is larger than the previously reported one and more than 60 seconds have passed.
With this change, fewer logbook entries are generated, yet you can still see the maximum time violation.

IO System − HWD

ID#400078143 : solved problem, known since ARSG4_4.01.25_Y04.01, solved since ARSG4_4.01.1_A04.01

Some modules (X20DO4649, X20DO8332, etc.) aren't detected when uploading hardware.

The warning "Warning 0 − unknown module<> on bus <IF6.X2X.BUS> at pos<>" is entered in the logbook.

ID#400078143 : solved problem, known since ARSG4_3.07.9_I03.07, solved since ARSG4_4.01.1_A04.01

Some modules (X20DO4649, X20DO8332, etc.) aren't detected when uploading hardware.

The warning "Warning 0 − unknown module<> on bus <IF6.X2X.BUS> at pos<>" is entered in the logbook.

IO System − ModbusTCP

ID#400073602 : solved problem, known since V3.00.80.31 SP01, solved since ARSG4_4.01.1_A04.01

Long boot times when ModbusTCP devices contain a large number of blocks

Configured blocks are read in internally by Automation Runtime, which means that with an increasing number of blocks in a ModbusTCP device it takes disproportionately longer to boot the target system.

IO System − netX

ID#400079165 : solved problem, known since ARSG4_4.01.3_C04.01, solved since ARSG4_4.01.5_E04.01

Error 30285 NetX Card failed code 0x8044 or 0x8048 on X20BC1083

With certain configurations there are oddaligned start offsets of IO images. The X20BC1083 bus controller needs aligned offsets so it returns error 30285 NetX Card SSx failed code: 0x8044 or 0x8048 to the logger.
Now the start offsets are correted by the driver.

IO System − openSafety

ID# 400113713, 400112239 : solved problem, known since ARSG4_4.02.14_N04.02, solved since ARSG4_4.01.12_L04.01

Safety I/O modules via Modbus TCP/IP haven't worked since G3.09/G4.01.

Safety I/O modules connected to the SafeLOGIC controller via Modbus TCP/IP haven't worked since ab AR version G3.09 or G4.01; this connection continues to work in F3.09/F4.01.
This feature now works again beginning with L3.09 / L4.01.

ID#400092027 : solved problem, known since ARSG4_3.09.5_E03.09, solved since ARSG4_4.01.7_G04.01

Connection between SL controller and SafeIO routed via iCN not working when the iCN is started prematurely

If the connection between the SafeLOGIC controller and SafeIO modules is routed via a POWERLINK MN iCN connection, then it won't work if the iCN is started before the MN. This problem has existed since AR 3.08.

ID# 400095305 : solved problem, known since ARSG4_4.02.11_K04.02, solved since ARSG4_4.01.6_F04.01

Transferring safety application doesn't work if POWERLINK MTU > 500 bytes

If the MTU size for POWERLINK was set to more than 500 bytes, the safety application couldn't be transferred to the SafeLOGIC.

ID#400090441 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_4.01.5_E04.01

POWERLINK V2: openSafety connection including several interfaces did not work on iCN after restart of MN

ID#291357 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_4.01.5_E04.01

Safety: SSDO routing via iCN improved

Routing of SSDO packages via iCN has been improved. Starting up many routed SSDO connections is now completed faster.

IO System − Powerlink

ID#327590 : solved problem, known since ARSG4_3.09.5_E03.09, solved since ARSG4_4.01.9_I04.01

Firmware update of POWERLINK X2XLink Buscontroller in V1 via SDO

The firmware update of POWERLINK X2XLink bus controllers is now performed via SOD, this prevents firmware update problems in POWERLINK V1, which occured with bus controller firmware V1.3.1.0 (167)

ID#400091219 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_4.01.5_E04.01

POWERLINK V1: Serial number of BC can now be read in SDM and with AsIODiag

ID#293947 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_4.01.5_E04.01

POWERLINK−NAT: Header checksum zero of TCP and ICMP not corrected

When TCP and ICMP packets were routet via NAT on POWERLINK and the header checksum was zero, it was not corrected.
The equivalent checksum 0xFFFF was treated correctly.

