**B&R Revision Information**

# Automation Runtime SG4 R3.09 (3.09.18)

**21−Aug−2014**

# Contents

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## Contents

## Requests and problems by version

| ID | valuation | solved since | known since | Description |
|---|---|---|---|---|
| 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. |
| 400093522 | Problem | – | ARSG4_3.09.7_G03.09 | If disconnected and reconnected, the Nord CANopen frequency inverter only continues working after the PnP timer has elapsed. |
| 400101933 | New function | – | ARSG4_3.09.7_G03.09 | AsHttp library available |
| 400095563, 400035618 | Problem | – | ARSG4_3.09.5_E03.09 | Static Routing via POWERLINK NAT Subnet does not work |
| 317025 | Problem | – | ARSG4_3.09.5_E03.09 | X2X modules are no longer detected if the cable is jiggled in a certain way when they are connected. |
| 400129692 | Problem | – | ARSG4_3.09.13_M03.09 | AR3.09 ArWin – AsTime::utcDTStructureGetTime() returning local time |
| 400116568 | Problem | – | ARSG4_3.09.11_K03.09 | CANopen master entering emergency telegrams in the logbook that are not send on the CAN bus |
| 400076499 | Problem | – | ARSG4_3.08.8_H03.08 | Values of local remanent variables are lost after booting in diagnostics mode |
| 400114423 | Problem | – | ARSG4_3.08.22_V03.08 | CANopenSDORead8() function block in the AsCANopen library returning status 65534 although called with enable = TRUE |
| 400054890 | Problem | – | ARSG4_3.06.22_V03.06 | Unique error number if X2X Link node number switch is invalid |
| 400091542 | Problem | – | ARSG4_3.01.4_D03.01 | CANopen write sporadically returns Error 50 |
| 400080378, 400081281 | Problem | ARSG4_3.09.9_I03.09 | – | The checksum of one or more B&R modules is incorrect. |
| 400103036 | Problem | ARSG4_3.09.9_I03.09 | ARSG4_4.01.7_G04.01 | SdmSystemDump function block not generating a system dump in ARwin |
| 321550 | Problem | ARSG4_3.09.9_I03.09 | ARSG4_3.09.7_G03.09 | Cycle time violation of the I/O scheduler during download |
| 311650 | Problem | ARSG4_3.09.9_I03.09 | ARSG4_3.09.5_E03.09 | Firmware update of POWERLINK X2XLink Buscontroller in V1 via SDO |
| 400103077 | Problem | ARSG4_3.09.9_I03.09 | 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_3.09.9_I03.09 | 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_3.09.8_H03.09 | PVI3.00.00.3119 | Variables can no longer be read via PVI/INA2000 |
| 400099872, 400100767 | Problem | ARSG4_3.09.8_H03.09 | ARSG4_4.02.11_K04.02 | Watchdog occurs, if target is not reachable. |
| 400077759 | Problem | ARSG4_3.09.8_H03.09 | ARSG4_3.09.7_G03.09 | POWERLINK input data toggels on multiplexed iCN if multiplex slot is automatically calculated |
| 400102773 | Problem | ARSG4_3.09.8_H03.09 | ARSG4_3.09.7_G03.09 | The limit for the number of "binds" was increased from 20 to 64. Each interface uses 3 or 4 "binds" during initialisation, leaving not enough reserve for AsEthRawOpen, which requires one for each call. |
| 400101362 | Problem | ARSG4_3.09.8_H03.09 | ARSG4_3.09.7_G03.09 | USB RFID reader 5E9010.29 missing characters |
| 400098787 | Problem | ARSG4_3.09.8_H03.09 | ARSG4_3.09.5_E03.09 | X20CS1070 CAN driver correction |
| 400088630 | Problem | ARSG4_3.09.7_G03.09 | 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. |
| 400098685 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.09.6_F03.09 | AR OPC: Callback not sent for value changes after a "Write" |
| 400092027 | Problem | ARSG4_3.09.7_G03.09 | 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_3.09.7_G03.09 | ARSG4_3.09.5_E03.09 | CfgSetWebMimeType() behaves unexpectedly |
| 400095991, 400097876, 400101270 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.09.5_E03.09 | RFID Reader doesn't work anymore with E3.09 |
| 400091436 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.09.4_D03.09 | Message: "Not enough free memory" when transferring an additional visualization to ARwin. |
| 400090254, 400090254 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.09.4_D03.09 | Cyclic log book entries from the CANopen master can lead to a cycle time violation on the CPU. |
| 400093522 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.09.4_D03.09 | Although the CANopen slaves are functional and have the correct status, the CANopen master doesn't recognize the status. |
| 400094324 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.09.4_D03.09 | PV_xgetadr() doesn't work if task name >10 characters |
| 400087751 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.09.3_C03.09 | USB EHCI activated for AR105 (APC/PPC) targets |
| 400092904 | New function | ARSG4_3.09.7_G03.09 | ARSG4_3.08.22_V03.08 | ARwin shuts down before being uninstalled |
| 400095750 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.07.5_E03.07 | AsIOTimeStamp() does not return time stamps from the next system cycle any more |
| 400045146, 400092705 | Problem | ARSG4_3.09.7_G03.09 | ARSG4_3.01.4_D03.01 | IOPCServer::RemoveGroup with bForce == TRUE doesn't work |

