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**B&R Revision Information (25.11.2019) Automation Runtime SG4 C4.72**

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B&R Revision Information (25.11.2019)
Automation Runtime SG4 C4.72

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
- Requests and problems by product/component

Requests and problems by version

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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_4.72.1_A04.72
Corrected USB disconnect in operating system

ID#400285956 : solved problem, known since ARSG4_4.34.4_D04.34, solved since ARSG4_4.71.1_A04.71
No driver support for PixCir touch device
The PixCir touch controller is not detected via VendorID and ProductID.

ID#626395 : new function since ARSG4_4.71.1_A04.71
Number of mapp View connections limited by possible socket and file number

AR – ARsim
ID#400283043 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.72.1_A04.72
ARsim restart failing if cyclic logger entries are generated

ID#639395 : solved problem, known since ARSG4_4.71.25_Y04.71, solved since ARSG4_4.71.1_A04.71
Warning 8093 "SYSCONF module: No entry for task (priority)" displayed in logbook when using serial interface on ARsim

ID#400272732 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.71.1_A04.71
Calling TcpOpen() of library AsTcp not working correct in ARsim if parameter pfAddr = 0

AR – General SG4
ID#400298009 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.72.1_A04.72
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#659255 : solved problem, known since ARSG4_4.63.1_A04.63, solved since ARSG4_4.72.2_B04.72
This version is affected by the URGENT/11 VxWorks vulnerability.

ID#400296578 : solved problem, known since ARSG4_4.34.10_J04.34, solved since ARSG4_4.72.2_B04.72
DoS vulnerability in System Diagnostics Manager

ID#400280190 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.71.1_A04.71
Module transfer check in event of error
When transferring a B&R module, an internal memory access is checked for NULL in the event of error.

ID#400260994 : solved problem, known since ARSG4_4.26.7_G04.26, solved since ARSG4_4.71.1_A04.71
Target system shutdown without restart not working

ID#400195322 : solved problem, known since ARSG4_3.10.5_E03.10, solved since ARSG4_4.71.1_A04.71
High CPU load preventing data from being transmitted or received on a serial interface

AR – PPC3x Y4.72.36
ID#400292029 : solved problem, known since ARSG4_4.34.11_K04.34, solved since ARSG4_4.72.1_A04.72
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.

ID#400292029 : solved problem, known since ARSG4_4.34.11_K04.34, solved since ARSG4_4.71.5_E04.71
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 – X20CP04xx
ID#644730 : solved problem, known since nicht relevant, solved since ARSG4_4.71.1_A04.71
Error correction: DNA tree topologies not always started up correctly

AR – X20CPx58x
ID#400277849 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.71.1_A04.71
Infinite loop caused by bug in deinitialization code

AR – X90CPx
ID#400270272 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.71.1_A04.71
X90 modules not recognized by SDM
The following X90 modules are not recognized by SDM if they were not previously configured in the project:
X90AO410.04−00
X90AO410.08−00
X90AT910.04−00
X90AT910.08−00
X90CM480.04−00
X90DI110.10−00
X90PO210.08−00

AR – xPC2200
ID#626680 : solved problem, known since ARSG4_4.71.25_Y04.71, solved since ARSG4_4.72.2_B04.72
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_4.71.1_A04.71
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_4.71.1_A04.71
PageFault in AR by debugging

Diagnose – Profiler
ID#400296396 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.72.1_A04.72
Profiler can not display the name of an updated program
ID#4002757129 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.71.1_A04.71
No automatic profiling during startup
A persisted profiler definition module whose configuration is intended to prevent the profiler from starting automatically is only installed during startup.

Diagnose – SDM
ID#400292378 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.72.1_A04.72
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_J04.34, solved since ARSG4_4.71.1_A04.71
Diagnostic Trace relink of active PV’s
Relink of active trace PV’s during a program installation

IO System – CANopen
ID#643005 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.71.1_A04.71
CANopen master not setting input data of a CANopen slave to 0 if it changes from “Operational” to another state (e.g. “Preoperational”)

IO System – OPC UA
ID#400266382 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.71.1_A04.71
The connection establishment to an OpcUa_any Device (ModuleOk = True) is extended, if further OpcUa_any Devices are configured where the connection can not be established.

