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B&R Revision Information (02.09.2019)
Automation Studio 4.2.14 SP

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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<td>AS4.2.07 SP</td>
<td>Exception on &quot;Undo&quot; in table editor for function declarations</td>
</tr>
<tr>
<td>4000209602</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Positioning from &quot;Cross−reference&quot; window to I/O mapping editor not working correctly</td>
</tr>
<tr>
<td>4000210606</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>&quot;n.a.&quot; displayed instead of value when using monitor mode in the Ladder Diagram editor</td>
</tr>
<tr>
<td>4000201340</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Missing parameters in ACOPos parameter table when language set to Korean</td>
</tr>
<tr>
<td>4000212262</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Cam editor: Incorrect limits defined automatically</td>
</tr>
<tr>
<td>4000211074</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Poor loading performance and no visible entries when opening UA Default View in projects with huge count of OPC UA tags</td>
</tr>
<tr>
<td>4000210399</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Automation Studio crash in Sequential Function Chart editor when using variable of type &quot;Enumerator&quot; in transition</td>
</tr>
<tr>
<td>4000211948</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Exception when opening menu &quot;Edit&quot;</td>
</tr>
<tr>
<td>4000212687.</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Faulty shared resources when adding &quot;SafetySolution&quot; (with HMI application)</td>
</tr>
<tr>
<td>4000210980.</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Opening an Automation Studio project containing a period in the project name not prevented</td>
</tr>
<tr>
<td>4000213272</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Library MC_RegMA not automatically replaced</td>
</tr>
<tr>
<td>4000212992</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Not permitted to use node number 240 for PLK &quot;traced node&quot;</td>
</tr>
<tr>
<td>4000212277.</td>
<td>AS4.2.09 SP</td>
<td>AS4.2.07 SP</td>
<td>Data of &quot;virtual hardware module&quot; not written correctly to .br files during compilation if module contained in frozen hardware modules</td>
</tr>
</tbody>
</table>
Problem AS4.2.08 SP AS4.2.06 SP OPC UA | EU Range Low and High limits can not be changed if 'Inherit From Parent' is set to 'Inherit None'.

Problem AS4.2.09 SP AS4.2.06 SP Available languages offered for selection in Logger after switching the configuration.

Problem AS4.2.09 SP AS4.2.06 SP Automation crashing in text editor when editing large ANSI C programs.

Problem AS4.2.09 SP AS4.2.06 SP Copy/Paste of large networks not working in Ladder Diagram editor.

Problem AS4.2.09 SP AS4.2.05 SP Increased memory consumption when switching the active configuration if the configuration contains large OPC UA mapping files.

Problem AS4.2.09 SP AS4.2.06 SP Long build times with text system builder.

Problem AS4.2.09 SP AS4.2.12 SP Crash when adding variables to Watch window.

Problem AS4.2.09 SP AS4.2.06 SP ARSG4 4.26.1_A04.26 Sp Remote and permanent data not deleted when changing CF card.

Problem AS4.2.08 SP AS4.2.07 SP Unable to build VC3 project if Automation Studio installed under C:\Program Files.

Problem AS4.2.08 SP AS4.2.07 SP Stack overflow exception in BR.VC.AnalysG30bject.exe.

Problem AS4.2.08 SP AS4.2.07 SP Automation Studio crashing in ANSI C editor if Ctrl+Spacebar pressed multiple times.

Problem AS4.2.08 SP AS4.2.07 SP Automation Studio crashing when switching off monitor mode in the Ladder Diagram editor if synchronous Powerflow is active.

Problem AS4.2.08 SP AS4.2.07 SP Library declaration files not renamed correctly.

Problem AS4.2.08 SP AS4.2.07 SP Error converting AS 3.x project that uses an APC910 with 4 LS cards.

Problem AS4.2.08 SP AS4.2.06 SP Error generating cross-references if binary tasks mapped.

Problem AS4.2.08 SP AS4.2.06 SP Data type error reported in Function Block Diagram when using bit addressing with SET and RESET blocks.

Problem AS4.2.08 SP AS4.2.06 SP Incorrect position marked in Function Block Diagram editor when double-clicking on an error message.

Problem AS4.2.08 SP AS4.2.06 SP Inserted position marked in Function Block Diagram editor when double-clicking on an error message.

Problem AS4.2.08 SP AS4.2.06 SP Sorting lost in file-based I/O mapping editor when saved.

Problem AS4.2.08 SP AS4.2.06 SP Imported ServoSoft data not shown in Speed Torque Chart.

Problem AS4.2.08 SP AS4.2.06 SP Acp10sys.br is shown in the software configuration in the wrong category.

Problem AS4.2.08 SP AS4.2.06 SP No structure elements offered by SmartEdit in structures used in actions within a library.

Problem AS4.2.08 SP AS4.2.06 SP Error in dialog box for entering initialization values.

Problem AS4.2.08 SP AS4.2.06 SP Importing fieldbus description files as DTM devices causing errors.

Problem AS4.2.08 SP AS4.2.06 SP Visio files are not taken into account during library import.

Problem AS4.2.08 SP AS4.2.06 SP Error with large encrypted C files.

Problem AS4.2.08 SP AS4.2.06 SP Error initializing dynamic structure elements.

Problem AS4.2.08 SP AS4.2.06 SP Error message when assigning structures.

Problem AS4.2.08 SP AS4.2.06 SP Error initializing dynamic structure elements.

Problem AS4.2.08 SP AS4.2.06 SP Option for ignoring differences in user files not dependent on Automation Runtime version.

Problem AS4.2.08 SP AS4.2.06 SP Option for ignoring differences in user files not dependent on Automation Runtime version.

Problem AS4.2.08 SP AS4.2.06 SP Relative path for user files persisting as absolute path.

Problem AS4.2.08 SP AS4.2.06 SP Variables added while monitoring instances of function blocks in the Watch window removed when exiting monitor mode.

Problem AS4.2.08 SP AS4.2.06 SP New rules can not be assigned to users via dropdown menu sometimes.

Problem AS4.2.08 SP AS4.2.06 SP Incorrect default value for reproducibility of function block and data type components.

Problem AS4.2.08 SP AS4.2.06 SP Too many variables offered in declaration for all variables.

Problem AS4.2.08 SP AS4.2.06 SP Automation Studio crashing when switching off monitor mode in the Ladder Diagram editor if synchronous Powerflow is active.

Problem AS4.2.08 SP AS4.2.06 SP Editor is sporadically not loading the content of .opcm file.

Problem AS4.2.08 SP AS4.2.06 SP The OPC UA server did not start if a setting that deviates from the standard values was defined in the Default View configuration when a value range violation occurred.

Problem AS4.2.08 SP AS4.2.06 SP OPC UA default view shows no content.

Problem AS4.2.08 SP AS4.2.06 SP Auto complete not working correctly after entering a period.

Problem AS4.2.08 SP AS4.2.06 SP Upgrade dialog box erroneously reporting no Internet connection available.

Problem AS4.2.08 SP AS4.2.06 SP SmartEdit support is not available when trying to refresh the VC data source immediately after opening the project.

Problem AS4.2.08 SP AS4.2.06 SP Length of XML files in Logical View is limited to 10 signs.

