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## B&R Revision Information (16.10.2019)
### Automation Runtime SG4 C4.53

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

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#### Requests and problems by version

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<td>Possible loss of system tick when removing USB flash drive (logbook entry 27309 AR-SIOS: Failed system tick*).</td>
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<td>400298571</td>
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<td>400293144</td>
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<td>Initial transfer without active ARw in loader after ARwin installation not working.</td>
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<td>Transfer dialog box reporting successful installation on hypervisor target system even though it is not yet completed.</td>
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<td>400286864</td>
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<td>Infinite loop caused by bug in deinitialization code.</td>
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<td>Hardware change in AS project (and transfer) only recognized after manual restart if configuration previously imported via MpiO.</td>
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<td>400275778</td>
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<td>Diagnostic Trace reliek of active PVs.</td>
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Requests and problems by product/component

1A4000.02 (2.0 Automation Runtime SG4)

AR − Aremb

ID#400288927 : solved problem, known since ARSG4_4.34.11_K04.34, solved since ARSG4_4.53.3_C04.53
Corrected USB disconnect in operating system

ID#400285956 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.53.2_B04.53
No driver support for PixCir touch device

The PixCir touch controller is not detected via VendorID and ProductID.

AR − ARsim

ID#400291008 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.53.3_C04.53
Possible ARsim offline failure if logger entries generated cyclically

ID#400272732 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.1_A04.53
Calling TcpOpen() of library AsTcp not working correctly in ARsim if parameter pIfAddr = 0

ID# 400257009, 400257858 : solved problem, known since AS4.4.04, solved since ARSG4_4.53.1_A04.53
Library ArCan causing problems in ARsim

ID#400271468 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.1_A04.53
Using X20IF10xx (DTM) modules leads to the error entry "duplicated module address" during start-up if the simulation is used.

AR − ARx

ID#400291008 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.53.3_C04.53
Possible ARsim offline failure if logger entries generated cyclically

ID#400272732 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.1_A04.53
Calling TcpOpen() of library AsTcp not working correctly in ARsim if parameter pIfAddr = 0

ID# 400257009, 400257858 : solved problem, known since AS4.4.04, solved since ARSG4_4.53.1_A04.53
Library ArCan causing problems in ARsim

ID#400271468 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.1_A04.53
Using X20IF10xx (DTM) modules leads to the error entry "duplicated module address" during start-up if the simulation is used.
AR – ARwin
ID#400289278 : solved problem, known since ARSG4_4.45.3_C04.45, solved since ARSG4_4.53.3_C04.53
Possible sporadic memory error when starting ARwin as a service in automatic mode
ID#400285722 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.53.2_B04.53
Initial transfer without active ARwin loader after ARwin installation not working
ID#400280047 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.1_A04.53
ARwin not starting if bridging used
ID#400275757 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.2_B04.53
Project comparison (project files on target system) not working for ARwin
ID# 400250928, 400251478, 400272023 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.53.1_A04.53
The modification date won't be changed anymore after a warmstart

AR – General SG4
ID#400298009 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.53.3_C04.53
Invalid XML content in COSY NV modules caused by XML in some circumstances This results in an install error and diagnostic mode after a restart.
ID#400260994 : solved problem, known since ARSG4_4.26.7_G04.26, solved since ARSG4_4.53.1_A04.53
Target system shutdown without restart not working

AR – PPC3x
ID#400292029 : solved problem, known since ARSG4_4.34.11_K04.34, solved since ARSG4_4.53.3_C04.53
After FRM_close and FRM_xopen sometimes wrong bytes are sent on RS485 interface of C30
When the Onboard−RS485 interface of the C30 family was closed by FRM_close and afterwards reopened by FRM_xopen, sometimes (1:1000) the first byte in the sent frame was doubled and the last byte missing.

AR – X20CPx58x
ID#400277849 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.2_B04.53
Infinite loop caused by bug in deinitialization code

AR – xPC2200
ID#626705 : Information valid since ARSG4_4.53.1_A04.53
Initial installation of Automation Runtime Embedded not working on UEFI BIOS devices

Diagnose – Debugger
ID#400273744 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.53.2_B04.53
PageFault while working with CtxWatch
If an interrupt is requested while jump pad is being built, the stack of gdbserver gets corrupted.
ID#400279995 : solved problem, known since AS4.4.06 SP, solved since ARSG4_4.53.2_B04.53
PageFault im AR when debugging

Diagnose – Profiler
ID#400296396 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.3_C04.53
Profiler can not display the name of an updated program

Diagnose – SDM
ID#400292378 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.3_C04.53
Deadlock in the event of error
If the system dump cannot be started, a deadlock is not permitted to occur.