| 400095305 | Problem | ARSG4_3.09.6_F03.09 | ARSG4_4.02.11_K04.02 | Transferring safety application doesn't work if POWERLINK MTU > 500 bytes |
|---|---|---|---|---|
| 400094656 | Problem | ARSG4_3.09.6_F03.09 | 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_3.09.6_F03.09 | ARSG4_3.09.4_D03.09 | AR OPC server: Errors when writing strings |
| 400095270 | Problem | ARSG4_3.09.6_F03.09 | ARSG4_3.07.3_C03.07 | AsDb: Enable is not evaluated in the dbGetData() FB. |
| 290510 | Problem | ARSG4_3.09.5_E03.09 | nicht relevant | POWERLINK devices with dynamic mapping and a configured PDO mapping version other than 0 on Type 3/Type 4 hardware |
| 287037 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_4.02.4_D04.02 | POWERLINK MTU set to CN |
| 400079165 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_4.01.3_C04.01 | Error 30285 NetX Card failed code 0x8044 or 0x8048 on X20BC1083 |
| 400086510 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_4.00.22_V04.00 | POWERLINK: Accelerated asynchronous access to NetX downstream from POWERLINK bus controller |
| 400090441, 400090621 | Problem | ARSG4_3.09.5_E03.09 | 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_3.09.5_E03.09 | ARSG4_3.09.3_C03.09 | Warning 20936 fills the logbook |
| 290917 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.09.3_C03.09 | Safety: SSDO routing via iCN improved |
| 400091219 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.09.3_C03.09 | POWERLINK V1: Serial number of BC can now be read in SDM and with AsIODiag |
| 291995 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.09.3_C03.09 | POWERLINK–NAT: Header checksum zero of TCP and ICMP not corrected |
| 400087197 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.09.3_C03.09 | FileIO: Copying a file via FTP fails, but doesn't produce an error. |
| 400080231 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.09.1_A03.09 | pICECreate for TN on iCN sometimes returns Error 20955 |
| 277910 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.09.1_A03.09 | Warning 30298 in logbook when an 8AC114.60–2 is configured as a chained station |
| 400087725 | New function | ARSG4_3.09.5_E03.09 | ARSG4_3.08.22_V03.08 | The AsDb library returns NCHAR and NVARCHAR as ASCII strings. |
| 400089250 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.08.22_V03.08 | Correction for CAN extended identifier (29–bit) |
| 400089250 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.08.22_V03.08 | Correction for CAN extended identifier (29–bit) |
| 400088315 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.08.22_V03.08 | DevLink returns Error 20734 if the password for an FTP connection isn't entered. |
| 400091435 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.08.22_V03.08 | Error 12041 not set for LCRPIDTune |
| 400043838, 400045307, 400051684 | Problem | ARSG4_3.09.5_E03.09 | ARSG4_3.01.4_D03.01 | POWERLINK X2X Link bus controller: CPU in RUN before firmware of optional modules has finished updating |
| 290172 | New function | ARSG4_3.09.4_D03.09 | nicht relevant | New function "AsIOTimeCyclicStart" in the AsIOTime library |
| 400082458, 400085624 | Problem | ARSG4_3.09.4_D03.09 | ARSG4_3.08.22_V03.08 | Internal changes for AR Version 3.06 have slowed down the FB DatObjWrite() considerably. |
| 286687 | New function | ARSG4_3.09.4_D03.09 | ARSG4_3.08.16_P03.08 | Faster synchronization of POWERLINK V1 interfaces |
| 400079011 | Problem | ARSG4_3.09.3_C03.09 | 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_3.09.3_C03.09 | ARSG4_3.01.12_L03.01 | The FBs CANopenSDORead8() and CANopenSDOWrite8() place a high load on the CPU. |
| 400081794 | Problem | ARSG4_3.09.2_B03.09 | 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_3.09.2_B03.09 | ARSG4_4.00.22_V04.00 | Summer time always active |
| 400079765 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_4.00.22_V04.00 | SDM blocks visualization for 5 – 10s after control voltage off/on |
| 400080347 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | On some PCs the AR000 loader crashes while starting. |
| 400079844 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | ARwin boot freezes in Phase 2 |
| 400081019 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | Download and startup take longer |
| 400079135 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | AR V3.08 doesn't work on a 4MP281.0843–13 or 4MP281.0571–12. The panel reboots cyclically. The error is corrected starting with version B3.09. |
| 400077753 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | Connection problems with WinIO communication |
| 400079725 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | The timeout of the IcmpPing FB varies strongly depending on the system load. |
| 400078120 | New function | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | Serial number can now be read |
| 400077189, 400081002, 400083485 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | In rare cases a page fault occurs during ANSL.communication (_anslOnlRecvSvcData). |
| 400077189 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.22_V03.08 | In rare cases a page fault occurs during ANSL.communication (_anslOnlRecvSvcData). |
| 400078848 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.08.18_R03.08 | INA communication over two different networks doesn't work |
| 400078134 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.07.9_I03.07 | Additional checks ensure that requests and responses are matched up correctly. |
| 400076161 | Problem | ARSG4_3.09.2_B03.09 | ARSG4_3.07.8_H03.07 | Error 26456 in the logbook for data points on the POWERLINK interface card |
| 400078553 | Problem | ARSG4_3.09.2_B03.09 | 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_3.09.2_B03.09 | ARSG4_3.07.4_D03.07 | Error in string functions (LEFT, RIGHT, MID, CONCAT, INSERT, DELETE) can lead to incorrect data and buffer overrun. |
| 400129077 | Problem | ARSG4_3.09.18_R03.09 | VC 4.05.4 | Missing data events when writing certain event variables (data type) |
| 400133180, 400135648 | Problem | ARSG4_3.09.18_R03.09 | ARSG4_4.02.22_V04.02 | CANopen slave monitoring fails after 2.5 days. |
| 400105461, 400128046 | Problem | ARSG4_3.09.18_R03.09 | ARSG4_3.09.8_H03.09 | Page fault when multiple data objects created simultaneously. |
| 400131964 | Problem | ARSG4_3.09.18_R03.09 | ARSG4_3.09.13_M03.09 | The second CAN interface on an IF772 module freezes if there is no station on the CAN bus for an extended period of time. |
| 400133216 | New function | ARSG4_3.09.18_R03.09 | ARSG4_3.09.13_M03.09 | The CanOpenGetState() function block returns an incorrect CANopen status if a slave was not configured in Automation Studio. |
| 400131463 | Problem | ARSG4_3.09.17_Q03.09 | ARSG4_3.09.11_K03.09 | OPC server no longer accepts connection after several cycles when clients do a hard power fail without proper disconnect. |
| 400117277, 400118083, 400120482, 400126634, | Problem | ARSG4_3.09.16_P03.09 | ARSG4_4.02.18_R04.02 | Correction when enabling line coverage |