ID# 400043838, 400045307, 400051684 : solved problem, known since ARSG4_3.01.4_D03.01, solved since ARSG4_4.01.5_E04.01

POWERLINK X2X Link bus controller: CPU in RUN before firmware of optional modules has finished updating

If a POWERLINK X2X Link bus controller has multiple X2X Link stations connected to it whose X2X connection is reset during a firmware update (e.g. 8I64xxxxxx) and whose "Module supervised" option is set to "off", then the CPU can enter RUN mode before the firmware for these modules has finished updating.

ID#400080231 : solved problem, known since ARSG4_3.09.1_A03.09, solved since ARSG4_4.01.5_E04.01

plCECreate for TN on iCN sometimes returns Error 20955

If plCECreate was called on an iCN to create copy entries for a TN while the MN sent a NMT reset command, the plCECreate function returned error 20955 instead of ERR_OK.
plCECreate works correct now, even in parallel to NMT reset commands.

ID#290592 : solved problem, known since nicht relevant, solved since ARSG4_4.01.4_D04.01

POWERLINK devices with dynamic mapping and a configured PDO mapping version other than 0 on Type 3/Type 4 hardware

If a PDO mapping version other than 0 was configured on POWERLINK devices, then the ModuleOk flag for Type 3 and Type 4 interface cards was not switched to TRUE and input data couldn't be read.
The reason for this behavior was that the mapping version is checked in the Type 3/Type 4 POWERLINK IF cards, but the driver didn't enter the configured mapping version in the dynamic mapping of the controlled nodes.
The device worked with Type 2 POWERLINK IF cards, because here the mapping version 0 is always accepted.
The affected device was the Numatics G3 POWERLINK controller.
The mapping version is now also entered on the controlled nodes for dynamic mapping.

ID#287047 : solved problem, known since ARSG4_4.02.4_D04.02, solved since ARSG4_4.01.5_E04.01

POWERLINK MTU set to CN

If the POWERLINK MTU is set to a different value than the default of 300, it is now set to the object 1F98/8 in the OD of the CN, as defined in the POWERLINK standard.
If the CN does not support objekt 1F98/8, which is mandatory in the specifiaction, setting the MTU can be switched off by a <Parameter ID="EPL_CNSetMtu" Value="off"> in the hwc−File.

ID#400080058 : solved problem, known since ARSG4_4.01.1_A04.01, solved since ARSG4_4.01.5_E04.01

Warning 30298 in logbook when an 8AC114.60−2 is configured as a chained station

When an 8AC114.60−2 is configured as a chained station on the POWERLINK network, Warning 30298 is entered in the logbook during startup, since the ACOPOS boot operating system is missing some POWERLINK service data objects. These objects are found in the update operating system, so the station functions correctly after the NC Manager is started.
The warning is no long entered in the logbook.

ID#400077493 : solved problem, known since nicht relevant, solved since ARSG4_4.01.1_A04.01

8AC114.60−2 didn't work as a chained station with AR 3.08

8AS114.60−2 no longer works as a chained station with AR 3.08 – used to work with earlier versions.

ID#286692 : new function since ARSG4_4.01.4_D04.01

Faster synchronization of POWERLINK V1 interfaces

For POWERLINK V1 interfaces in managing node mode, synchronization with the system clock has been improved during startup

ID#400109321 : known problem since ARSG4_3.09.9_I03.09

String literals with $ are incorrectly interpreted with POWERLINK CN initialization values.

If hexadecimal values are specified with $ in string literals for the initialization parameters of POWERLINK CN stations, they will be incorrectly interpreted and incorrect values will be output to POWERLINK.

ID#400077759 : known problem since ARSG4_3.09.7_G03.09

POWERLINK input data toggels on multiplexed iCN if multiplex slot is automatically calculated

If a iCN station is configured as multiplexed CN and the multiplex slot is set to 0 (= cycle automatically calculated), the input data may be read incorrectly on the iCN after a restart.
The input data was read correctly if the multiplex slot was set to a fixed value, or the station was not multipleted.
The problem was introduced with AR Version A3.09 / A4.01.

ID#400095563 : known problem since ARSG4_3.09.5_E03.09

Static Routing via POWERLINK NAT Subnet does not work

The routing of IP connections by static routing entries using the POWERLINK NAT subnet address did not work since AR version I3.08.