Revision Information Automation Studio 4.2.14 SP
Unable to start Automation Studio Portable due to version conflict

Unable to import some EtherNet/IP EDS files

Exception when opening ACOPOSIInverter P74 after conversion from AS 4.1 to AS 4.2.5

Unable to update data sources after changing mapp version since SmartEdit not available

SmartEdit not working for declaration files whose notation in the file system differs from that in the management files

Valid value not displayed in text-based programming languages in monitor mode when first activating tooltip for structure

Object "iomap" in software configuration editor wrongly enabled/disabled together with object "acron"

Missing support for SafeLOGIC module X20SL8101 in Automation Studio

VC3 saving absolute paths

Error: VC4 "Import from another project" dialog box crashing

Incremental build of libraries not taking modified .o files into account

No error output if VC version not entered in project

Error message 1352 output on build

Unable to create cross-reference if using application modules

Installation of a new VC version increasing the VC version being used in existing projects

Trend not displayed in AS4.2.5

Pasting of a button control to a different page via context menu on the explorer loses mapped action.

Possible errors 1178 and 1126 when compiling project containing encrypted programs

Installation of a new VC version increasing the VC version being used in existing projects

Not all variables available in mmap View binding dialog box if a task is mapped multiple times

Unable to create cross-reference if using application modules
Problem AS4.2.06 SP AS4.2.05 Initial transfer executed if controller has more than one data storage device

Problem AS4.2.06 SP AS4.2.05 AR not booting after version change in combination with mapp View

Problem AS4.2.06 SP AS4.2.05 Milliseconds shown incorrectly in transfer dialog box

Problem AS4.2.06 SP AS4.2.05 Unclear error message if mass storage device (CF, CFast, RAMDISK, etc) too small

Problem AS4.2.06 SP AS4.2.05 Cannot create remote install structure for T30 devices on USB flash drive in Windows 10

Problem AS4.2.06 SP AS4.2.05 Partition information specified on transfer if this is the reason for an initial transfer

Problem AS4.2.06 SP AS4.2.05 Degraded transfer performance

Problem AS4.2.06 SP AS4.2.05 User files always synchronized with project version until Automation Runtime A4.26

Problem AS4.2.06 SP AS4.2.05 Debugger connecting to incorrect IP address

Problem AS4.2.06 SP AS4.2.05 Adjusted calculation for average cycle times

Problem AS4.2.06 SP AS4.2.05 Incorrect error message in Watch window after transferring project

Problem AS4.2.06 SP AS4.2.05 Incorrect error message in Watch window after transferring project

Problem AS4.2.06 SP AS4.2.05 Incorrect warning displayed when using certain hardware modules

Problem AS4.2.06 SP AS4.2.05 Cannot connect module

Problem AS4.2.06 SP AS4.2.05 Incorrect entry in binding after selecting array element in the binding dialog box in the content editor

Problem AS4.2.06 SP AS4.2.05 Not possible to read online info on heavily loaded target system

Problem AS4.2.06 SP AS4.2.05 Unnecessary ANSI PVI process object with INA connection

Problem AS4.2.06 SP AS4.2.05 "INA" connection established when enabling simulation

Problem AS4.2.06 SP AS4.2.05 New lines added when copying text block with more than one line

Problem AS4.2.06 SP AS4.2.05 Autocomplete not working correctly in ANSI C editor

Problem AS4.2.06 SP AS4.2.05 No tooltip for structure members displayed in ANSI C editor

Problem AS4.2.06 SP AS4.2.05 Faulty SmartEdit support in include path

Problem AS4.2.06 SP AS4.2.05 Automation Studio crashing if a function pointer is defined in ANSI C/C++ files

Problem AS4.2.06 SP AS4.2.05 Varied order of function calls in parameter list displayed in tooltip in the Automation Basic editor

Problem AS4.2.06 SP AS4.2.05 CFC editor crashing in monitor mode if "Force all off" selected

Problem AS4.2.06 SP AS4.2.05 Error message while searching in cross-reference window

Problem AS4.2.06 SP AS4.2.05 Inconsistent error message displayed for data type declarations

Problem AS4.2.06 SP AS4.2.05 I/O mapping deleting preceding columns ("," in column "Process variable"

Problem AS4.2.06 SP AS4.2.05 Incorrect error message in Ladder Diagram editor when using action block

Problem AS4.2.06 SP AS4.2.05 Current network no longer drawn completely in Ladder Diagram editor after variable declaration.

Problem AS4.2.06 SP AS4.2.05 Synchronous Powerflow no longer working if no values to be displayed in visible area

Problem AS4.2.06 SP AS4.2.05 Y value of operating point displayed in table not matching the actual value

Problem AS4.2.06 SP AS4.2.05 Option "Transfer only if object doesn't exist on target" not available for NC data objects

Problem AS4.2.06 SP AS4.2.05 Spelling error in hardware configuration

Problem AS4.2.06 SP AS4.2.05 Cannot make key assignments for PS2 keyboard

Problem AS4.2.06 SP AS4.2.05 AS crashes after adding a new configuration by drag/drop from the object catalog with System Designer opened.

Problem AS4.2.06 SP AS4.2.05 Invalid initial value entered for arrays of structures

Problem AS4.2.06 SP AS4.2.05 Faulty XDD export with DTM interface card X20F10E1-1

Problem AS4.2.06 SP AS4.2.05 Error 5455 reported when generating XDC file for module X67BC8321

Problem AS4.2.06 SP AS4.2.05 Upgrade installation failing for local users without administrator rights if UAC disabled

Problem AS4.2.06 SP AS4.2.05 Unhandled exception when saving project as zip file

Problem AS4.2.06 SP AS4.2.05 Cut operation possible on logical root node

Problem AS4.2.06 SP AS4.2.05 German text on English AS home screen

Problem AS4.2.06 SP AS4.2.05 Text system editor hiding subsequent lines when editing text

Problem AS4.2.06 SP AS4.2.05 Error message 9222 not always output

Problem AS4.2.06 SP AS4.2.05 Error in internal header files for function blocks

Problem AS4.2.06 SP AS4.2.05 MN – ICN connection not working if X20SL8100 is configured as SDG and Source at the same time

Problem AS4.2.06 SP AS4.2.05 Faulty code when using data type REFERENCE _TO _ARRAY[

Problem AS4.2.06 SP AS4.2.05 Error in IOMAP builder: Faulty mapping not detected

Problem AS4.2.06 SP AS4.2.05 Error message (error 11154) when using modules in DRAM that should be deleted when transferring in service mode

Problem AS4.2.06 SP AS4.2.05 VC3 build error 7802 although the visualization object is mapped

Problem AS4.2.06 SP AS4.2.05 Change of the for VNC mapped keymapping file have no impact when built.

Problem AS4.2.06 SP AS4.2.05 Automation Studio not responsive after certain input in Watch window

Problem AS4.2.06 SP AS4.2.05 File encoding not detected when importing 3rd−party devices

Problem AS4.2.06 SP AS4.2.05 PROFINET parameters not loaded correctly

Problem AS4.2.06 SP AS4.2.05 Autocomplete for code incorrectly offering non−constant methods

Problem AS4.2.06 SP AS4.2.05 Automation Studio crashing when searching in files

Problem AS4.2.06 SP AS4.2.05 Automation Studio freezing if synchronous Powerflow enabled after a transfer

Problem AS4.2.06 SP AS4.2.05 Faulty code generation for Ladder Diagram if extended MOVE block with EN/ENO is used
Requests and problems by product/component

1A4300.02 Automation Studio 4.x

Build

ID#400286609 : solved problem, known since AS4.3.08 SP, solved since AS4.2.14 SP
At Clean configuration / rebuild the whole Temp/Transfer folder is deleted.

ID#536090 : solved problem, known since AS4.0.22 SP, solved since AS4.2.14 SP
Motion build errors when using frozen hardware
If a hardware module is frozen in a project, the version frozen in the project is not used for the motion build. Instead, the version of the hardware module installed in AS is used.