| 400127839, 400128698 | | | | |
|---|---|---|---|---|
| 400118102 | Problem | ARSG4_3.09.16_P03.09 | ARSG4_4.02.17_Q04.02 | When processing ANSL events (PV events, module events, etc.), objects are accessed that are not yet or no longer valid at this point in time. |
| 400128721 | Problem | ARSG4_3.09.16_P03.09 | ARSG4_3.09.13_M03.09 | Handling of failed connection attempts in interrupted networks |
| 372420 | Problem | ARSG4_3.09.15_O03.09 | ARSG4_4.02.21_U04.02 | X20AIx632 modules returning "SyncStatus" error if indivisible relationship between X2X Link and system cycle time |
| 400092707 | Problem | ARSG4_3.09.15_O03.09 | ARSG4_3.09.4_D03.09 | Overload of OPC DA server after client deregistration as well |
| 400123649 | Problem | ARSG4_3.09.15_O03.09 | ARSG4_3.09.13_M03.09 | APC rebooting during ARWin shutdown |
| 400121091 | New function | ARSG4_3.09.15_O03.09 | ARSG4_3.09.12_L03.09 | The behavior of the USB port is physically different due to the USB (OHCI/EHCI). |
| 400127275 | Problem | ARSG4_3.09.15_O03.09 | ARSG4_3.09.11_K03.09 | Overload of OPC DA server after client deregistration as well |
| 400123625, 400129034 | Problem | ARSG4_3.09.15_O03.09 | ARSG4_3.09.10_J03.09 | X20BC1083: Update error X20IF10E3–1 after configuration change |
| 400124234 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_4.02.19_S04.02 | Only possible to operate one CANopen slave with an APC8x and 5AC600.CANI–00 |
| 400123539 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_4.02.19_S04.02 | CANopen master not receiving data (PDOs) if no inputs are configured |
| 400126326 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_4.02.19_S04.02 | USB transponder driver |
| 400123039 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_4.02.18_R04.02 | "maxlength" parameter ignored in CANopenSDOReadData function block |
| 400114693 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.9_I03.09 | Page fault after a few hours of operation if a CPU configured for CANopen slaves is operated without any slaves |
| 400099510 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.7_G03.09 | When using the AsEthIP library, making a change to a task requires that the PLC be restarted in order for communication to work again. |
| 400125951 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.13_M03.09 | CANopen master sending PDOs before the associated slave has reported status Operational |
| 400124801 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.13_M03.09 | CONCAT returning incorrect result in certain cases |
| 400124498 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.13_M03.09 | AR OPC DA server not always updating value changes |
| 400122460 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.12_L03.09 | CANopen master resetting slaves although their heartbeat signal is being sent correctly |
| 400122460 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.12_L03.09 | CANopen master not able to guarantee seamless transfer of LifeGuarding packages to CANopen slaves in certain circumstances |
| 400113917 | Problem | ARSG4_3.09.14_N03.09 | ARSG4_3.09.11_K03.09 | Detecting the "Kingston DataTraveler 4 GB" flash drive |
| 400114996 | Problem | ARSG4_3.09.13_M03.09 | V3.00.90.27 SP0x | Modbus TCP slave with the "Block send mode" parameter set to "once" not behaving correctly |
| 400116764 | Problem | ARSG4_3.09.13_M03.09 | ARSG4_4.05.2_B04.05 | AsHttp: httpGetParamUrl: Empty parameter values considered |
| 400119163 | Problem | ARSG4_3.09.13_M03.09 | 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. |
| 400120185 | Problem | ARSG4_3.09.13_M03.09 | ARSG4_3.09.9_I03.09 | An additional 60 seconds required by the CPU during booting if a Modbus slave is configured on the Ethernet interface |
