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### B&R Revision Information (29.05.2019) Automation Runtime SG4 D4.45

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# B&R Revision Information (29.05.2019)

## Automation Runtime SG4 D4.45

The current revision information can be downloaded from the B&R Homepage download area.[1](http://www.br-automation.com/en/downloads)

## Contents

- Requests and problems by version
- Requests and problems by product/component

## Requests and problems by version

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Problem ARSG4_4.45.3_C04.45 ARSG4_4.43.9_I04.34 If a user-defined network installation timeout is configured (not equal to 0 or -1), it is possible that network installation does not take place.

New function ARSG4_4.45.3_C04.45 ARSG4_4.34.7_G04.34 Possible error with state "Service" in ARsim when cyclically calling icmpPing() in library AsICMP.

Problem ARSG4_4.45.3_C04.45 ARSG4_4.34.10_I04.34 Function block CANopenPDOReadData() of library AsICANopen remaining in status ERR_FUB_BUSY.

Problem ARSG4_4.45.3_C04.45 ARSG4_4.26.4_D04.26 Connection to database blocked if an existing connection to another database is lost.

Problem ARSG4_4.45.2_B04.45 Delay in SDO communication at high data volumes.

Problem ARSG4_4.45.2_B04.45 nicht relevant Error in DST cache.

Problem ARSG4_4.45.2_B04.45 nicht relevant Function block ArCanGetRtrData blocked when using multiple instances.

Problem ARSG4_4.45.2_B04.45 nicht relevant Binary in AR simulation returning fiERR_PARAMETER instead of ERR_NOTIMPLEMENTED.

Problem ARSG4_4.45.2_B04.45 nicht relevant Memory leak on OPC UA client after reading Guid from OPC UA server.

Problem ARSG4_4.45.2_B04.45 nicht relevant An OPC UA write request for multidimensional arrays does not correspond to the expected result according to the OPC UA standard.

Problem ARSG4_4.45.2_B04.45 nicht relevant Watchdog triggered if the SLX module used with B&R Hypervisor system.

Problem ARSG4_4.45.2_B04.45 nicht relevant Long transfer times after rebuild.

Problem ARSG4_4.45.2_B04.45 nicht relevant Watchdog triggered if the Hypervisor target shuts down properly, the GPOS may break since the disk cache is not written completely to the disk.

Problem ARSG4_4.45.2_B04.45 nicht relevant Memory leak on OPC UA client after reading Guid from OPC UA server.

Problem ARSG4_4.45.2_B04.45 nicht relevant If a user-defined network installation timeout is configured (not equal to 0 or -1), it is possible that network installation does not take place.

Problem ARSG4_4.45.2_B04.45 nicht relevant Watchdog triggered if the GPOS shutdown takes longer than 30 seconds on a B&R Hypervisor system.

Problem ARSG4_4.45.2_B04.45 nicht relevant X20SLX910 not supported with B&R Hypervisor target system.

Problem ARSG4_4.45.2_B04.45 nicht relevant If the ARsim is in diagnostic mode and remanent PVs are configured, the ARsim stuck after the transfer at the restart.

Problem ARSG4_4.45.2_B04.45 nicht relevant An OPC UA write request for multidimensional arrays does not correspond to the expected result according to the OPC UA standard.

Problem ARSG4_4.45.2_B04.45 nicht relevant Watchdog triggered if the SLX module used with B&R Hypervisor system.

Problem ARSG4_4.45.2_B04.45 nicht relevant Possible error with state "Service" in ARsim when cyclically calling icmpPing() in library AsICMP.

Problem ARSG4_4.45.2_B04.45 nicht relevant If a user-defined network installation timeout is configured (not equal to 0 or -1), it is possible that network installation does not take place.

Problem ARSG4_4.45.2_B04.45 nicht relevant Error in DST cache.

Problem ARSG4_4.45.2_B04.45 nicht relevant AsICMP.

Problem ARSG4_4.45.2_B04.45 nicht relevant Binary in AR simulation returning fiERR_PARAMETER instead of ERR_NOTIMPLEMENTED.

Problem ARSG4_4.45.2_B04.45 nicht relevant An OPC UA write request for multidimensional arrays does not correspond to the expected result according to the OPC UA standard.