ID#400260623 : solved problem, known since AS4.0.00, solved since AS4.2.13 SP
Automation Runtime warning 30030 if CAN I/O and CANopen enabled on the same interface

ID#400257031 : solved problem, known since AS4.2.06 UP, solved since AS4.2.13 SP
Cannot create astftp.br with referenced hardware configuration

ID#590780 : solved problem, known since AS4.5.01, solved since AS4.2.12 SP
Incorrect array sizes for certain derived data types
The following error occurs for data types that are directly derived from arrays of strings: If a variable of this data type is created and used in ANSI C or C++, the array dimensions are incorrect. When accessing individual array elements, data is written or read incorrectly.

ID# 400239696, 400243767 : solved problem, known since AS4.2.12 SP, solved since AS4.2.12 SP
BusNavigator.xostd does not use path to frozen XOSDD but to generally installed ones
When freezing a safe HW module the BNC Builder does not recognize this and generates an invalid BusNavigator.xostd file.

ID#400219591 : solved problem, known since AS4.2.09 SP, solved since AS4.2.10 SP
Cannot create cross-reference

ID#400220173 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
Error when building project in connection with external version control
If an external version control system is used that creates files in the project corresponding to the name pattern "File.1.ext", this causes an error on project build.
The project build is aborted and returns error 444 due to a non-existent transfer list.

ID#400213790 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Error 3003 output when building Automation Studio project

ID#400215643 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP
Unable to build projects with referenced actions located in paths with spaces

ID#400213790 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Not possible to compile projects in paths containing spaces

ID#400207011 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Error generating cross-references if binary tasks mapped

ID#400203410 : solved problem, known since AS4.0.26 SP, solved since AS4.2.08 SP
Obsolete offset data ignored
If the presence of obsolete data is detected during build, the corresponding file is ignored and deleted.

ID#400204258 : solved problem, known since AS4.1.12 SP, solved since AS4.2.08 SP
Error with large encrypted C files
The error with large encrypted C files has been corrected; the cross-reference is generated completely again.

ID#400200040 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
OPC mappings built unnecessarily

ID#400200243 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Automation Studio crash if BuildEvents contain output in format "<Text> Filename.extension:"

ID#400182279 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Error message 9222 not always output

ID#400199758 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Corrupt initialization of structure data types if first member is reference
If a structure data type whose first member is a reference is declared without explicit initialization, an error occurs when automatically generating the initialization values.
The error correction fixes the automatic generation of initialization values.

ID#400198878 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Libraries using mapp variables regenerated on each build
If a project contains a library that uses mapp variables, then the library will be regenerated on each build even if nothing relevant has changed.

ID#400157719 : solved problem, known since AS4.1.09 SP, solved since AS4.2.07 SP
Incremental build of libraries not taking modified .o files into account

ID#400195963 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Unable to create cross-reference if using application modules

ID#449675 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Changing motion library versions not working
Errors can occur when adding motion hardware to a project and then changing the version of the motion libraries. Libraries are not deleted completely and cannot be added back again.

ID#400191524 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Mixed implementations of actions and functions/function blocks resulting in diagnostic mode in some circumstances

ID#400189249 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Error message 9222 not always output

ID#400189225 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Error in internal header files for function blocks
During a build in Automation Studio, header files are created from the IEC declarations in order to use symbols declared in IEC languages in C and C++.
Compilation was faulty, however, if an element of a string array data type was declared as "Reference to" in a function block.
The declaration in the header file did not correspond to the IEC declaration. Writing to this array using the array index in some circumstances wrote to incorrect array indexes.
This error has been corrected.

ID#400188619 : solved problem, known since AS4.1.10 SP, solved since AS4.2.06 SP
System.IO.PathTooLongException: Exception if path for project directory too long
If a project directory contains subdirectories with long paths that do not belong to the project, this can cause an unhandled exception when the directories are read recursively.

ID#400186298 : solved problem, known since V3.00.90.32 SP0x, solved since AS4.2.06 SP
Possible errors 1178 and 1126 when compiling project containing encrypted programs
This error is caused by a problem blocking various processes. Closing and reopening the project corrects this problem.

Build – ConfigurationBuilder
ID#400220539 : solved problem, known since AS4.1.12 UP, solved since AS4.2.10 SP
Error 6999 im when building sysconf module if hostname contains "0x"

ID#528205 : new function since AS4.2.12 SP
Updated hardware configuration file HardwareConfiguration.xml

ID#400209606 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
SL-to-SL or SLX-communication over ModbusTcp not working when only one Slave SL/SLX and no SIO modules are configured
Configurations where SL-to-SL/SLX-communication over ModbusTcp is activated will not gererate the correct modbus registers during BUILD
if the Slave configuration does only have one SL/SLX and no SIO modules configured

ID#400196552 : solved problem, known since ARSG4_4.25.10_J04.25, solved since AS4.2.08 SP
Online installation aborted when using Power Panel T30
Online installation is aborted with error 11150 if using a Power Panel T30 with configured password for the service page, VNC server or CIFS.
Error 8099 is generated in the AR Logger.

ID#400196297 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Changes to setting “Adjust clock for daylight saving” in SG4 CPU configuration not transferred

ID#400198857 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
No check of local remanent memory performed on build
If more remanent local memory is used than configured, this faulty configuration is not checked during the build process. The target system then reboots in diagnostic mode after generating the data for a CF card.

ID#400199700 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
3rd-party openSAFETY devices not working with Automation Studio 4.2.6
Cyclic data exchange with 3rd-party openSAFETY devices is not possible.

ID# 400185037, 400190177 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Target system starting in diagnostics mode with special X2X bus setting
If a specific task class (e.g. Cyclic #1) is entered for the “Output cycle trigger” setting on the X2X bus, then the target system will only start in diagnostics mode.

ID# 400193371, 400194056 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Build aborted with error if safety−related project missing "Firmware" section in .hwx file

If a safety project is created using hardware modules that have no "Firmware" entry in the .hwx file, the build is aborted because the BNC file cannot be generated.

ID#400192383 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Error 8817 during transfer if 7CX408.50−1 module connected to 3IF671.9 module via the CAN interface

ID# 400190248 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Error 30973 when using X20PS9400 on X20 hub modules

ID#400186127 : solved problem, known since ARSG4_4.24.4_D04.24, solved since AS4.2.06 SP
Warnings 30973 and 30961 on target system when using CANopen modules

ID# 400183301, 400184063, 400186702 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
MN − iCN connection not working if X20SL8100 is configured as SDG and Source at the same time

ID#400195112 : new function since AS4.2.06 SP
SafeLOGIC−to−SafeLOGIC communication via POWERLINK iCNs not working in Safety Release 1.10
If SafeLOGIC−to−SafeLOGIC communication via POWERLINK iCNs is configured in a project that uses Safety Release 1.10 or higher, then data exchange between the SafeLOGIC modules does not work.

Build − Fieldbus

ID#400245190 : solved problem, known since AS4.2.12 SP, solved since AS4.2.13 SP
Communication between VxWorks and iCN not working if manual I/O offset disabled

ID#400238822 : solved problem, known since AS4.3.04 SP, solved since AS4.2.12 SP
Use of special DTM devices resulting in build errors
Some devices imported as DTMs can cause an error during build.

ID#539195 : solved problem, known since AS4.2.06 SP, solved since AS4.2.10 SP
Data exchange between 2 X20SL8100 devices not working

ID#500705 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
Data exchange between 2 X20SL8100 devices not working

Build − FinalizeBuild

ID#400224998 : solved problem, known since AS4.2.08 SP, solved since AS4.2.11 SP
Possible error when using BR.AS.FinalizeBuild.exe outside Automation Studio
If BR.AS.FinalizeBuild.exe is used outside Automation Studio, error 427 is possible if optional parameter "−i" is not specified.
Workaround: Specify parameter "−i" on the command line.