| 400112996 | Problem | ARSG4_3.09.13_M03.09 | ARSG4_3.09.8_H03.09 | Error 25314 – Page fault relating to AR OPC server and X20CP1485–1 |
| 400115006 | Problem | ARSG4_3.09.13_M03.09 | 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_3.09.12_L03.09 | PVI4.0.14 | Cannot change name of normal BR module when downloaded |
| 400115948 | Problem | ARSG4_3.09.12_L03.09 | 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_3.09.12_L03.09 | ARSG4_4.02.14_N04.02 | Safety I/O modules via Modbus TCP/IP haven't worked since G3.09/G4.01. |
| 400116205 | Problem | ARSG4_3.09.12_L03.09 | ARSG4_3.09.9_I03.09 | The CANopen master cannot control CANopen slaves that do not send a boot message. |
| 400107353 | Problem | ARSG4_3.09.12_L03.09 | ARSG4_3.09.8_H03.09 | DirInfo / DirRead not working in terminal mode with PP65 and USB flash drive |
| 400115006 | Problem | ARSG4_3.09.12_L03.09 | ARSG4_3.09.10_J03.09 | CANopen slaves not detected after reconnecting the CANopen master. |
| 338835 | New function | ARSG4_3.09.11_K03.09 | ARSG4_3.09.10_J03.09 | Bufferupluad of raw– and envelopesignal with up to 65535 values (incl. scaling factor) possible |
| 400105531 | Problem | ARSG4_3.09.10_J03.09 | V3.00.90.23 SP0x | CANopen master not enabling all outputs on the X20BC0043 |
| 400106522 | Problem | ARSG4_3.09.10_J03.09 | ARSG4_3.09.8_H03.09 | AR OPC > Memory leak on target with continuous OPC DCOM Connect / Read / Disconnect operations |
| 400100962 | Problem | ARSG4_3.09.10_J03.09 | ARSG4_3.09.8_H03.09 | NULL pointer exception |
| 400073463 | Problem | ARSG4_3.09.1_A03.09 | V3.00.90.14 | pICECreate on POWERLINK V2 iCN |
| 400073602 | Problem | ARSG4_3.09.1_A03.09 | V3.00.80.31 SP01 | Long boot times when ModbusTCP devices contain a large number of blocks |
| 400066089 | Problem | ARSG4_3.09.1_A03.09 | V2.7.0.4102 [V2.94] | 30479, 27306 when starting 7CP570.60–1 with four AF modules |
| 400077759 | Problem | ARSG4_3.09.1_A03.09 | – | PP65: Miscellaneous error corrections in the Powerlink implementation |
| 400077493 | Problem | ARSG4_3.09.1_A03.09 | nicht relevant | 8AC114.60–2 didn't work as a chained station with AR 3.08 |
| 279460 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_4.01.1_A04.01 | It is now possible to transfer AsSound to a target that wasn't designed for audio. |
| 400075707 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.08.1_A03.08 | MEMxinfo() returns incorrect memory size due to internal error in data storage |
| 400076732 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.9_I03.07 | Cycle time violation due to memory allocation |
| 400078143 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.9_I03.07 | Some modules (X20DO4649, X20DO8332, etc.) aren't detected when uploading hardware. |
| 400071620 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.8_H03.07 | Function block CfgSetEthConfigMode() returns Status 29005 when cfgCONFIGMODE_MANUALLY is set twice |
| 400071620 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.8_H03.07 | Function block CfgSetEthConfigMode() returns Status 29005 when cfgCONFIGMODE_MANUALLY is set twice |
| 400071807 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.8_H03.07 | ABDF1 library writes a logbook entry with Error 0 (unnecessary debug output) for each variable that is read. |
| 400072649 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.4_D03.07 | IcmpPing() function not working on ARsim – Error 32752 |
| 400070284 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.4_D03.07 | Faulty CAN frames can cause PLC to crash (PageFault) |
| 400070284 | Problem | ARSG4_3.09.1_A03.09 | ARSG4_3.07.4_D03.07 | Faulty CAN frames can cause PLC to crash (PageFault) |