Problem ARSG4_4.45.2_B04.45 nicht relevant If a user-defined network installation timeout is configured (not equal to 0 or -1), it is possible that network installation does not take place.
**Requests and problems by product/component**

**AR – ARmb**

| ID#16780 | new function since ARSG4_4.45.3_C04.45 |
| APC910 | Support of 5AC901.i485−00 |

**AR – ARsim**

| ID#400272732 | solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.45.3_C04.45 |
| Calling TcpOpen() of library AsTcp not working correct in ARsim if parameter pIfAddr = 0 |

| ID#400271857 | solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.45.3_C04.45 |
| ARsim does not start after installation because of timing problem |
ARsim startup in DIAG after offline install

After an offline install of ARsim, it is in mode DIAG or gets stuck in "fs booting".
Tab "Console" contains the following error messages: 5159, 9654, 8099 and 37305.

ID#400271468 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.45.3_C04.45
Using X20IF10xx (DTM) modules leads to the error entry "duplicated module address" during start-up if the simulation is used.

ID#400256025 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
Simulation needing 100% CPU power and online connection lost a few minutes after "offline installation" of simulated CPU

ID#400257561 : solved problem, known since ARSG4_4.44.5_E04.44, solved since ARSG4_4.45.2_B04.45
Library ArCan causing problems in ARsim

ID# 400279175 : solved problem, known since ARSG4_4.34.10_J04.34, solved since ARSG4_4.45.4_D04.45
ARwin causing APC to restart if shutdown performed during "PIP without initial transfer"

ID#400259858 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.45.3_C04.45
Library ArCan causing problems in ARsim

AR − ARwin

ID#400279175 : solved problem, known since ARSG4_4.34.10_J04.34, solved since ARSG4_4.45.4_D04.45
ARwin causing APC to restart if shutdown performed during "PIP without initial transfer"

ID#400275757 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.45.4_D04.45
Project comparison (project files on target system) not working for ARwin

ID# 400275757 : solved problem, known since ARSG4_4.45.4_D04.45, solved since ARSG4_4.45.5_E04.45
The modification date won't be changed anymore after a warmstart

ID#400265134 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.3_C04.45
Onboard interfaces COM1 and COM2 do not work with ARwin

ID#000400253503 : new function since ARSG4_4.45.1_A04.45
New Command line option for ARwin configuration tool

ID#400242927, 400250167 : new function since ARSG4_4.45.1_A04.45
Active WriteFilter prevents start of ARwin under project install

ID#400246861 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
Watchdog error in ARwin when update requires partitioning
Installing a project on an ARwin system that requires a change in partitioning causes a watchdog error.

ID#400242446 : solved problem, known since ARSG4_4.26.4_D04.26, solved since ARSG4_4.45.1_A04.45
ARwin loader crashing after a local Windows user logs in if a Logger entry is made during an active Remote Desktop connection

ID#400248794 : solved problem, known since ARSG4_4.06.21_U04.06, solved since ARSG4_4.45.1_A04.45
Incorrect status reported by ARwin service interface during firmware upgrade of IF card

ID#400255092, 4002571478, 400272023 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.4_D04.45
ARwin not starting if too much RAM configured
ARwin does not start if too much RAM is configured. The reason for this is that ARwin needs a coherent block and this is not checked.

AR − General SG4

ID#400260994 : solved problem, known since ARSG4_4.26.7_G04.26, solved since ARSG4_4.45.4_D04.45
Target system shutdown without restart not working
ID#626700 : new function since ARSG4_4.45.3_C04.45
Initial installation of Automation Runtime Embedded not working on UEFI BIOS devices

ID#400249691 : new function since ARSG4_4.45.2_B04.45
Loading configuration data taking a long time

ID#400257323 : solved problem, known since AS4.4.04, solved since ARSG4_4.45.1_A04.45
"Compare source files" not working on certain xPCs

ID#400256358 : solved problem, known since AS4.4.04, solved since ARSG4_4.45.2_B04.45
Error in DST cache
The DST cache is not updated correctly if the clock is reset.