Diagnose – Tracer
ID#400275778 : solved problem, known since ARSG4_4.34.10_I04.34, solved since ARSG4_4.53.2_B04.53
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_4.53.2_B04.53

CANIO Master copying locked
CANIO Master copy function of CAN frames locked

IO System – CANopen

ID#400274174: solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.53.3_C04.53

Target not starting up if invalid COB ID specified for TPDO or RPDO of a CANopen slave in Automation Studio

IO System – Powerlink

ID#660505: solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.53.3_C04.53

POWERLINK: On X20CP048x and X90CP174 a ready flag read via powerlink Library was not reset for failed station

When a CN station failed, the ready flag was not reset. This problem only occurred on the onboard POWERLINK interface of X20CP048x and X90CP172 in combination of the pCECreate function of the powerlink library. The problem indirectly also affects ACOPOS inverter stations handled by mappMotion on this interfaces.

ID#400292884: solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.3_C04.53

Multi Poll Response in combination with multiplexing did not work for X20SL8101

ID#400287896: solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.53.3_C04.53

High CPU load caused by SiteManager

ID#645115: solved problem, known since nicht relevant, solved since ARSG4_4.53.1_A04.53

Error correction: DNA tree topologies not always started up correctly

ID#519080: solved problem, known since ARSG4_4.51.1_A04.51, solved since ARSG4_4.53.3_C04.53

Firmwareupdate 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:
X20BC1083 X20cBC1083 < HW−Upgrade 2.5.0.0
X20BC8084 X20cBC8084 < HW−Upgrade 2.5.0.0
X67BCB1RT.L12 < HW−Upgrade 2.5.0.0
X67BC8321−1
X67BC8331
X67BC8519.L12

Library – AsARCfg

ID#400278344: solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.53.2_B04.53

CfgSetHostName no longer setting hostname

Library – AsCANopen

ID#400270119: solved problem, known since ARSG4_4.34.10_J04.34, solved since ARSG4_4.53.1_A04.53

Function block CANopenPDORead8() of library AsCANopen remaining in status ERR_FUB_BUSY

Library – AsDb

ID#400286894: solved problem, known since ARSG4_4.45.3_C04.45, solved since ARSG4_4.53.2_B04.53

Page fault due to library AsDB if the connection to the SQL database is interrupted

Library – AsHost

ID#400281752: solved problem, known since ARSG4_4.10.19_S04.10, solved since ARSG4_4.53.2_B04.53

Use of a wrong domain name after DHCP offer

Library – AsHTTP

ID#400277321: solved problem, known since ARSG4_4.45.3_C04.45, solved since ARSG4_4.53.2_B04.53

AsHttp: httpService: One positive edge on the abort command aborts multiple requests.

Requests can be aborted with the “abort” command of the httpService FB. If the abort command is set over multiple calls (only one rising edge), not only the current, but also the next request to the httpService is aborted.
Library − AsMcDcs
ID#645315 : solved problem, known since nicht relevant, solved since ARSG4_4.53.2_B04.53
  ASMcDcsTimedDigitalCamSwitch: Sporadic occurrence of exception
  When using function block ASMcDcsTimedDigitalCamSwitch error "25316: AR−RTK: EXCEPTION floating−point error" could occur.

ID#400265841 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.53.2_B04.53
  New additive mode ASMCDCS_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

Library − AsOpcUac
ID#400293144 : solved problem, known since ARSG4_4.26.11_K04.26, solved since ARSG4_4.53.3_C04.53
  The reconnect of the AsOpcUac to a WinCC server leads to a watchdog after a connection abort, where the session timeout expires.

ID#400281313 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.2_B04.53
  Memory leak in block UA_NodeGetHandle from library AsOpcUac
  The block causes a memory leak approximately equal to the length of the node ID of the registered node. As a rule, the block is not used
cyclically and does not cause any acute problems in this use case.

Library − AsXML
ID#400285814 : solved problem, known since ARSG4_4.45.3_C04.45, solved since ARSG4_4.53.2_B04.53
  XML file with single quotation mark in the XML declaration causing page fault in function block xmlReadNextNode() of library AsXml
ID#638405 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.2_B04.53
  Cannot read XML file encoded with ISO−8859−1 with a special character comment
ID#638015 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.1_A04.53
  Cannot read XML file encoded with ISO−8859−1 with a special character comment

Library − CAN_lib
ID#400264347 : solved problem, known since ARSG4_4.34.9_I04.34, solved since ARSG4_4.53.1_A04.53
  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_4.53.1_A04.53
  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

Library − DRV_mbus
ID#400278980 : solved problem, known since ARSG4_4.26.11_K04.26, solved since ARSG4_4.53.2_B04.53
  Modbus slave also responding to broadcast
ID#400258332 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.53.1_A04.53
  Modbus slave incorrectly decoding command “Force multiple coils”, resulting in invalid values