IO System – Powerlink
ID#660515 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.72.1_A04.72
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 pICECcreate function of the powerlink library. The problem indirectly also effects ACOPOS inverter stations handled by mappMotion on this interfaces.
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 2.2.0.0
- X20BC1083 X20cBC1083 < HW−Upgrade 2.5.0.0
- X20BC8083 X20cBC8083 < HW−Upgrade 2.5.0.0
- X20BC8084 X20cBC8084 < HW−Upgrade 2.5.0.0
- X20SL8101 X20cSL8101
- X67BC81RT.L12 < HW−Upgrade 2.5.0.0
- X67BC8321−1
- X67BC8331
- X67BC8513.L12

Library − AsARCfg

ID#400279344 : solved problem, known since ARSG4_4.34.5_E04.34, solved since ARSG4_4.71.1_A04.71

ClgSetHostName not setting the hostname

Library − AsCANopen

ID#400298758 : solved problem, known since ARSG4_4.62.2_B04.62, solved since ARSG4_4.71.1_A04.72

Function blocks CANopenSDOReadData() and CANopenSDOWriteData() of library AsCANopen continuously returning error state 30811 although the CANopen slave is operational.

ID#629760 : solved problem, known since ARSG4_4.71.25_Y04.71, solved since ARSG4_4.71.1_A04.71

Transfer mode coSDO_TYPE_BLOCK_TRANSFER returning unsuitable error number

ID#400270119 : solved problem, known since ARSG4_4.34.10_J04.34, solved since ARSG4_4.71.1_A04.71

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_4.71.1_A04.71

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

Library − AsEthIP

ID#400300224 : solved problem, known since ARSG4_4.34.12_L04.34, solved since ARSG4_4.72.1_A04.72

Memory leak from function block EIPCyclic() of library AsEthIP if the IP address changes

Library − AsHost

ID#400281752 : solved problem, known since ARSG4_4.10.19_S04.10, solved since ARSG4_4.71.1_A04.71

Use of a wrong domain name after DHCP offer

Library − AsIecCon

ID#400297480 : solved problem, known since ARSG4_4.62.2_B04.62, solved since ARSG4_4.71.1_A04.72

Return values "TRUE" or "FALSE" when converting from BOOL to STRING if provided STRING 5 characters Otherwise, the return values are '0' or '1'.

Library − AsMcDcs

ID#645325 : solved problem, known since nicht relevant, solved since ARSG4_4.71.1_A04.71

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_4.71.1_A04.71
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#400302037 : solved problem, known since ARSG4_4.63.2_B04.63, solved since ARSG4_4.72.1_A04.72
Memory leak in AsOpcUac when using read and write blocks
This problem occurs only if the server uses NodeIds of type String for the data type nodes. In this case, a memory leak occurs when accessing one of the read or write blocks. This problem has occurred since A4.33.

ID#400293144 : solved problem, known since ARSG4_4.26.11_K04.26, solved since ARSG4_4.72.1_A04.72
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_4.71.1_A04.71
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#400298244 : solved problem, known since ARSG4_4.62.2_B04.62, solved since ARSG4_4.72.1_A04.72
Function block xmlReadNextNode of library AsXml causing cycle time violation if skipSubtree is enabled and the XML file is faulty

ID#400285614 : solved problem, known since ARSG4_4.45.3_C04.45, solved since ARSG4_4.71.1_A04.71
XML file with single quotation mark in the XML declaration causing page fault in function block xmlReadNextNode() of library AsXml

ID#438025 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.71.1_A04.71
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_4.71.1_A04.71
CAN Lib: Initialization of CAN interface on X20CS does not work with controller redundancy

ID#400264347 : solved problem, known since ARSG4_4.34.9_I04.34, solved since ARSG4_4.71.1_A04.71
CpuRed: CAN Lib: wrong behaviour of CAN initialization for ARs G4.34/H4.34/I4.34 in redundancy use

Library - DRV_mbus

ID#400278980 : solved problem, known since ARSG4_4.26.11_K04.26, solved since ARSG4_4.71.1_A04.71
Modbus slave also responding to broadcast

ID#400258332 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.71.1_A04.71
Modbus slave incorrectly decoding command "Force multiple coils", resulting in invalid values

Library - DVFrame

ID#400265025 : solved problem, known since ARSG4_4.08.1_A04.08, solved since ARSG4_4.71.4_D04.71
Receiving on serial interfaces stops at certain timing conditions

Bei bestimmten zeitlichem Zusammentreffen von empfangenen Bytes, Pausen zwischen Frames und Interrupts der CPU konnte es vorkommen, dass anschließend keine Frames mehr auf der seriellen Schnittstelle empfangen wurden. Das Problem wurde mit X20IF1030 in X20CP1585 beobachtet, doch wäre potentiell auch mit andern seriellen Interfaces die per PCI oder PCIe auf x86 Geräten angeschlossen sind möglich.