ID#400198270 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Error not output during compilation when using MpAlarm and MpAlarmX together in an Automation Studio project
The use of both libraries together in one Automation Studio project is not permitted and results in errors on the target system.

ID#400198270 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Error not output during compilation when using MpUser and MpUserX together in an Automation Studio project
The use of both libraries together in one Automation Studio project is not permitted and results in errors on the target system.

Build − IECCompiler

ID#400232697 : solved problem, known since AS4.3.03, solved since AS4.2.11 SP
Invalid code if result of function logically negated with NOT
Invalid code is generated on some SG4 target systems if the result of a function is logically negated with operator NOT.

ID#400230616 : solved problem, known since AS4.3.03, solved since AS4.2.11 SP
Error messages on build when using actions in FBD programs or FBD function blocks
Error messages are output for some SG4 target systems on build if actions are used in FBD programs or FBD function blocks.

ID#400227775 : solved problem, known since AS4.3.03, solved since AS4.2.11 SP
Invalid results for certain SG4 target systems (ARM) when performing comparisons in IEC languages and B&R Automation Basic
This problem affects comparisons in which exactly one unsigned operand is to the left of the comparison operator and an expression with only unsigned operands is to the right of the comparison operator.

Comparisons in which an expression with only unsigned operands is to the left of the comparison operator are also affected.

This problem occurs if an overflow occurs when calculating the expression with unsigned operands.

ID#400219756 : solved problem, known since AS4.2.09 SP, solved since AS4.2.10 SP

Corrupt code when using EXIT statement in Structured Text

If a CASE statement containing an EXIT statement is used in a FOR, REPEAT or WHILE loop, then corrupt code is generated during compilation for certain SG4 target systems.

ID# 400216230, 400220632 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP

Page fault when using constant with a directly derived data type in an IEC library

If a constant with a directly derived data type is defined and used in the source code of an IEC library, then faulty code will be generated. A page fault then occurs on the target system.

ID#400210195 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Error messages output when building function blocks with VAR_IN_OUT parameters

The error messages are output for certain SG4 target systems when using the IEC check library.

ID#400201897 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP

Error message when assigning structures

If 2 structures with different data types but an identical structure are assigned, then error message "Incompatible types in assignment" is output on some SG4 target systems.

ID#400195358 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Corrupt code when using function parameters with data type STRING

If a function variable of data type STRING is specified, then corrupted code is generated on some SG4 target systems.

ID#400195361 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Corrupt code when using VAR_IN_OUT variable with data type ARRAY

If a VAR_IN_OUT variable of data type ARRAY is used, then an exception occurs on some SG4 target systems.

ID#649745 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP

Faulty code when using data type REFERENCE TO ARRAY[]

If a variable of data type REFERENCE TO ARRAY[] is used, an exception occurs on some SG4 target systems.

ID#649645 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Error message "invalid lvalue in unary ‘&’ or ‘invalid type argument of ‘->’" during build

Using certain SG4 target systems causes incomprehensible error messages to be output during build if the IEC Check library is included in the project. This happens when accessing a single bit of a REFERENCE or VAR_IN_OUT variable. The error messages are also output when using a REFERENCE or VAR_IN_OUT variable in a function block call as an actual parameter for a VAR_IN_OUT parameter.

ID#6490450 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Cannot compile continuous function chart

Unfounded error messages are output when compiling a continuous function chart for certain SG4 target systems. This occurs for blank continuous function charts or if a function block is called in a continuous function chart.

ID#640192465 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Automation Studio project build hanging

If an undefined data type is used in an IEC program or IEC library, then error 1187 is output during build. The build hangs after this error message is displayed in the output window.

Build – IOMapBuilder

ID#640247425 : new function since AS4.2.12 SP

Additional information for warning 6779

For warning 6779, information is now also output as to whether the PV in question is a "source" or "destination" variable.

In the case of the test project, the following warnings are now displayed::

F:\Projects\F85345\Warning6779Test\Physical\X20CP3585\X20CP3585\PvMap.vvm (Ln: 2, Col: 0): Warning 6779: Not possible to clearly determine the task class of source variable "gVar1" using automatic detection. Please assign task class manually.

F:\Projects\F85345\Warning6779Test\Physical\X20CP3585\X20CP3585\PvMap.vvm (Ln: 2, Col: 0): Warning 6779: Not possible to clearly
determine the task class of destination variable "gVar2" using automatic detection. Please assign task class manually.

Limitation: If the PV assignments are created manually in the text editor, the wrong direction information is output for the first variable when direction operator "#I" is used.

ID#400222419 : solved problem, known since AS4.2.09 SP, solved since AS4.2.10 SP
Specifying the task class with PV mapping of local PVs from outside application module

The task class can now be configured for local PVs outside of the application module.
If no task class is specified, TC1 is used by default and the following warning is output: "6780: Automatic task class detection not available for variable "Filter::FillTask:FillVar1". Please assign task class manually".

ID#400208028 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Error message when using I/O simulation in application modules

An error message is now output when using I/O simulation in application modules:
Error 6767: I/O simulation is not available within application modules.
Workaround: Move the respective I/O mapping to the default application module.

ID#400192743 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Warnings output if incorrect delimiter in mapping

The I/O mapping was generated correctly in each case.
The first case occurs due to the same name for the task and PV. Now a check takes place whether an applicable local PV exists and only then the warning is output.
In the second case, the following changed warning is output:
Warning 6760: Mapping using incorrect delimiter between task class or task name and variable name (possible old syntax). Please fix the mapping.

ID#400187645 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Error in IOMAP builder: Faulty mapping not detected

A faulty I/O mapping of variables no longer than 4 bytes is not detected.

Build – MCBuilder
ID#400191957 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Copying SDC axes of a system NC mapping table to a user NC mapping table generating faulty data during compilation

If an SDC axis from a system NC mapping table (e.g. Acp10map.ncm) is copied to a user NC mapping table, then data intended for the system mapping table is also copied. When compiling the user NC mapping table, this causes an incorrect address to be compiled in the user NC mapping table. The NC Manager on the controller can then sometimes not find this address on the controller.

Build – OPC–UA
ID#400205745 : solved problem, known since AS4.2.06 UP, solved since AS4.2.09 SP
OPC UA | EU Range Low and High limits cannot be changed if 'Inherit From Parent' is set to 'Inherit None'.

If you configure for the EU Range the 'Authorization' as seen below and log in with 'Administrators' rights, the 'Low' and 'High' limits can not be changed via UA Expert.
You will get the error 'Write to node 'NS6|String|::ServerTask:VarX#EURange' failed [ret = BadNotWritable]'

Build – reACTION
ID#400231363 : solved problem, known since AS4.3.03, solved since AS4.2.11 SP
Invalid code for reACTION program with nonexistent function block output

Invalid code is generated if the connecting line to an output in a reACTION function block is also connected to another block input and this function block is used in a reACTION program but the output is not connected.

ID#400231048 : solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP
Incorrect error message on compilation of reACTION task when using self-implemented function blocks

When compiling a reACTION task that uses a self-implemented function block that itself then also calls a function block, error 5280 is output in error in some circumstances.

Build – Taskbuilder
ID#400251703 : solved problem, known since ARSG4_4.26.5_E04.26, solved since AS4.2.13 SP

Error if the name of the .fun file does not match the library name
The target system starts up in diagnostics mode if a library is installed whose .fun file does not match the name of the library.

ID#400203333 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
Error initializing dynamic structure elements
Dynamic structure elements are not permitted to be initialized; any initial values are now ignored.