Library − DVFrame
ID#628280 : solved problem, known since ARSG4_4.34.7_G04.34, solved since ARSG4_4.53.1_A04.53
  FRM_xopen for X20CS in Cyclic Stream does not work on Controller Redundancy if no parameters are given

Library − FileIO
ID#400267673 : solved problem, known since ARSG4_4.10.19_S04.10, solved since ARSG4_4.53.3_C04.53
  CIFS: Sporadic page faults if USB flash drive briefly disconnected and reconnected
  If a USB flash drive is briefly disconnected and reconnected during directory access, the CIFS stack may trigger a page fault exception by
  incorrectly recognizing the access type (file, directory).

ID#400277518 : solved problem, known since mappView 5.5.0, solved since ARSG4_4.53.2_B04.53
Error behavior when using asynchronous function blocks from a task that was not created with the RTK functions when exception TC enabled

System – Access and Security
ID#625740 : solved problem, known since ARSG4_4.53.25_Y04.53, solved since ARSG4_4.53.1_A04.53
ANSL connection not always started after reboot when establishing a secure connection

System – ANSL
ID#400262271 : new function since ARSG4_4.53.3_C04.53
ANSLAPROL: Registration of PVs via ANSL driver stops cross-communication
Due to the absence of a dynamic SendDelay, interruptions in cross-communication can occur during registration of the PVs. Implementing a dynamic SendDelay would remedy this situation.

System – Controller Redundancy
ID#400265490 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.53.1_A04.53
No automatic redundancy switchover in the event of double error
Specification change to allow an automatic redundancy switchover in the event of a double error on the POWERLINK I/O system

System – Hypervisor
ID#634985 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.53.2_B04.53
Transfer dialog box reporting successful installation on hypervisor target system even though it is not yet completed
ID# 400267831, 400273101 : solved problem, known since ARSG4_4.44.5_A04.45, solved since ARSG4_4.53.1_A04.53
Keyboard input on SAP980.1505–B10 hypervisor system not working in GPOS
ID# 400271965, 400275569 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.53.1_A04.53
Windows Ethernet driver not working with function reset
Since the Windows driver cannot handle Function Level Reset (FLR), it had to be added in the hardware configuration that for the Ethernet interface a hard reset should be used and not an FLR.

System – NTP
ID#400285988 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.53.2_B04.53
Disabling NTP monitoring
Command "monlist" can no longer be called externally.

System – OPC UA
ID#400297676 : solved problem, known since ARSG4_4.53.2_B04.53, solved since ARSG4_4.53.3_C04.53
The UA_Connect call leads to a memory leak if an SSL configuration is entered in the SessionConnectInfo that is not available on the CPU.
ID#400267167 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.53.3_C04.53
UA_Connect not connecting to server that has a UsrIdentityToken with a security policy that is NULL or empty
The problem occurs if SessionConnectInfo.SecurityPolicy None is selected. Instead of establishing a connection as expected, the output ErrorID is set to 0x80200000.
ID#400285815 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.2_B04.53
OPC UA method causing memory leak
Calling an OPC UA method can lead to a memory leak of 15 to 31 bytes per call. The problem occurs in versions A4.45 to B4.52.
ID#400286490 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.2_B04.53
In the course of a transfer of a change in the OPC UA Default View, all buffers for historical variables are reallocated.
This behavior can lead to a situation that the historizing does not work after a transfer, especially with very large configured buffers.
ID#400270812 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.53.2_B04.53
Page fault when reading null string with UaClt_ReadBulk
If a variable of data type String is read from an OPC UA server using UaClt_ReadBulk, a page fault occurs if the variable on the client is of data type WSTRING and the server returns a null string. If the server supplies regular data or an empty string or if the client uses data type STRING, the problem does not occur.
BadDataTypeUnknown (0x80110000) error occurs for subscription items, which are already connected during the start up of the OPC UA server.

Incorrect ServiceResult for OPC UA methods implemented with UaSrv_MethodOperate since A4.51, methods without property InputArgument return ServiceResult "Good" if called with one or more arguments. ServiceResult "BadTooManyArguments" is expected, however.

Option prjDependent missing when creating XML folder tag in toc.c

System mass storage replacement not detected correctly in some cases; replacement detected although no replacement performed.

Hardware change in AS project (and transfer) only recognized after manual restart if configuration previously imported via MpIO.

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.

Target no longer booting after PIP install from user partition.

Project installation: Controller restarting although not indicated.

During online project installation, the controller restarts although this is not displayed in the dialog box.

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.

Incorrect value application when switching context of a process variable (permanent remanent) during project installation.