Library - FileIO

ID#400277518 : solved problem, known since mappView 5.5.0, solved since ARSG4_4.71.1_A04.71
Error behavior when using asynchronous function blocks from a task that was not created with the RTK functions when exception TC enabled

ID#400277190 : solved problem, known since unbekannt, solved since ARSG4_4.71.1_A04.71
Cannot read file with offset greater than 2,147,483,647

ID#400273457 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.71.1_A04.71
Misleading error when reading information from a directory system entry (access denied)

Library - PowerLink

ID#400269427 : solved problem, known since nicht relevant, solved since ARSG4_4.71.1_A04.71
Constant pACTION_GET_STATION_SHIFT not exported by powerlnk Library

System – ANSL

ID#400262271 : new function since ARSG4_4.72.1_A04.72

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.

ID#641610 : solved problem, known since ARSG4_4.52.2_B04.52, solved since ARSG4_4.71.1_A04.71

Cannot enable line coverage with CPU-intensive project

System – Hypervisor

ID#661285 : solved problem, known since ARSG4_4.71.5_E04.71, solved since ARSG4_4.72.2_B04.72
AR no longer starting after restarting AR on a hypervisor system on an APC910 target system with TS77 CPU board
ID# 400271566, 400276638, 400278409, 400290783 : solved problem, known since ARSG4_4.44.25_Y04.44, solved since ARSG4_4.72.2_B04.72
GPOS (Linux) not starting if 2048 MB DRAM set
ID# 400271249, 400269793, 400286889, 400295287, 400296071 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.72.1_A04.72
Interrupt conflict with some third-party PCI cards on a hypervisor system an (e.g. SAPCCE.ETH4-00)
ID#400294149 : solved problem, known since ARSG4_4.52.2_B04.52, solved since ARSG4_4.71.1_A04.72
Possible loss of system tick when removing USB flash drive (logbook entry 27309 "AR-SIOS: Failed system tick event")
ID#400295170 : solved problem, known since ARSG4_4.71.1_A04.71, solved since ARSG4_4.72.2_B04.72
Hypervisor system on APC3100 with enabled hyperthreading not booting
ID# 400290529, 400294164 : solved problem, known since ARSG4_4.53.1_A04.53, solved since ARSG4_4.72.2_B04.72
DHCP server losing issued leases during reboot
ID#400276843 : solved problem, known since ARSG4_4.61.3_C04.61, solved since ARSG4_4.71.1_A04.71
Hypervisor system no longer starting after PIP install with "Force initial transfer"
ID#400263012 : solved problem, known since ARSG4_4.52.4_D04.52, solved since ARSG4_4.71.1_A04.71
B&R Hypervisor target system starting in diagnostics and "Error 1 busy" in logbook
ID# 400271965, 400275569 : solved problem, known since ARSG4_4.45.2_B04.45, solved since ARSG4_4.71.1_A04.71
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.
ID# 400267831, 400273101 : solved problem, known since ARSG4_4.45.1_A04.45, solved since ARSG4_4.71.1_A04.71
Keyboard input on SAP890.1505-B10 hypervisor system not working in GPOS
ID# 400269791 : new function since ARSG4_4.72.2_B04.72
Entire system restarted and not just AR when rebooting via online communication on a hypervisor system

System – Hypervisor 1

ID#660995 : solved problem, known since ARSG4_4.71.5_E04.71, solved since ARSG4_4.71.5_E04.71
AR no longer starting after restarting AR on a hypervisor system on an APC910 target system with TS77 CPU board

System – NTP

ID#400285988 : solved problem, known since ARSG4_4.44.6_F04.44, solved since ARSG4_4.71.1_A04.71
Disabling NTP monitoring
Command "monlist" can no longer be called externally.

System – OPC UA

ID#400299516 : solved problem, known since ARSG4_4.63.2_B04.63, solved since ARSG4_4.72.1_A04.72
OPC UA server returning incorrect data for MonitoredItems to dynamic arrays of type Integer and Real
Instead of the values of the array, only the array with the array length is returned.
ID#400297676 : solved problem, known since ARSG4_4.53.2_B04.53, solved since ARSG4_4.72.1_A04.72
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.
If the old PV information model 1.00 is used, access to an uninitialised pointer may occur when reading out the OPC UA configuration. As a result, the OPC UA Server does not start.

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.

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.

When reading a .uanodeset file, a memory leak may occur. When reading a default value from a variable node, a memory leak can occur if it is a custom type that has not yet been defined. In this case, 72 bytes remain on the heap. The memory leak does not occur cyclically and should therefore not be critical.

UA_Connect not connecting to server that has a UserIdentityToken with a security policy that is NULL or empty.

The problem occurs if SessionConnectInfo.SecurityPolicy None and login with username is selected. Instead of establishing a connection as expected, the output ErrorID is set to 0x8020000.

System – Transfer

Project installation package not setting label names for partitions.

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

Long delays possible in some circumstances when comparing PVs during transfer (large arrays, multidimensional) although the PV has not changed.

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

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.

Target no longer booting after PIP install from user partition.

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.

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.
TFTP server allowing read access to entire system partition