ID#400257728 : solved problem, known since AS4.4.04, solved since ARSG4_4.45.1_A04.45
"Compare source files" not working on certain xPCs

ID#400252428 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
AsIODiag DiagGetNumInfo not returning serial number if "Index=0" for PPC and Compact-S

ID#400256925 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.1_A04.45
AR upgrade failing if the minimum user partition size exceeds 4 GB

ID# 400253661, 400254225 : solved problem, known since ARSG4_4.26.3_C04.26, solved since ARSG4_4.45.1_A04.45
CPU sometimes booting in diagnostics mode with error 8021 entered in the Logger in the event of power failure

ID#400251002 : solved problem, known since ARSG4_4.33.1_A04.33, solved since ARSG4_4.45.1_A04.45
Error handling XML character entities
An incorrect value is returned when evaluating the XML string with character entities.

ID#589360 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
Implementation issue in RPC can cause a maliciously crafted packet to cause a buffer overflow with the possibility of executing remote code.

**AR − PPC3x**

ID#400248762 : solved problem, known since ARSG4_4.34.7_G04.34, solved since ARSG4_4.45.2_B04.45
XREC30, XEPIMC100: RS485 fist byte sometimes sent twice
Sometimes the first byte sent on the RS485 interface was sent twice and the last byte was skipped (about once in 1000 frames).

**AR − PPC7x**

ID# 400234177 : solved problem, known since ARSG4_4.34.3_C04.34, solved since ARSG4_4.45.2_B04.45
4PPC70: Network connection to IF2 (ETH) stops working
At some half duplex networks the ethernet connection on IF2 stopped working after several days or weeks. After a restart of the PLC the connection was up again.

**AR − X20CPx38x**

ID#400252159 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
UDP multicast does not work on X20CP138x
UDP multicast packages are not received on an X20CP138x module.

**AR − X20CPx58x**

ID#400277849 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.45.4_D04.45
Infinite loop caused by bug in deinitialization code

**Diagnose − Debugger**

ID#400279995 : solved problem, known since AS4.4.06 SP, solved since ARSG4_4.45.4_D04.45
PageFault im AR when debugging

ID#400273744 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.4_D04.45
PageFault while working with CtxWatch
If an interrupt is requested while jump.pad is being built, the stack of gdbserver gets corrupted.
Diagnose – Tracer
ID#400275778 : solved problem, known since ARSG4_4.34.10_J04.34, solved since ARSG4_4.45.4_D04.45
  Diagnostic Trace relink of active PV's
  Relink of active trace PV's during a program installation

IO System – CANIO
ID#400272597 : solved problem, known since ARSG4_4.34.8_H04.34, solved since ARSG4_4.45.4_D04.45
  CANIO Master copying locked
  CANIO Master copy function of CAN frames locked

IO System – CANopen
ID#400242909 : solved problem, known since ARSG4_4.44.16_P04.44, solved since ARSG4_4.45.1_A04.45
  Function block CANopenSDOWriteData() remaining in state ERR_FUB_BUSY after long cyclic use

IO System – ModbusTCP
ID#400247394 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
  Setting "Cycle time violation" for ModbusTCP_any ignored starting with a value greater than 10000 ms
ID#400239062 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
  Function block mbReadHoldingRegister
  The size of the receive buffer was less than the maximum size of the packet.

IO System – netX
ID#400261936 : solved problem, known since ARSG4_4.34.7_G04.34, solved since ARSG4_4.45.2_B04.45
  System exception in netX drivers when using unaligned addresses (I/O image of the PROFIBUS slaves)

IO System – openSafety
ID#400245556 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
  SafeDESIGNER "Compare to SafePLC project" works now
  SafeDESIGNER "Compare to SafePLC project" works now

IO System – Powerlink
ID#619075 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.3_C04.45
  Firmware update of X2XLink module at POWERLINK Stations does not work since H4.34
  Since H4.34 the firmware update of X2XLink modules connected to X67BC8321−1 did not work, if they are connected to
  POWERLINK−Buscontrollers that have no explicit enable for streaming.
  Problem occurs on BC and SL:
  X20BC0083 X20cBC0083 < HW−Upgrade 2.5.0.0
  X20BC1083 X20cBC1083 < HW−Upgrade 2.5.0.0
  X20BC0803 X20cBC0803 < HW−Upgrade 2.5.0.0
  X20BC0804 X20cBC0804 < HW−Upgrade 2.5.0.0
  X20SL0101 X20cSL0101 X67BC81RT.L12 < HW−Upgrade 2.5.0.0
  X67BC8321−1
  X67BC8331
  X67BC8513.L12

ID#400257067 : solved problem, known since ARSG4_4.34.7_G04.34, solved since ARSG4_4.45.2_B04.45
  POWERLINK: Controlled node + Multiplexing
  Cyclic changeover buffer switching did not work in mode "Controlled node + Multiplexing" with the onboard POWERLINK interface of the
  Compact−S.