ID#400093463 : known problem since ARSG4_4.01.4_D04.01

Error 32280 at ACOPOS with 8AC114.60−2 when using PRC option only on some

If there are several ACOPOS with 8AC114.60−2 in a POWERLINK network, and only some of them have the option Poll Response Chaining enabled, there might be a Timeout during the initialization for the ACOPOS without Poll Response Chaining, and therefore the Error 32280 − Timeout for enable of acyclic network communication is reported.

IO System − WinIO

ID#400077753 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_4.01.2_B04.01

Connection problems with WinIO communication

If the cyclic communication data requires more than one IP packet, there are brief sporadic interruptions in the connection between the controller and the simulation tool.

IO System − X2X

ID#400054890 : known problem since ARSG4_3.06.22_V03.06

Unique error number if X2X Link node number switch is invalid

If a station address assigned with a node number switch would result in a repeated station number, error 30345 ERR_DDIOX"X_HEXNOTUNIQUE is entered in the logbook. Previously Error 30349 "Internal X2X Link error" was entered.

Library − AsARCfg

ID#400096344 : solved problem, known since ARSG4_3.09.5_E03.09, solved since ARSG4_4.01.7_G04.01

CfgSetWebMimeType() behaves unexpectedly

A configuration set during runtime was not applied on the Web server.

ID#400071620 : solved problem, known since ARSG4_3.07.8_H03.07, solved since ARSG4_4.01.1_A04.01

Function block CfgSetEthConfigMode() returns Status 29005 when cfgCONFIGMODE_MANUALLY is set twice

Library − AsARLog

ID#400072106 : solved problem, known since ARSG4_3.06.22_V03.06, solved since 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."

Library − AsArSdm

ID#400103036 : solved problem, known since ARSG4_4.01.7_G04.01, solved since ARSG4_4.01.9_I04.01

SdmSystemDump function block not generating a system dump in ARwin

Files that are saved in ARwin using the ArAsdm library (system dump) or SDM in connection with a visualization object are now mirrored automatically on the Windows file system by the RAM disk (VxWorks file system).

Up until now, the corresponding files had to be retrieved from the RAM disk manually with FTP.

ID#400092311 : solved problem, known since ARSG4_4.01.4_D04.01, solved since ARSG4_4.01.6_F04.01

see main entry

see main entry

Library − AsCANopen

ID#400081689 : solved problem, known since ARSG4_3.01.12_L03.01, solved since ARSG4_4.01.3_C04.01

The FBs CANopenSDORead8() and CANopenSDOWrite8() place a high load on the CPU.

Library − AsDb

ID#400087725 : new function since ARSG4_4.01.5_E04.01

The AsDb library returns NCHAR and NVARCHAR as ASCII strings.

Library − AsHTTP

ID#400116764 : solved problem, known since ARSG4_4.05.2_B04.05, solved since ARSG4_4.01.13_M04.01

AsHttp: httpGetParamUrl: Empty parameter values considered

ID#400101933 :

AsHttp library available

Library − AsIcmp

ID# 400099872, 400100767 : solved problem, known since ARSG4_4.02.11_K04.02, solved since ARSG4_4.01.8_H04.01

Watchdog occurs, if target is not reachable.

If the target, whos state is checked using AsICMP, is not reachable, a watchdog may occur under certain circumstances.

ID#400079725 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_4.01.2_B04.01

The timeout of the IcmpPing FB varies strongly depending on the system load.

ID#400072649 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_4.01.1_A04.01

IcmpPing() function not working on ARsim − Error 32752

Library − AsIODiag

ID#400078120 : new function since ARSG4_4.01.2_B04.01

Serial number can now be read

Library − AsIOTime

ID#290177 : new function since ARSG4_4.01.4_D04.01

New function "AsIOTimeCyclicStart" in the AsIOTime library

A new function has been added to the AsIOTime library: AsIOTimeCyclicStart. It returns the start time of the current cycle of the cyclic resource.