| 400069483 | Problem | ARSG4_3.09.1_A03.09 | 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_3.09.1_A03.09 | ARSG4_3.06.22_V03.06 | Error copying CAN CMS objects |
| 400072106 | Problem | ARSG4_3.09.1_A03.09 | 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 – AC140 AR A3.09

ID#400069917 : solved problem, known since ARSG4_3.08.18_R03.08, solved since ARSG4_3.09.1_A03.09

AC140 does not start ACOPOS

Sometimes when booting the system, ACOPOS doesn't start and the system freezes with "network.init = ncFALSE". This is due to a problem in the CAN driver, which initializes the CAN interface with an incorrect baud rate.

#### AR – ARemb

ID# 400080378, 400081281 : solved problem, known since unbekannt, solved since ARSG4_3.09.9_I03.09

The checksum of one or more B&R modules is incorrect.

Despite having all modules stored redundantly in the file system (safe file system) it can happen that one or more B&R modules show an incorrect checksum after a number of restarts or after a CF is created.
Since the partitions show the correct status, however, this is not detected and the modules are not restored.

Since AR I3.09 this error can by eliminated by saving a blank text file named „AdditionalSecurityCheck.txt" in the root directory (C:/) of the CF card.
In this case, the AR performs an extended modul check, which will increase the boot time.

CAUTION:
Without the "AdditionalSecurityCheck.txt" file in the root directory of the CF card, the AR does not perform any extended modul check. Hence there is no change in the startup behavior, for customers who do not need this feature.

#### AR – ARsim

ID#400080347 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.2_B03.09

On some PCs the AR000 loader crashes while starting.

ID#400078969 : solved problem, known since ARSG4_4.00.22_V04.00, solved since ARSG4_3.09.2_B03.09

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.

#### AR – ARwin

ID#400123649 : solved problem, known since ARSG4_3.09.13_M03.09, solved since ARSG4_3.09.15_O03.09

APC rebooting during ARWin shutdown

Using the button "shutdown" results approx. every second use in an APC reboot

ID#400091436 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_3.09.7_G03.09

Message: "Not enough free memory" when transferring an additional visualization to ARwin.

The cause of this problem is that the number of files that can be open at a time is limited to 20. A VC module that isn't loaded to the CPU's RAM (e.g. character set) occupies a file handle. It is now possible to open 100 files at a time.

ID#400079844 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.2_B03.09

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#400081019 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.2_B03.09

Download and startup take longer

The ARwin virtual interface is considerably slower at sending data.

ID#400092904 : new function since ARSG4_3.09.7_G03.09

ARwin shuts down before being uninstalled

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

ID#400129692 : known problem since ARSG4_3.09.13_M03.09

> AR3.09 ArWin – AsTime::utcDTStructureGetTime() returning local time

> The function will not be changed for version 3.90. In version 4.02 the function is available.

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_3.09.13_M03.09

> 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.

**AR – General SG4**

ID#400079011 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.3_C03.09

> 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#400076732 : solved problem, known since ARSG4_3.07.9_I03.07, solved since ARSG4_3.09.1_A03.09

> Cycle time violation due to memory allocation

> If a thread with low priority is interrupted during memory allocation by other threads with medium priority, memory allocation of a high priority thread was blocked until the low priority thread finished. This may lead to a cycle time violation, if the runtimes of the middle priority threads are too long.
> To avoid this problem, the low priority is increased until its allocation is finished.

ID#400066308 : solved problem, known since ARSG4_3.06.22_V03.06, solved since ARSG4_3.09.1_A03.09

> 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#400076499 : known problem since ARSG4_3.08.8_H03.08

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

**AR – PP200**

ID#400079135 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.2_B03.09

> AR V3.08 doesn't work on a 4MP281.0843–13 or 4MP281.0571–12. The panel reboots cyclically. The error is corrected starting with version B3.09.

**Diagnose – Debugger**

ID# 400117277, 400118083, 400120482, 400126634, 400127839, 400128698 : solved problem, known since ARSG4_4.02.18_R04.02, solved since ARSG4_3.09.16_P03.09

> Correction when enabling line coverage

> Additional parameters are checked when line coverage is enabled.

**Diagnose – SDM**

ID#400103077 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_3.09.9_I03.09

> 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_3.09.2_B03.09

> 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.

**Diagnose – SDM .1**

ID#400105391 : solved problem, known since ARSG4_3.09.8_H03.09, solved since ARSG4_3.09.14_N03.09

> 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 – 2003 Backplane**

ID#400066089 : solved problem, known since V2.7.0.4102 [V2.94], solved since 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 – CANopen**

ID# 400133180, 400135648 : solved problem, known since ARSG4_4.02.22_V04.02, solved since ARSG4_3.09.18_R03.09

CANopen slave monitoring fails after 2.5 days.

ID#400131964 : solved problem, known since ARSG4_3.09.13_M03.09, solved since ARSG4_3.09.18_R03.09

The second CAN interface on an IF772 module freezes if there is no station on the CAN bus for an extended period of time.

ID#400125951 : solved problem, known since ARSG4_3.09.13_M03.09, solved since ARSG4_3.09.14_N03.09

CANopen master sending PDOs before the associated slave has reported status Operational

ID#400124234 : solved problem, known since ARSG4_4.02.19_S04.02, solved since ARSG4_3.09.14_N03.09

Only possible to operate one CANopen slave with an APC8x and 5AC600.CANI–00

ID#400123539 : solved problem, known since ARSG4_4.02.19_S04.02, solved since ARSG4_3.09.14_N03.09

CANopen master not receiving data (PDOs) if no inputs are configured

ID#400122460 : solved problem, known since ARSG4_3.09.12_L03.09, solved since ARSG4_3.09.14_N03.09

CANopen master resetting slaves although their heartbeat signal is being sent correctly

ID#400122460 : solved problem, known since ARSG4_3.09.12_L03.09, solved since ARSG4_3.09.14_N03.09

CANopen master not able to guarantee seamless transfer of LifeGuarding packages to CANopen slaves in certain circumstances

ID#400116205 : solved problem, known since ARSG4_3.09.9_I03.09, solved since ARSG4_3.09.12_L03.09

The CANopen master cannot control CANopen slaves that do not send a boot message.