ID#400250347 : solved problem, known since ARSG4_4.10.12_L04.10, solved since ARSG4_4.45.2_B04.45
  Warning 26051 with "Set baudrate failed 102" in ASCII Data when POWERLINK Interface is used as Ethernet
  Depending on timing during startup, sometimes the warning 26051 with ASCII Data "Set baudrate failed 102" was generated in Logbook when
  the POWERLINK Interface is used as Ethernet Interface.

ID#400248816 : solved problem, known since ARSG4_4.10.16_P04.10, solved since ARSG4_4.45.1_A04.45
X20CPx58x: Ethernet frame on IF3 (POWERLINK) may delay TC#1

When the POWERLINK interface is used as Ethernet interface, and there are a lot of small frames, there are a lot of POWERLINK interrupts that cause delays to TC#1. Therefore, the TC#1 in some applications had cycle time violations on heavy Ethernet traffic. The priority for handling the Ethernet frames was lowered so that there is now lower influence to TC#1.

ID#40029368 : solved problem, known since unbekannt, solved since ARSG4_4.45.2_B04.45
Delay in SDO communication at high data volumes

ID#400242428 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
POWERLINK: DNA not working
DNA did not work with the onboard POWERLINK interface of the Compact-S.

IO System -- X20CPx38x Onboard IO

ID#4002466021 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
X20CP138xRT: register access works now with register number
A register access by using the AsIOAcc works now also with the register number

IO System -- X22

ID#593725 : new function since ARSG4_4.45.1_A04.45
Optimized timing for cyclic stream interface modules at redundancy switch

IO System -- X90CPxxx Onboard IO 4

ID#609129 : solved problem, known since ARSG4_4.34.1_A04.34, solved since ARSG4_4.45.2_B04.45
X90CP17x Onboard-IO: Current feedback of PWM output at setting “Actual value” sometimes wrong when measurement is on output flank
Due to effects from the common mode rejection the “Actual value” of the current sometimes showed odd values, when the measurement was taken on the PWM signal flank.

Library -- ArCan

ID#400250866, 400257578 : solved problem, known since nicht relevant, solved since ARSG4_4.45.2_B04.45
Function block ArCanGetRtrData blocked when using multiple instances

Library -- ArCert

ID# 400250980, 400256571 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
Unable to create OPC UA certificate in Automation Runtime at runtime
ID#400252137 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
Function block ArCertGenerate() in library ArCert generating a certificate without text information (issuer, subject) if non UTF-8 compliant character specified

Library -- AsANSL

ID#400253635 : solved problem, known since ARSG4_4.45.1_A04.45
Directly derived types lead to a datatype error (31886) during AsANSL communication.

Library -- AsARCfg

ID#400278344 : solved problem, known since ARSG4_4.45.4_D04.45
CfgSetHostName no longer setting hostname

Library -- AsCANopen

ID#400270119 : solved problem, known since ARSG4_4.34.10_J04.34, solved since ARSG4_4.45.3_C04.45
Function block CANopenPDORead8() of library AsCANopen remaining in status ERR_FUB_BUSY

Library -- AsDb

ID#400232327 : solved problem, known since ARSG4_4.26.4_D04.26, solved since ARSG4_4.45.3_C04.45
Connection to database blocked if an existing connection to another database is lost
ID#400268193 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.3_C04.45
No more sockets available after short amount of time when establishing a connection to an SQL database cyclically in the application with library AsDb

Library -- AsEthIP

ID#400244757 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
AsEthIP not keeping CONRPI time
Library − AsGuard
ID#400261910 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
Function block guardGetNeededLicenses() in library AsGuard returning incorrect neededCount value