Library − AsIOVib

ID#338840 : new function since ARSG4_4.01.11_K04.01

Bufferupluad of raw− and envelopesignal with up to 65535 values (incl. scaling factor) possible

Library − AsNxCoM

ID#400086510 : solved problem, known since ARSG4_4.00.22_V04.00, solved since ARSG4_4.01.5_E04.01

POWERLINK: Accelerated asynchronous access to NetX downstream from POWERLINK bus controller

Library − AsSNMP

ID#400099231 : solved problem, known since ARSG4_4.01.5_E04.01, solved since ARSG4_4.01.7_G04.01

The snmpV1Get() function block in the AsSnmp library doesn't work with AR 4.xx if several variables should be read out simultaneously.

Library − AsSound

ID#279455 : solved problem, known since ARSG4_4.01.1_A04.01, solved since ARSG4_4.01.2_B04.01

It is now possible to transfer AsSound to a target that wasn't designed for audio.

In order to maintain consistency with all B&R libraries, the installation process is canceled when an error occurs.
The respective error code is not returned, however.
When an error occurs, the FBs themselves return the respective error code.

Library − AsXML

ID#400078517 : new function since ARSG4_4.01.5_E04.01

AsXml: The AsXml library converts all the characters of an .xml file to UTF−8.

ID#400081950 : known problem since ARSG4_4.00.22_V04.00

xmlReadNextNode returns Error 33818 whern there are characters following the XML End tag.

Library − BRSystem

ID#400075707 : solved problem, known since ARSG4_3.08.1_A03.08, solved since ARSG4_4.01.1_A04.01

MEMxinfo() returns incorrect memory size due to internal error in data storage

Library − CAN_lib

ID#400098787 : solved problem, known since ARSG4_3.09.5_E03.09, solved since ARSG4_4.01.8_H04.01

X20CS1070 CAN driver correction

CAN objects are now freed up for the X20CS1070 in the CAN driver.

ID#400069483 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_4.01.1_A04.01

CANdftab() function block doesn't release resources when an error occurs (e.g. due to an error in the data object), resulting in a page fault

Library − DataObject

ID# 400082458, 400085624 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_4.01.4_D04.01

Internal changes for AR Version 3.06 have slowed down the FB DatObjWrite() considerably.

Library − DRVABDF1

ID#400071807 : solved problem, known since ARSG4_3.07.8_H03.07, solved since ARSG4_4.01.1_A04.01

ABDF1 library writes a logbook entry with Error 0 (unnecessary debug output) for each variable that is read.

Library − DRV_mbus

ID#400078134 : solved problem, known since ARSG4_3.07.9_I03.07, solved since ARSG4_4.01.2_B04.01

Additional checks ensure that requests and responses are matched up correctly.

Library − FileIO

ID#400107353 : solved problem, known since ARSG4_3.09.8_H03.09, solved since ARSG4_4.01.12_L04.01

DirInfo / DirRead not working in terminal mode with PP65 and USB flash drive

The problem where DirInfo could not read from a USB flash drive in terminal mode has been corrected.
The USB flash drive was treated like a folder and a backslash was set before its name. A query was implemented to determine whether it is dealing with the name of a drive.

ID# 400086895, 400088050, 400090204 : solved problem, known since ARSG4_4.01.3_C04.01, solved since ARSG4_4.01.5_E04.01

Error 20709 when sending a file via FTP with AR 4.0

ID#400087197 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_4.01.5_E04.01

FileIO: Copying a file via FTP fails, but doesn't produce an error.

ID#400088315 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_4.01.5_E04.01

DevLink returns Error 20734 if the password for an FTP connection isn't entered.

ID#400081794 : solved problem, known since ARSG4_4.01.1_A04.01, solved since ARSG4_4.01.2_B04.01

If you try to use FileIO to open a file on an FTP server with AR Verison 4.00 or higher, Status 20708 is returned.

Library − PowerLnk

ID#400073463 : solved problem, known since V3.00.90.14, solved since ARSG4_4.01.1_A04.01

plCECreate on POWERLINK V2 iCN

If, on a POWERLINK iCN station with a fixed size, copy tasks are created using plCECreate before the network MN is active, then when the MN becomes active, offsets are moved in the I/O mapping. As a result, the copy tasks created with pICECreate copy data from the wrong offsets.