ID#400115948 : solved problem, known since ARSG4_4.02.18_R04.02, solved since ARSG4_3.09.12_L03.09

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_3.09.13_M03.09

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

ID#400115006 : solved problem, known since ARSG4_3.09.10_J03.09, solved since ARSG4_3.09.12_L03.09

CANopen slaves not detected after reconnecting the CANopen master.

ID#400114693 : solved problem, known since ARSG4_3.09.9_I03.09, solved since ARSG4_3.09.14_N03.09

Page fault after a few hours of operation if a CPU configured for CANopen slaves is operated without any slaves

ID#400105531 : solved problem, known since V3.00.90.23 SP0x, solved since ARSG4_3.09.10_J03.09

CANopen master not enabling all outputs on the X20BC0043

ID# 400090254, 400090254 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_3.09.7_G03.09

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_3.09.6_F03.09

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

ID#400093522 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_3.09.7_G03.09

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

ID#400133216 : new function since ARSG4_3.09.18_R03.09

The CanOpenGetState() function block returns an incorrect CANopen status if a slave was not configured in Automation Studio.

ID#400116568 : known problem since ARSG4_3.09.11_K03.09

CANopen master entering emergency telegrams in the logbook that are not send on the CAN bus

ID#400093522 : known problem since ARSG4_3.09.7_G03.09

    If disconnected and reconnected, the Nord CANopen frequency inverter only continues working after the PnP timer has elapsed.

ID#400091542 : known problem since ARSG4_3.01.4_D03.01

    CANopen write sporadically returns Error 50

## IO System – General

ID#400095750 : solved problem, known since ARSG4_3.07.5_E03.07, solved since ARSG4_3.09.7_G03.09

    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_3.09.5_E03.09

    Warning 20936 fills the logbook

    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_3.07.9_I03.07, solved since ARSG4_3.09.1_A03.09

    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#400120185 : solved problem, known since ARSG4_3.09.9_I03.09, solved since ARSG4_3.09.13_M03.09

    An additional 60 seconds required by the CPU during booting if a Modbus slave is configured on the Ethernet interface

ID#400114996 : solved problem, known since V3.00.90.27 SP0x, solved since ARSG4_3.09.13_M03.09

    Modbus TCP slave with the "Block send mode" parameter set to "once" not behaving correctly

    If a block is configured as a read command with the option "Block send mode" set to "Once" for a Modbus TCP slave, then this block will be sent cyclically and cannot be triggered using a PV as is stated in the online help documentation.

ID#400073602 : solved problem, known since V3.00.80.31 SP01, solved since ARSG4_3.09.1_A03.09

    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_3.09.5_E03.09

    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_3.09.12_L03.09

    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_3.09.7_G03.09

    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_3.09.6_F03.09

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

The warning is no long entered in the logbook.

ID#400077493 : solved problem, known since nicht relevant, solved since ARSG4_3.09.1_A03.09

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#400076161 : solved problem, known since ARSG4_3.07.8_H03.07, solved since ARSG4_3.09.2_B03.09

Error 26456 in the logbook for data points on the POWERLINK interface card

When a CPU is operated as a Controlled Node (CN) in a POWERLINK network and the CPU is started before the Managing Node (MN) of the POWERLINK network, then Error 26456 is output for all data points on the POWERLINK interface card.

ID# 400043838, 400045307, 400051684 : solved problem, known since ARSG4_3.01.4_D03.01, solved since ARSG4_3.09.5_E03.09

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#286687 : new function since ARSG4_3.09.4_D03.09

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# 400095563, 400035618 : 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_3.09.2_B03.09

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#372420 : solved problem, known since ARSG4_4.02.21_U04.02, solved since ARSG4_3.09.15_O03.09

X20AIx632 modules returning "SyncStatus" error if indivisible relationship between X2X Link and system cycle time

If the X2X Link cycle time and system cycle time had an indivisible relationship, then the X2X net time is not correctly synchronized and the X20AIx632 modules return a "SyncStatus" error. The net time is now correctly synchronized even if the relationship is indivisible.

ID#317025 : known problem since ARSG4_3.09.5_E03.09

X2X modules are no longer detected if the cable is jiggled in a certain way when they are connected.

Problem since E3.09

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_3.09.7_G03.09

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_3.09.1_A03.09

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

ID#400071620 : solved problem, known since ARSG4_3.07.8_H03.07, solved since ARSG4_3.09.1_A03.09

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_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."

**Library – AsArSdm**

ID#400103036 : solved problem, known since ARSG4_4.01.7_G04.01, solved since ARSG4_3.09.9_I03.09

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.

**Library – AsCANopen**

ID#400123039 : solved problem, known since ARSG4_4.02.18_R04.02, solved since ARSG4_3.09.14_N03.09

"maxlength" parameter ignored in CANopenSDOReadData function block

ID#400081689 : solved problem, known since ARSG4_3.01.12_L03.01, solved since ARSG4_3.09.3_C03.09

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

ID#400114423 : known problem since ARSG4_3.08.22_V03.08

CANopenSDORead8() function block in the AsCANopen library returning status 65534 although called with enable = TRUE

**Library – AsDb**

ID#400095270 : solved problem, known since ARSG4_3.07.3_C03.07, solved since ARSG4_3.09.6_F03.09

AsDb: Enable is not evaluated in the dbGetData() FB.