Library − AsHost
ID#400281752 : solved problem, known since ARSG4_4.10.19_S04.10, solved since ARSG4_4.45.4_D04.45
Use of a wrong domain name after DHCP offer

Library − AsIcmp
ID#400233318 : solved problem, known since ARSG4_4.34.2_B04.34, solved since ARSG4_4.45.1_A04.45
Function block IcmpPing incorrectly recognizing ICMP packets as a valid ping response

Library − AsMcDcs
ID#400265841 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.4_D04.45
New additive mode ASMDCS_MODE_FORCE_BEHAVIOR_2
This mode can be used to influence the behavior of the function block when forcing the output.
The following function blocks have been extended:
− ASMcDcsTimedDigitalCamSwitch

ID#400232542 : new function since ARSG4_4.45.1_A04.45
ASMcDcsGeneralDigitalCamSwitch: New mode ASMDCS_MODE_DIRECT_SET_VALUE
With this mode, the function block starts immediately within the current period and sets the output according to the current cam.

ID#400296634 : solved problem, known since ARSG4_4.26.4_D04.26, solved since ARSG4_4.45.1_A04.45
ASMcDcsGeneralDigitalCamSwitch: "DisableNegativeDirection" active if input value not equal to 0.0f
If a value other not equal to 0.0f is specified for parameter "ASMcDcsGdcsTrackType.DisableNegativeDirection", the calculation of the switching instants is disabled in the event of negative movement direction of the axis.

Library − AsNxCoM
ID#400261419 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
NetX bus controller log entry 33760

Library − AsOpcUac
ID#400268989 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.3_C04.45
UA_Connect allocating an empty string to EncryptionAlgorithm instead of a null string as required by the OPC UA standard
Some servers reject the IdentityToken with the empty string instead of a null string with error BadIdentityTokenInvalid (0x80200000).

ID#400251949 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
Error when creating a monitored item using AsOpcUac on Siemens server
Due to an error in the Siemens OPC UA server, it is not possible to create a MonitoredItem with UA_MonitoredItemAdd or UA_MonitoredItemAddList. The block uses the NodeId supplied by RegisterNode from the server via UA_NodeGetHandle. However, the server does not accept this previously delivered NodeId in CreateMonitoredItems. The block was changed and now uses the original NodeId specified on the UA_NodeGetHandle.

Library − AsOpcUas
ID#400247389 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
Possible page fault when using block UaSrv_MethodOperate in a user library when the library is transferred

Library − AsWStr
ID#400259531 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.3_C04.45
Reversed descriptions and tooltips of constants UCtoU8 and U8toUC in libraries AsBrWStr and AsWStr.

Library − AsXML
ID#637970 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.45.4_D04.45
Cannot read XML file encoded with ISO–8859–1 with a special character comment
ID#400242597 : solved problem, known since ARSG4_4.34.3_C04.34, solved since ARSG4_4.45.1_A04.45
Entire memory not freed up when finished parsing an XML file with library AsXml (memory leak)
Library − CAN_lib
ID#400264347 : solved problem, known since ARSG4_4.34.9_I04.34, solved since ARSG4_4.45.4_D04.45
CAN_Lib: Initialization of CAN interface on X20CS does not work with controller redundancy
ID#400267865 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.3_C04.45
Library CAN_Lib Correction CMSinit() + CMSmain()
For AR versions >= A4.31, the event variables specified in the CMS data module have not been set correctly
ID#400243703 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
CAN_Lib.br error status 8807 (ERR_CAN_WRDEF) changed
Adjusting of the error status 8807 (ERR_CAN_WRDEF)

Library − DRV_mbus
ID#400258332 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.4_D04.45
Modbus slave incorrectly decoding command “Force multiple coils”, resulting in invalid values

Library − FileIO
ID#400257289 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
DevLink in AR simulation returning ERR_PARAMETER instead of ERR_NOTIMPLEMENTED
ID#601615 : solved problem, known since ARSG4_4.26.9_I04.26, solved since ARSG4_4.45.1_A04.45
File operations on different files serialized and executed via library FileIO
ID#400246606 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
Unexpected exception in ARsim when using function blocks DirDeleteEx and DirCopy with a network drive path

System − ARES
ID#400250771 : solved problem, known since ARSG4_4.34.6_F04.34, solved since ARSG4_4.45.1_A04.45
Permanent process variable initialized during project installation if used in new task

System − CAN
ID#400252449 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
CAN transmitting optimized
Optimization of the CAN transmit function for CAN interfaces LS1xxx and X20IFxxxx
ID#400245659 : solved problem, known since AS4.3.04 SP, solved since ARSG4_4.45.1_A04.45
CAN bit timing setting
Routing via "bit timing setting" did not work.