Build – Transfer To Target

ID#400233623: solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP
Error during application transfer when using large bitmaps in VC4-based HMI application
In this case, error 430 is output during the transfer. The cause of this is a memory bottleneck in Automation Studio. It is possible to work around this error by using PNG as the image format instead of a bitmap.

ID#400229119: new function since AS4.2.11 SP
Property "Transfer objects only if relevant changes" not available for Automation Runtime C4.25

ID#400223455: solved problem, known since ARSG4_4.26.3_C04.26, solved since AS4.2.10 SP
Project differences not identified correctly
Not all project differences are identified correctly when evaluated.
This error behavior has been corrected.

ID#400221010: solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
Transfer dialog box freezing (BIOS controls)

ID#400192451: new function since AS4.2.10 SP
Possible to close transfer dialog box with Enter

ID#400217665: solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
User data checked even though option "Transfer user files automatically" is being used

ID#400214799: solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Unhandled exception when transferring project to simulated target system

ID#400213686: solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Maximum path length of 260 characters not permitted

ID#400211537: new function since AS4.2.09 SP
Changed layout of TransferGui
The warning message for imminent reboot has been repositioned. The layout of the buttons for software comparison, transfer history and transfer settings has been changed.

ID#400201097: solved problem, known since ARSG4_4.26.1_A04.26, solved since AS4.2.09 SP
Remanent and permanent data not deleted when changing CF card
Remanent and permanent data are not deleted when changing the CF card. The previous settings are no longer available, and the settings for generating CF data do not work when changing the CF card.

ID#400206615: solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Automation Studio freezing on connection loss when transfer to redundant system started shortly beforehand
This error behavior is indicated by a modal Windows dialog box "Server overloaded", and Automation Studio can no longer be operated.
The error correction now allows work to continue even if the connection is lost. A transfer can be restarted after confirmation of the Automation Studio error message "Unexpected communication loss."

ID#400204305: new function since AS4.2.08 SP
Transfer progress not displayed in transfer window

ID#400202474: solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Framework application module deleted when other application module transferred
If an application module is transferred in the German version of AS, then all other application modules are deleted from the target system if the transfer mismatch dialog box is opened and confirmed with OK.

ID#400201656: solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
Option for ignoring differences in user files not dependent on Automation Runtime version

ID#400201360: solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
Relative path for user files persisting as absolute path
Initial transfer executed if controller has more than one data storage device

AR not booting after version change in combination with mapp View

If changing the Automation Runtime version to >= A4.26 and simultaneously using mapp View, Automation Runtime no longer boots correctly (diagnostic mode, cyclic boot). This is solved with a new version of Automation Studio (>= V4.2.6) or mapp View (>= 1.1.x.y) in combination with Automation Runtime A4.26 or later.

Milliseconds shown incorrectly in transfer dialog box

Unclear error message if mass storage device (CF, CFast, RAMDISK, etc) too small

Cannot create remote install structure for T30 devices on USB flash drive in Windows 10

Partition information specified on transfer if this is the reason for an initial transfer

Permanent variables lost after changing CF cards

Degraded transfer performance

The total time needed for transferring after a small change to a project (only one program is compiled) has not improved in relation to Automation Studio V4.2.5. The time needed to compile the project has been reduced, but the time it takes to transfer the change to the target system has increased.

Note:
If the software configuration is open, the total transfer time is noticeably slower. It is recommended to keep the software configuration closed while transferring the project.

User files always synchronized with project version until Automation Runtime A4.26

Multiple pop-up windows output shown on a specific error message during transfer

Error message (error 11154) when using modules in DRAM that should be deleted when transferring in service mode

Build – VC3

Warning "Command overriding for target" if VC3–based HMI application mapped multiple times

If a VC3–based HMI application is mapped multiple times in a configuration, warning "Command overriding for target" is output when analyzing the project.

The HMI application is correctly compiled and transferred.

Unable to build VC3 project if Automation Studio installed under C:\Program Files

If the path to Automation Studio contains a space, a VC3 project cannot be built correctly. This also occurs if installation takes place in C:\Programme (German) since this is translated internally by Windows into "C:\Program Files".

Unable to build VC3 project if Automation Studio installed under C:\Program Files

If the path to Automation Studio contains a space, a VC3 project cannot be built correctly. This also occurs if installation takes place in C:\Programme (German) since this is translated internally by Windows into "C:\Program Files".

Stack overflow exception in BR.VC.AnalyseSG3Object.exe

A stack overflow can occur in projects with POWERLINK in redundancy mode. This depends on the hardware setup as well as the path from the CPU to the HMI device.
ID#400186850 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
VC3 build error 7802 although the visualization object is mapped

Build – VC4

ID# 400126669, 400177751 : solved problem, known since VC 4.05.4, solved since AS4.2.09 SP
Touch screen not working on AP990 with DVI interface card if COM1 on the APC being used
If an AP990 is being used with 5DLDVI.1000−01 and IF1 is selected for the touch screen, then the touch screen does not work.

ID#400195693 : solved problem, known since VC 4.25.0, solved since AS4.2.06 SP
Trend not displayed in AS4.2.5
A trend containing the string "tre" in its name is not displayed correctly in AS 4.2.5.

ID#400187758 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Change of the for VNC mapped keymapping file have no impact when built.

ID# 400169970, 400175626, 400181113, 400187277 : solved problem, known since AS4.1.09 SP, solved since AS4.2.06 SP
Terminal hangs in booting with 9650 if I/O module was added.

ID#400170655 : solved problem, known since V3.00.81.33 SP0x, solved since AS4.2.06 SP
Fontfile couldn't be found.

Diagnostics – Debugger

ID#400205348 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Controller entering service mode when line coverage enabled

ID#400192834 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Debugger connecting to incorrect IP address
The following error can occur if online connections are made in Automation Studio using hostnames: If the online connection is switched after debugging and debugging is then restarted, then the debugger connects to the target system from the previous online connection.
This error has been corrected.

Diagnostics – Logger

ID#400243160 : solved problem, known since AS4.2.11 SP, solved since AS4.2.12 SP
Incomplete display in Logger
If the online connection between Automation Studio and the target system is established via INA, data is sometimes displayed incorrectly in the Logger. Columns "Description" and "ASCII data" are empty.
This error has been corrected.

ID#400200732 : solved problem, known since AS4.2.06 UP, solved since AS4.2.09 SP
Unavailable languages offered for selection in Logger after switching the configuration

ID#400197944 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Automation Studio crash when opening large system dump in the Logger

ID# 400198328 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Not possible to jump to location in source code that caused an error from the "Backtrace" window after exception

Diagnostics – Motion – Servo Loop Optimizer

ID#400216710 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
Automation Studio crashes when trying to open the Servo Loop Optimizer for a second axis.

Diagnostics – Profiler

ID# 400210750, 400211326, 400211141 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Profiler: Display as idle task
In Profiler, certain tasks of the cyclic system are interpreted as "idle" tasks. In the future, ARwin task "WindowsLow" will be entered as an "idle" task and no longer a system task.

ID#483250 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Adjusted calculation for average cycle times
When calculating average cycle times, now only those task class cycles that are completely in the profiling are taken into consideration.
Diagnostics – Trace
ID#400224236 : solved problem, known since AS4.1.13 SP, solved since AS4.2.11 SP
  Not possible to calculate characteristic curves that contain a comma in the name
  If characteristic curves of PVs representing two-dimensional arrays are recorded, then the characteristic curve name contains a comma (e.g. "[0,0]"), which leads to an invalid formula for calculation.