ID#400087725 : new function since ARSG4_3.09.5_E03.09

The AsDb library returns NCHAR and NVARCHAR as ASCII strings.

**Library – AsEthIP**

ID#400099510 : solved problem, known since ARSG4_3.09.7_G03.09, solved since ARSG4_3.09.14_N03.09

When using the AsEthIP library, making a change to a task requires that the PLC be restarted in order for communication to work again.

**Library – AsEthRaw**

ID#400102773 : solved problem, known since ARSG4_3.09.7_G03.09, solved since ARSG4_3.09.8_H03.09

The limit for the number of "binds" was increased from 20 to 64. Each interface uses 3 or 4 "binds" during initialisation, leaving not enough reserve for AsEthRawOpen, which requires one for each call.

**Library – AsHTTP**

ID#400128721 : solved problem, known since ARSG4_3.09.13_M03.09, solved since ARSG4_3.09.16_P03.09

Handling of failed connection attempts in interrupted networks

ID#400116764 : solved problem, known since ARSG4_4.05.2_B04.05, solved since ARSG4_3.09.13_M03.09

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_3.09.8_H03.09

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_3.09.2_B03.09

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_3.09.1_A03.09

IcmpPing() function not working on ARsim – Error 32752

**Library – AsIODiag**

ID#400078120 : new function since ARSG4_3.09.2_B03.09

Serial number can now be read

**Library – AsIOTime**

ID#290172 : new function since ARSG4_3.09.4_D03.09

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#338835 : new function since ARSG4_3.09.11_K03.09

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_3.09.5_E03.09

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

**Library – AsSound**

ID#279460 : solved problem, known since ARSG4_4.01.1_A04.01, solved since ARSG4_3.09.1_A03.09

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 – AsUSB**

ID# 400095991, 400097876, 400101270 : solved problem, known since ARSG4_3.09.5_E03.09, solved since ARSG4_3.09.7_G03.09

RFID Reader doesn't work anymore with E3.09

Due to a driver update, the RFID Reader no longer works in AR Version E3.09. Starting with AR Version F3.09 it works again.

ID#400121091 : new function since ARSG4_3.09.15_O03.09

The behavior of the USB port is physically different due to the USB (OHCI/EHCI).

The list of node identifiers starts >0.

**Library – AsXML**

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_3.09.1_A03.09

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_3.09.8_H03.09

X20CS1070 CAN driver correction

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

ID#400089250 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.5_E03.09

Correction for CAN extended identifier (29–bit)

CAN extended identifier (29–bit) correction – Management of SG4 targets

ID#400089250 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.5_E03.09

Correction for CAN extended identifier (29–bit)

CAN extended identifier (29–bit) correction – Management of SG4 targets

ID#400069483 : solved problem, known since ARSG4_3.07.1_A03.07, solved since ARSG4_3.09.1_A03.09

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

ID#400070284 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.09.1_A03.09

Faulty CAN frames can cause PLC to crash (PageFault)

If CAN frames are received with faulty length information (> 8 bytes), this can cause the PLC to crash since data in memory is overwritten.

ID#400070284 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.09.1_A03.09

Faulty CAN frames can cause PLC to crash (PageFault)

If CAN frames are received with faulty length information (> 8 bytes), this can cause the PLC to crash since data in memory is overwritten.

**Library – DataObject**

ID# 400105461, 400128046 : solved problem, known since ARSG4_3.09.8_H03.09, solved since ARSG4_3.09.18_R03.09

Page fault when multiple data objects created simultaneously.

ID# 400082458, 400085624 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.4_D03.09

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_3.09.1_A03.09

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_3.09.2_B03.09

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_3.09.12_L03.09

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#400087197 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_3.09.5_E03.09

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_3.09.5_E03.09

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_3.09.2_B03.09

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 – LoopConR**

ID#400091435 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.5_E03.09

Error 12041 not set for LCRPIDTune

Instead of Error 12041, Warning 12002 is set.

**Library – PowerLnk**

ID#400073463 : solved problem, known since V3.00.90.14, solved since ARSG4_3.09.1_A03.09

pICECreate on POWERLINK V2 iCN

If, on a POWERLINK iCN station with a fixed size, copy tasks are created using pICECreate 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#400124801 : solved problem, known since ARSG4_3.09.13_M03.09, solved since ARSG4_3.09.14_N03.09

        CONCAT returning incorrect result in certain cases

ID#400068854 : solved problem, known since ARSG4_3.07.4_D03.07, solved since ARSG4_3.09.2_B03.09

        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_3.09.7_G03.09

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

ID#400094324 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_3.09.7_G03.09

        PV_xgetadr() doesn't work if task name >10 characters

ID#400078553 : solved problem, known since ARSG4_3.07.8_H03.07, solved since ARSG4_3.09.2_B03.09

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

**System – ANSL**

ID#400129077 : solved problem, known since VC 4.05.4, solved since ARSG4_3.09.18_R03.09

        Missing data events when writing certain event variables (data type)

        No data event is generated for certain data types (e.g. STRING) in certain circumstances (e.g. value overwritten by user task) if a write instruction is issued explicitly.

ID#400118102 : solved problem, known since ARSG4_4.02.17_Q04.02, solved since ARSG4_3.09.16_P03.09

        When processing ANSL events (PV events, module events, etc.), objects are accessed that are not yet or no longer valid at this point in time.