System − Hypervisor
ID# 400269033, 400270000 : solved problem, known since ARSG4_4.61.25_Y04.61, solved since ARSG4_4.45.3_C04.45
Unable to install B&R Hypervisor on second CFast card on a legacy system
ID#400261927 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
Remanent variables often lost and log message 26263 entered after power failure on B&R Hypervisor system
ID#607100 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.2_B04.45
Watchdog triggered if the GPOS shutdown takes longer than 30 seconds on a B&R Hypervisor system
ID# 400260216, 400266757 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
Watchdog triggered if SLX module used with B&R Hypervisor system
ID#400256537 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.1_A04.45
If a hypervisor target shuts down properly, the GPOS may break since the disk cache is not written completely to the disk.
ID#602990 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.2_B04.45
Remanent variables possibly lost on B&R Hypervisor target during power failure
ID# 400261977 : solved problem, known since ARSG4_4.44.1_A04.44, solved since ARSG4_4.45.2_B04.45
X20SLX910 not supported with B&R Hypervisor target system
System – NTP

ID#400285988 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.4_D04.45
Disabling NTP monitoring
Command "monlist" can no longer be called externally.

ID# 400213234, 400226358, 400241747, 400240596, 400248666, 400248645 : new function since ARSG4_4.45.1_A04.45
Configurable stratum of local clock
The quality of the local clock of an NTP server is freely selectable by configuring the stratum.

System – OPC UA

ID#400283830 : solved problem, known since ARSG4_4.45.3_C04.45, solved since ARSG4_4.45.4_D04.45
BadDataTypeIdUnkown (0x80110000) error occurs for subscription items, which are already connected during the start up of the OPC UA server.
ID#612815 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.2_B04.45
UA_MonitoredItemAddList triggering data abort exception on certain target systems
When setting up monitored items, depending on the timing, it is possible that the server already transmits data change notifications to the client and the client crashes with a data abort exception during processing since the data of the Create Monitored Items response provided by the server has not yet been fully processed. The problem could only be observed on ARM processors with many connections (>30) to other servers.
ID#400261689 : solved problem, known since ARSG4_4.34.8_H04.34, solved since ARSG4_4.45.2_B04.45
An OPC UA write request for multidimensional arrays does not correspond to the expected result according to the OPC UA standard.
ID#400259480 : solved problem, known since ARSG4_4.26.9_I04.26, solved since ARSG4_4.45.2_B04.45
The system may run into a PageFault if UA_Disconnect is called while a connection established with UA_Connect is in reconnection state
Generally the user program should not call UA_Disconnect with the intention to reestablish a lost connection. The system performs reconnection of all connections established with UA_Connect in the background. The program should check with UA_ConnectionGetStatus if the connection is back again. This is due to different timeouts on Sessions and Subscriptions. They may still exists on the server in which case the client reuses all those objects. If the program forces a UA_Disconnect with an already lost connection those still existing objects on the server are not reused and created new instead. The reconnection sequence is explained in the OPC−UA standard and the client connections implement this behavior.
ID#607640 : solved problem, known since ARSG4_4.34.8_H04.34, solved since ARSG4_4.45.2_B04.45
Memory leak on OPC UA client after reading Guid from OPC UA server
If a value of data type Guid is read using UA_Read, UA_ReadList or UaClt_ReadBulk, a memory leak occurs. For each access, 12 bytes of memory are no longer freed up.
ID#400258320 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.2_B04.45
Period in browse path not supported by OPC UA any and UA_Translate
When using periods in the browse path, block UA_Translate returns error BadNotMatch (0x806F0000) even if the period was escaped with the & character.
ID#400250617 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
OPC UA server reports no change if monitored variable set to 0
If a MonitoredItem is created with the trigger StatusValueTimestamp, the server reports no change if the value of a variable is changed from a value other than 0 to 0.
ID#598835 : solved problem, known since ARSG4_4.44.5_E04.44, solved since ARSG4_4.45.1_A04.45
UA_Connect unexpectedly reporting error BadIdentityTokenInvalid
If the OPC UA server uses an empty or zero string in the SecurityPolicyUri of the username IdentityToken, the block unexpectedly reports error BadIdentityTokenInvalid. In this case, the OPC UA standard provides that the client on an endpoint without encryption uses the endpoint's security policy. If the endpoint already uses encryption, the password is encrypted anyway.
ID#598830 : solved problem, known since ARSG4_4.44.5_E04.44, solved since ARSG4_4.45.1_A04.45
AsOpcUac not allowing connection to a server that sets RevisedLifeTime of SecureChannel to less than 10 minutes
The configuration of the OPC UA system has been changed from 10 minutes to 5 minutes. It is thus possible to connect to servers that set 5 minutes to 1 hour for RevisedLifeTime.
ID#400249385 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
Authorization for nodes in the PLCopen model of the OPC UA server not working under certain circumstances
The problem only occurs in model version 1.00 and affects programs and the first level of global variables. The problem occurs if the permissions for a program or a global variable are not inherited but are configured explicitly on the node. In this case, the configured rights are ignored and the rights of the parent node are applied.