Diagnostics – Watch
ID#400235598 : solved problem, known since AS4.2.10 SP, solved since AS4.2.12 SP
  Crash when pressing "Insert" key in Watch window
  If the "Insert" key is pressed in the Watch window, it is possible that Automation Studio crashes. This occurs if the selected variable is a structure and the names of the structure elements exceed a certain length. A workaround is to select another variable before pressing the "Insert" key. Shorter variable or element names can also be used to avoid the error.

ID# 400218648, 400224324 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
  Watch window showing illegal STRING value for certain string literals
  String literals such as "$1x\$" or "$2y\$" are displayed in the Watch window with "illegal string value".

ID#400214903 : solved problem, known since AS4.1.12 SP, solved since AS4.2.09 SP
  Crash when adding variables to Watch window
  Automation Studio crashes if variables with very long names (more than approx. 250 characters) are added to the Watch window.

ID#400202698 : new function since AS4.2.07 SP
  Variables added while monitoring instances of function blocks in the Watch window removed when exiting monitor mode

ID#400196050 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
  Changing the array index in Watch window
  The "Change array index" function in the Watch window is now no longer offered if the affected variable is inside a structure array.

ID#400193000 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
  Incorrect information in Watch window after transferring project
  If a project is transferred while the PV Watch window is open, it is possible that the information displayed in the Watch window is no longer correct. The affected variable can be re-added to the Watch window again as a workaround. This error has been corrected.

ID#400192647 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
  Incorrect information in Watch window after transferring project
  If a project is transferred while the PV Watch window is open, it is possible that the information displayed in the Watch window is no longer correct. This occurs when displaying arrays in the Watch window with a starting index other than 0. The affected variable can be re-added to the Watch window again as a workaround. This error has been corrected.

ID#400188812 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
  Automation Studio not responsive after certain input in Watch window
  If the user enters or drags-and-drops an expression starting with the ""]" character in the Watch window, then the Watch window no longer responds. This error has been corrected.

IO Configuration – CANopen
ID#400215653 : solved problem, known since AS4.2.09 SP, solved since AS4.2.13 SP
  CANopen networks with many slaves not always starting
  If CANopen networks consisting of many slaves with many objects to be transferred are put into operation, then CANopen communication may not start.

ID#400215653 : solved problem, known since AS4.2.09 SP, solved since AS4.2.10 SP
  CANopen networks with many slaves not always starting
If CANopen networks consisting of many slaves with many objects to be transferred are put into operation, then CANopen communication may not start.

**IO Configuration – DTM**

ID#400236229 : solved problem, known since AS4.1.14 SP, solved since AS4.2.12 SP
Configuration data for DTM interface cards not generated
During a build or rebuild of the project, it is possible that necessary configuration data for DTM interface cards (e.g. X20IF1061−1) cannot be generated.

ID#400246725 : solved problem, known since AS4.2.11 SP, solved since AS4.2.12 SP
Cannot add HART and IO−Link modules
If HART modules (X20AI2438, X20AO2438) and/or IO−Link modules (X20DS438A, X67DS438A) are used and deleted in a project, it is possible that none of these modules can be added again afterwards.

ID#400217493 : solved problem, known since AS4.2.08 SP, solved since AS4.2.11 SP
Dialog box displayed incorrectly if Windows zoom enabled
If the zoom factor is set to 125% or higher in Windows, then the dialog box for FDT/DTM verification is not displayed correctly.

ID#400213428 : solved problem, known since AS4.2.07 SP, solved since AS4.2.11 SP
Errors caused during build by frozen FDT/DTM hardware modules
Errors are generated when compiling a project containing frozen FDT/DTM hardware modules.

ID#400196429 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Incorrect warning displayed when using certain hardware modules
When opening a project that includes HART or IO−Link modules (e.g. X20AI2438, X20DS438A), an incorrect warning is output stating that FDT/DTM data for a communication module cannot be found.

ID#494555 : solved problem, known since AS4.2.06 SP, solved since AS4.2.06 SP
"Waiting" mouse pointer displayed
The "waiting" mouse pointer is erroneously displayed after changing the configured hardware.

ID#489575 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Cannot connect module
If a connection between an X67BC8331 and X67DS438A is deleted in System Designer and Automation Studio is then closed, then it is no longer possible to connect these two modules after restarting Automation Studio with this project. A warning is displayed in the output window.

ID#400188370 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
File encoding not detected when importing 3rd−party devices
If a 3rd−party device is imported (CANopen EDS, PROFIBUS GSD, etc.), then the file encoding is not detected (UTF−8, ASCII, etc.). UTF−8 is always assumed as a result.

**IO Configuration – DTM 3rd party**

ID#400215813 : solved problem, known since AS4.2.08 SP, solved since AS4.2.11 SP
Unable to import some DeviceNet EDS files at DTM
Some DeviceNet EDS files cannot be identified as DeviceNet and are therefore not imported.

ID#400198531 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Unable to import some EtherNet/IP EDS files
EtherNet/IP EDS files that use a "Device classification" slightly different from the standard cannot be imported as DTM devices.

**IO Configuration – Profibus**

ID#400186663 : solved problem, known since AS4.1.10 SP, solved since AS4.2.06 SP
PROFIBUS slave devices not reading bus baud rate correctly, error 9700 output

ID#400179145 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
PROFIBUS parameters not loaded correctly
If module parameters are changed by imported PROFIBUS devices, then it is possible that these modifications are lost when the configuration is reopened.

Libraries

ID#400233692 : solved problem, known since VC 4.33.0, solved since AS4.2.12 SP

Cannot update declaration files for library "VcScrSht" with version "4.14.1" because no installed library was found.

mapp View Components

ID#487050 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Incorrect entry in binding after selecting array element in the binding dialog box in the content editor

If an OPC UA structure variable contains an array and an element from this array is selected in the binding dialog box (mapp View content editor), then a faulty expression is entered in the binding.

Online Services

ID#400194698 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP

Automation Runtime transfer causing service mode on controller

ID#400194698 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP

Automation Runtime transfer causing service mode on controller

ID#400194143 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Not possible to read online info on heavily loaded target system

An error message is output in this case.

This error only occurs if a connection was established using ANSL. The error does not occur if the connection is established using INA.

ID#400194369 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Unnecessary ANSL PVI process object with INA connection

If an online connection is selected in Automation Studio that explicitly uses INA, then a parallel ANSL connection is still established anyway, as can be seen from the established process objects in the PVI Snapshot Viewer.

ID#400192249 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

"INA" connection established when enabling simulation

If simulation is enabled in a project, the online connection is sometimes established erroneously via "INA". This happens if an online connection was already established before simulation is enabled.

This error has been corrected; a connection via "ANSL" is now established.

Programming – ANSI C

ID#400232209 : solved problem, known since AS4.3.03, solved since AS4.2.11 SP

"**" displayed in tooltip for REFERENCE TO variables in the ANSI C text editor

ID#400231747 : solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP

Code-based automatic indentation not working correctly in ANSI C and ANSI C++ after preprocessor directive #if containing defined

ID#400223287 : solved problem, known since AS4.2.09 SP, solved since AS4.2.10 SP

Automation Studio crashing in ANSI C editor if Ctrl+Spacebar pressed multiple times

ID#400203580 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP

Automation Studio crashing without a message when memory for 32-bit applications used up

ID#535850 : solved problem, known since AS4.2.06 SP, solved since AS4.2.10 SP

Memory leak when declaring PLC variables and their data types in ANSI C

If the declaration of PLC variables and their data types in ANSI C is enabled in an Automation Studio project, then a portion of used RAM is no longer freed up on each project build or rebuild.