ID#400107287 : solved problem, known since PVI4.0.14, solved since ARSG4_3.09.12_L03.09

        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_3.09.9_I03.09

        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

ID#321550 : solved problem, known since ARSG4_3.09.7_G03.09, solved since ARSG4_3.09.9_I03.09

        Cycle time violation of the I/O scheduler during download

ID# 400077189, 400081002, 400083485 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.2_B03.09

        In rare cases a page fault occurs during ANSL.communication (_anslOnlRecvSvcData).

        When using a VC project with bit masks for PVs, in rare cases a page fault occurs during ANSI communication.

ID#400077189 : solved problem, known since ARSG4_3.08.22_V03.08, solved since ARSG4_3.09.2_B03.09

        In rare cases a page fault occurs during ANSL.communication (_anslOnlRecvSvcData).

        When using a VC project with bit masks for PVs, in rare cases a page fault occurs during ANSL communication.

**System – Firmware**

ID#400077759 : solved problem, known since unbekannt, solved since ARSG4_3.09.1_A03.09

        PP65: Miscellaneous error corrections in the Powerlink implementation

        1) In controlled node mode, the I/O mapping was not applied when the manager was restarted.
        2) The net time is not always transferred correctly to the application.
        3) POWERLINK V2 CN mode: Frequent MN failures result in CPU going into Service mode.
        4) 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.
        5) If the the Ready–Flag was canceled on the network, the ModuleOK was not cleared.

**System – INA**

ID#400085166 : solved problem, known since PVI3.00.00.3119, solved since ARSG4_3.09.8_H03.09

        Variables can no longer be read via PVI/INA2000

ID#400078848 : solved problem, known since ARSG4_3.08.18_R03.08, solved since ARSG4_3.09.2_B03.09

        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#400131463 : solved problem, known since ARSG4_3.09.11_K03.09, solved since ARSG4_3.09.17_Q03.09

OPC server no longer accepts connection after several cycles when clients do a hard power fail without proper disconnect.

ID#400127275 : solved problem, known since ARSG4_3.09.11_K03.09, solved since ARSG4_3.09.15_O03.09

Overload of OPC DA server after client deregistration as well

Registering too many client subscriptions (or registering them too quickly) on an OPC DA server (Classic OPC) resulted in system usage of 100%, which also was not reduced after the clients were deregistered.

ID#400124498 : solved problem, known since ARSG4_3.09.13_M03.09, solved since ARSG4_3.09.14_N03.09

AR OPC DA server not always updating value changes

If an OPC client writes a value to a PV, which is then changed again to a very similar value by a cyclic task shortly thereafter, it was possible that the registered subscriptions did not receive this value change.

ID#400112996 : solved problem, known since ARSG4_3.09.8_H03.09, solved since ARSG4_3.09.13_M03.09

Error 25314 – Page fault relating to AR OPC server and X20CP1485–1

ID#400106522 : solved problem, known since ARSG4_3.09.8_H03.09, solved since ARSG4_3.09.10_J03.09

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

After the restructuring of OPC and DCOM in AR 3.09, the memory problem in the current AR version (reference Y3.09) no longer occurs (in contrast to J3.09). Testing took place on an X20CP3486 and on a PP400

ID#400098685 : solved problem, known since ARSG4_3.09.6_F03.09, solved since ARSG4_3.09.7_G03.09

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_3.09.7_G03.09

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_3.09.6_F03.09

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.

ID#400092707 : solved problem, known since ARSG4_3.09.4_D03.09, solved since ARSG4_3.09.15_O03.09

Overload of OPC DA server after client deregistration as well

Registering too many client subscriptions (or registering them too quickly) on an OPC DA server (Classic OPC) resulted in system usage of 100%, which also was not reduced after the clients were deregistered. SDM was no longer available.

**System – USB Support**

ID#400126326 : solved problem, known since ARSG4_4.02.19_S04.02, solved since ARSG4_3.09.14_N03.09

USB transponder driver

USB transponder drive correction (mutex problem)

ID#400113917 : solved problem, known since ARSG4_3.09.11_K03.09, solved since ARSG4_3.09.14_N03.09

Detecting the "Kingston DataTraveler 4 GB" flash drive

Error handling in the USB EHCI driver has been updated for the "Kingston DataTraveler 4 GB" flash drive.

ID#400101362 : solved problem, known since ARSG4_3.09.7_G03.09, solved since ARSG4_3.09.8_H03.09

USB RFID reader 5E9010.29 missing characters

When using the RFID reader, not all characters are read from the chip.

ID#400087751 : solved problem, known since ARSG4_3.09.3_C03.09, solved since ARSG4_3.09.7_G03.09

USB EHCI activated for AR105 (APC/PPC) targets

USB EHCI /USB 2.0 activated for AR105 (APC/PPC) targets.

**System – WebServer**

ID#400100962 : solved problem, known since ARSG4_3.09.8_H03.09, solved since ARSG4_3.09.10_J03.09

NULL pointer exception

sdarLibPvRead and sdarLibPvWrite are checked for a null pointer exception. ERR_EXC_NIL_POINTER is returned in the event of a NULL pointer of a dynamic PV.