ID#591215 : solved problem, known since ARSG4_4.34.6_F04.34, solved since ARSG4_4.45.1_A04.45

Problem with output ErrorID of blocks from AsOpcUas when used in initialization and exit subroutines
When using blocks of library AsOpcUas in the initialization and exit routines, outputs Error and ErrorID are not set correctly in the event of error.

ID#400247582 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45
Memory leak in OPC UA server when accessing variable nodes if the subordinate PV does not exist

ID#400243594 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.45.1_A04.45
Client UserID in OPC UA audit events empty
Audit events created as a result of ActivateSession and CloseSession do not contain the user's login data as required.

System – Text System

ID#400263584 : solved problem, known since mappView 5.3.4, solved since ARSG4_4.45.4_D04.45

Undefined key is shown sporadically when changing languages

System – Transfer

ID#400273915 : solved problem, known since ARSG4_4.34.7_G04.34, solved since ARSG4_4.45.4_D04.45
Permanent variable values lost when installing a program
If an already existing permanent variable is reused in a task in the course of project installation, it is initialized with 0.

ID#400265266 : solved problem, known since ARSG4_4.34.9_I04.34, solved since ARSG4_4.45.3_C04.45
If a user–defined network installation timeout is configured (not equal to 0 or –1), it is possible that network installation does not take place.

ID#400268693, 400266441, 400271570, 400272527, 400273733, 400274585, 400272303 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.45.3_C04.45

Project installation: Controller restarting although not indicated
During online project installation, the controller restarts although this is not displayed in the dialog box.
In addition, info 1076899117 (project installation rejected) is entered multiple times in the logbook.

ID# 400269193, 400266367, 400269200 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.3_C04.45

Project installation: Controller restarting although not indicated
During online project installation, the controller restarts although this is not displayed in the dialog box.
In addition, info 1076899117 (project installation rejected) is entered multiple times in the logbook.

ID# 400257243 : solved problem, known since ARSG4_4.34.3_C04.34, solved since ARSG4_4.45.2_B04.45

Asynchronous creation of file directory – files on CFast cards destroyed very quickly if read massively and continuously

ID#400262373 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.3_C04.45

Long transfer times after rebuild

ID# 400260146, 400260919 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.45.4_D04.45

Target no longer booting after PIP install from user partition

ID# 400257312 : solved problem, known since ARSG4_4.44.2_B04.44, solved since ARSG4_4.45.1_A04.45

"MpBackup" not working with files on the user partition that not transferred with the project installation method

System – USB Support

ID#400246561 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.45.1_A04.45

DVFrame Library: Invalid data length for the Fub FRM_read() if a usb device (transponder, barcodereader,printer) is disconnected
In the Fub FRM_read () an invalid data length (buflng = 65535) is set when a USB device is disconnected (USB transponder, USB barcode reader, USB printer), even though the FRM_read () status = 0