ID#400213658 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Scope of caret position no longer displayed correctly after preprocessor directives in C and C++ programs

ID#400205621 : solved problem, known since AS4.2.06 SP, solved since AS4.2.09 SP

Automation crashing in text editor when editing large ANSI C programs

ID#400213942 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Automation Studio crashing in ANSI C header file if incomplete structure definition added before a structure...
ID#400207213 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Automation Studio crashing in ANSI C editor when entering Ctrl+Spacebar in an empty row

ID#400204781 : solved problem, known since AS4.2.07 SP, solved since AS4.2.08 SP
Automation Studio crashing in ANSI C editor if Ctrl+Spacebar pressed multiple times

ID#400207519 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Automation Studio crash when adding code snippet in ANSI C editor

ID# 400192256, 400193362 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
New lines added when copying text block with more than one line

ID#400192255 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Autocomplete not working correctly in ANSI C editor

ID#400192252 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
No tooltip for structure members displayed in ANSI C editor

Programming − ANSI C++

ID#400197105 : new function since AS4.2.06 SP
Faulty SmartEdit support in #include path

ID#485060 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Automation Studio crashing if a function pointer is defined in ANSI C/C++ files
If a function pointer is defined between two curly brackets in an ANSI C/C++ file and the curly brackets themselves are enclosed by preprocessor directives, then Automation Studio crashes.

ID#400180091 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Autocomplete for code incorrectly offering non-constant methods
If a method is called in ANSI C++ that returns a constant object as the result, then non-constant methods are incorrectly included in the SmartEdit selection list after entering a period.

Programming − Automation Basic

ID#609865 : solved problem, known since AS4.2.13 SP, solved since AS4.2.13 SP
Module context not set correctly when opening a source file from the software configuration
If a program is mapped to tasks multiple times, then it can happen that the module context is not set correctly when opening a source file for this program from the software configuration.

ID#400226632 : solved problem, known since AS4.2.09 SP, solved since AS4.2.13 SP
Module context not set correctly when opening a source file from the software configuration
If a program is mapped to tasks multiple times, then it can happen that the module context is not set correctly when opening a source file for this program from the software configuration.

ID#400211150 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Incorrect entry selected in selection list in many cases with autocomplete after entering Ctrl+Space

ID#400205133 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Variable no longer preselected when opening the dialog box for selecting a variable
If the dialog box for selecting a variable is opened and a variable has already been selected beforehand, then it will no longer be preselected in the dialog box.

ID#400191832 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Varied order of function calls in parameter list displayed in tooltip in the Automation Basic editor

Programming − Automation Components Configuration Editor

ID# 400216847, 400217370 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP
Exception when adding line in .tmx files
An exception occurs when adding a new line to a .tmx file.

ID#400206755 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Automation components editor no longer responding
When editing a mapp Alarm configuration, the editor no longer responds to changes or requires a lot of time to execute an action.

New roles can not be assigned to users via dropdown menu sometimes

**Programming – CFC**

ID#400197018 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

CFC editor crashing in monitor mode if “Force all off” selected

**Programming – CPU Configuration Editor**

ID#400221012 : solved problem, known since AS4.2.08 UP, solved since AS4.2.09 SP

AS 4.2.8 contains faulty version of ArCfgCpuVxWorks.xml.

**Programming – Cross Reference**

ID#400236433 : solved problem, known since AS4.3.04 SP, solved since AS4.2.11 SP

Color setting for cross-reference window

Changed color settings (font color) were not fully applied in output windows “Cross-reference list” and “Reference list”.

ID#400195144 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP

Accessing different elements of a variable on the same line

Accessing different elements of a variable on the same line is now detected.

ID#400188791 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Error message while searching in cross-reference window

If the cross-reference window is empty and the user tries to start a search anyway (Ctrl + F keyboard shortcut or main menu option), then an error message is output.

This error has been corrected.

**Programming – Data Type Declaration Table Editor**

ID#400214797 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP

Existing references removed in table editor for data type declarations when adding new member

ID#400212317 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Checkbox for reproducibility shown by mistake for enumerators in the table editor for data type declarations

ID#400201609 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP

Incorrect default value for reproducibility of function block and data type components

ID#400193681 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Replicable icon incorrectly displayed in table editor for data type declarations

**Programming – Declare Variable Dialog**

ID#400200089 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP

Too many variables offered in declaration for all variables

If a source file contains programs as well as functions and function blocks, then the identifiers in the functions and function blocks are detected as undefined variables when declaring all variables.

**Programming – FBD**

ID#400216097 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP

Automation Studio crashing after copying and pasting a certain FBD network

ID#400215614 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP

Shortcut keys Ctrl+C, Ctrl+V and Ctrl+X not working in Function Block Diagram editor when editing network jump labels

ID#400209993 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP

Data type error reported in Function Block Diagram when using bit addressing with SET and RESET blocks

ID#400208990 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP

Incorrect position marked in Function Block Diagram editor when double-clicking on an error message
**Programming – Function Table Editor**

ID#400213175 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Exception on "Undo" in table editor for function declarations

**Programming – IO Configuration Editor**

ID#400210137 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Possible Automation Studio crash when importing some XDD files

If specific XDD files are imported and these devices are then used, then Automation Studio can crash when opening the configuration for these devices.

**Programming – IO Mapping Table Editor**

ID#400228832 : solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP

Valid I/O mappings possibly discarded if changes in the CPU configuration

ID#400209802 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Positioning from "Cross-reference" window to I/O mapping editor not working correctly

ID#400206991 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP

Sorting lost in file-based I/O mapping editor when saved

ID#492530 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

I/O mapping deleting preceding colons ("::") in column "Process variable"

**Programming – LD**

ID#400243271 : solved problem, known since AS4.2.11 SP, solved since AS4.2.13 SP

No values displayed in monitor mode of an action created in Ladder Diagram

As a workaround it is sufficient to not open any other task than the ladder task

ID#400241751 : solved problem, known since AS4.2.10 SP, solved since AS4.2.12 SP

Values of contacts with bit addressing displayed incorrectly during synchronous Powerflow in the Ladder Diagram editor

ID#400227498 : solved problem, known since AS4.2.09 SP, solved since AS4.2.11 SP

Error number 2207 output when compiling ladder diagram

If a row without connections is added by the Ladder Diagram editor in a MOVE block with multiple inputs/outputs, then error message 2207 is output during compilation.

ID#400220503 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP

Arithmetic operations also offered in Ladder Diagram editor for automatic declaration file of variables

ID# 400217472, 400223163 : solved problem, known since AS4.2.09 SP, solved since AS4.2.10 SP

No values displayed in Ladder Diagram editor after re-enabling monitor mode

No values are displayed in an action programmed in Ladder Diagram after re-enabling monitor mode. This problem does not occur if synchronous Powerflow is enabled in monitor mode.

ID#400210605 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

"n.a." displayed instead of value when using monitor mode in the Ladder Diagram editor

ID#400205736 : solved problem, known since V3.00.90.34 SP0x, solved since AS4.2.09 SP

Automation Studio crashing when opening very large networks in Ladder Diagram editor

ID#400207617 : solved problem, known since AS4.2.06 SP, solved since AS4.2.09 SP

Copy/Paste of large networks not working in Ladder Diagram editor

ID#400201743 : solved problem, known since AS4.2.07 SP, solved since AS4.2.08 SP

Automation Studio crashing when switching off monitor mode in the Ladder Diagram editor if synchronous Powerflow is active

ID#40021743 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP

Automation Studio crashing when switching off monitor mode in the Ladder Diagram editor if synchronous Powerflow is active

ID#400190693 : solved problem, known since AS4.2.04, solved since AS4.2.07 SP

Corrupt code generated for ladder diagram

Corrupt code is generated for a ladder diagram with nested AND and OR operators. The value of a coil is calculated incorrectly as a result of this error.
Function block not called although value TRUE assigned on EN input

Corrupt code is generated for a ladder diagram with nested AND and OR operators. As a result of this error, a function block is not called even though value TRUE is assigned on the EN input.