Library − Standard

ID#400068854 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_4.01.2_B04.01

Error in string functions (LEFT, RIGHT, MID, CONCAT, INSERT, DELETE) can lead to incorrect data and buffer overrun.

Library − SYS_lib

ID#400088630 : solved problem, known since ARSG4_4.01.5_E04.01, solved since ARSG4_4.01.7_G04.01

The internal events that are triggered by the suspend and resume of tasks will not cause the warning 24807 anymore.

ID#400078553 : solved problem, known since ARSG4_3.07.8_H03.07, solved since ARSG4_4.01.2_B04.01

TMP_suspend() and TMP_resume() cause a cycle time violation when used to often with insufficient time inbetween.

Setup

ID#400109134 : solved problem, known since ARSG4_4.01.7_G04.01, solved since ARSG4_4.01.12_L04.01

ARwin dummy drivers are not installed automatically in Windows XP.

ID#400083869 : new function since ARSG4_4.01.7_G04.01

Maximum value of SRAM used for remanent PVs on PP500 is too low.

On the PP500, when using ARwin, a maximum of 131072 bytes can be used for remanent PVs. Technically, a value of 262144 bytes would be feasible.
Changing the configuration allows the maximum possible amount of SRAM to be used.
Keep in mind that when using a new configuration with AR Version < J4.02, a maximum of 499456 bytes could be configured. This is not permitted, because for this combination as well only 262144 bytes may be used.

System − ANSL

ID#400107287 : solved problem, known since PVI4.0.14, solved since ARSG4_4.01.12_L04.01

Cannot change name of normal BR module when downloaded

If the name of a normal BR module is specified when downloading, it is not passed on to PVI by PviServices if it is a standard BR module (e.g. ConversionModes.BR).

ID#400105760 : solved problem, known since ARSG4_3.07.14_N03.07, solved since ARSG4_4.01.9_I04.01

Overloading tasks, which include variables that are used by a running VC terminal causes a page fault in AR or leads to a memory problem

System − FTP Server

ID#400082325 : solved problem, known since ARSG4_4.00.22_V04.00, solved since ARSG4_4.01.3_C04.01

An FTP connection can cause a cycle time violation.

ID#400077091 : solved problem, known since ARSG4_4.00.18_R04.00, solved since ARSG4_4.01.1_A04.01

The user "anonymous" doesn't have write access

If the FTP client registers on the controller as "anonymous", it doesn't have write access.
Solution: Register as any user with any password

System − INA

ID#400085166 : solved problem, known since PVI3.00.00.3119, solved since ARSG4_4.01.8_H04.01

Variables can no longer be read via PVI/INA2000

ID#400078848 : solved problem, known since ARSG4_3.08.18_R03.08, solved since ARSG4_4.01.2_B04.01

INA communication over two different networks doesn't work

INA communication is not possible over two different networks (different subnets connected via gateways) if ARP frames aren't routed.

System − OPC

ID#400106522 : solved problem, known since ARSG4_3.09.8_H03.09, solved since ARSG4_4.01.10_J04.01

AR OPC > Memory leak on target with continuous OPC DCOM Connect / Read / Disconnect operations

Memory usage now remains constant after eliminating the OPC and DCOM memory leak in AR 4.01.
Testing took place on an X20CP3486 as well on a PP400

ID#400098685 : solved problem, known since ARSG4_3.09.6_F03.09, solved since ARSG4_4.01.7_G04.01

AR OPC: Callback not sent for value changes after a "Write"

No notifications are sent to the client for subscribed items whose value is changed with an OPC "Write" task.

ID# 400045146, 400092705 : solved problem, known since ARSG4_3.01.4_D03.01, solved since ARSG4_4.01.7_G04.01

IOPCServer::RemoveGroup with bForce == TRUE doesn't work

When IOPCServer::RemoveGroup was called with the parameter bForce == TRUE and there were still references, then the group wasn't removed and an error code was returned. This appeared to result in a page fault. Now bForce==TRUE is handled correctly.

ID#400088880 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_4.01.6_F04.01

AR OPC server: Errors when writing strings

In some circumstances, the type information for VT_BSTR was not evaluated correctly − as a result, values were read back incorrectly after writing to a VT_BSTR tag. Page faults also occurred.