Error message 1352 output on build

Corrupt code is generated for a ladder diagram with nested AND and OR operators. Error message 1352 is output during the build as a result of this error.

Values of global variables shown as “n.a.” in Ladder Diagram editor when synchronous Powerflow enabled

Incorrect error message in Ladder Diagram editor when using action block

Error message 2202 is mistakenly output when adding an action block parallel to coils.

Current network no longer drawn completely in Ladder Diagram editor after variable declaration

Synchronous Powerflow no longer working if no values to be displayed in visible area

If no values are present in the visible area while synchronous Powerflow is active, a message box appears. After the message box is confirmed, synchronous Powerflow no longer works. Synchronous Powerflow works again after closing and reopening the project.

Automation Studio crashing when searching in files

If long texts are output for the search results when searching in files in the output window, then Automation Studio crashes.

Automation Studio freezing if synchronous Powerflow enabled after a transfer

Faulty code generation for Ladder Diagram if extended MOVE block with EN/ENO is used

Automation Studio freezing in Ladder Diagram editor if synchronous Powerflow is enabled in monitor mode for unreferenced dynamic variables

Powerflow in Ladder Diagram editor not working when using bit addressing with constant variable values

Missing parameters in ACOPOS parameter table when language set to Korean

If "Korean (Korea)" is used as the regional language setting in Windows and motor parameter sets are used, then the parameters after group "Isolation parameters" are no longer displayed since the characters cannot be read correctly.

Imported ServoSoft data not shown in Speed Torque Chart

If German (Switzerland) is configured in Windows for "Region and language", ServoSoft data can no longer be imported.

Y value of operating point displayed in table not matching the actual value

Cam editor: Incorrect limits defined automatically
If a point is added before the first point or after the last point in a cam that has already been saved and reloaded, and for which no limits have been explicitly defined, then the limit is not automatically adjusted to the newly added point.

Programming – Motion – NC Mapping Table Editor

ID#400200771 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Incorrect data in Amc0map.ncm after replacing drive
If a drive is replaced by a drive with more axes, then the additional axes are entered in Amc0map.ncm (if exists) although they have already been entered properly in Acp10map.ncm.

Programming – Motion Components

ID#400226958 : solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP
Icon not correct with encrypted data and no password query
The icon for encryption is not displayed for encrypted motion source files (e.g. ACOPOS parameter table, init parameter able, etc.).
When opening encrypted files for the ACOPOS parameter table, the password query is not performed and only an empty editor is shown.

ID#548265 : solved problem, known since AS4.2.09 SP, solved since AS4.2.11 SP
Support for 8EAC015* interface cards

ID#400190820 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Taking a very long time to load network command trace
If more than 250,000 data sets are loaded with the network command trace, this can take a very long time. If the amount of data is too much, Automation Studio may run out of memory.
Before loading a large amount of data, a message is output that allows the user to cancel loading and reduce the amount of data.

Programming – OPC Mapping Editor

ID#400205391 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
Editor is sporadically not loading the content of .opcm file

Programming – OPC UA Default View Editor

ID#400198017 : solved problem, known since AS4.2.05, solved since AS4.2.09 SP
Increased memory consumption when switching the active configuration if the configuration contains large OPC UA mapping files
If a project contains several configurations and each of these configurations contains large OPC UA mapping files (.uad), then switching the active configuration causes Automation Studio to use more and more memory.

ID#400211074 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Poor loading performance and no visible entries when opening UA Default View in projects with huge count of OPC UA tags

ID#400207393 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
OPC UA default view shows no content.
After opening a project, it is sometimes possible that the OPC UA default view is empty.

ID#508085 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
The OPC UA server did not start if a setting that deviates from the standard values was defined in the Default View configuration when a value range violation occurred.

ID#400194836 : new function since AS4.2.06 SP
Added property SamplingInterval
The new property “Minimum sampling interval” has been added for variable and the groups “EURange”, “EURange violation” and “Engineering units”. This makes it possible for the minimum sampling rate (ms) to be set (10, 20, 50, 100, 200, 500, 1000).

ID#400204363 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
OPC UA default view shows no content.
After opening a project, it is sometimes possible that the OPC UA default view is empty.

Programming – SFC

ID#400228685 : solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP
Build aborting without error message if using an action created in Sequential Function Chart
If an action created in Sequential Function Chart is used in a Structured Text or B&R Automation Basic program and system variable “SFCTip” is present, then the program build is aborted without a message. Error message 430 is subsequently output on “Build all.”
SmartEdit support no longer working for transitions in Sequential Function Chart editor

Automation Studio crash in Sequential Function Chart editor when using variable of type "Enumerator" in transition

Automatic declaration of new variables not working for transitions
If logical expressions are enclosed in transitions, then incorrect names are given when automatically declaring new variables.

**Programming – Software Configuration Editor**

- ID# 400215289, 400216374, 400216716, 400216302 : solved problem, known since AS4.2.08 UP, solved since AS4.2.09 SP
  - Settings for automatically mapped objects lost when saving the software configuration

- ID# 400206103 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
  - Aspi10sys.br is shown in the software configuration in the wrong category.

- ID# 400194590 : new function since AS4.2.06 SP
  - Option "Transfer only if object doesn't exist on target" not available for NC data objects

- ID# 400112444 : solved problem, known since AS4.2.04, solved since AS4.2.07 SP
  - Object "iomap" in software configuration editor wrongly enabled/disabled together with object "aconfig"

**Programming – ST**

- ID# 400234603, 400254497, 400253164 : solved problem, known since AS4.2.11 SP, solved since AS4.2.13 SP
  - Connection to incorrect CPU after configuration change

- ID# 400234603, 400254497, 400253164 : solved problem, known since AS4.2.11 SP, solved since AS4.2.12 SP
  - Connection to incorrect CPU after configuration change

- ID# 400228926 : solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP
  - Structure variables suggested in action inside library if automatic declaration of variables enabled even though they are defined as parameters of a library function or function block

- ID# 400219013 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
  - Characters overwritten in text editor when printing

- ID# 400219432 : solved problem, known since AS4.2.08 UP, solved since AS4.2.10 SP
  - Incorrect data type displayed in tooltip in monitor mode

- ID# 400216543 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
  - Automatic variable declaration returning too many entries in variable declaration dialog box
  - If the instance of a function block is an array element in Structured Text, then the names of the parameters from the function block call are incorrectly listed in the variable declaration dialog box.

- ID# 400207347 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
  - No structure elements offered by SmartEdit in structures used in actions within a library

- ID# 400205627 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
  - Autocomplete not working correctly after entering a period
  - If a new component is added to a structure, then it will not be included in the selection list after entering a period.

- ID# 400199323 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
  - SmartEdit not working for declaration files whose notation in the file system differs from that in the management files
  - If the notation of a declaration file in the Windows file system (e.g. MainInterface.typ) differs from the notation in the package management files (Package.pkg) in Automation Studio (e.g. mainInterface.typ), then changes to these files are not detected correctly. As a result, the changed content is not offered by SmartEdit.

- ID# 400198956 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
  - Valid value not displayed in text-based programming languages in monitor mode when first activating tooltip for structure

**Programming – System Configuration**

- ID# 400233064 : new function since AS4.2.11 SP
  - Cannot generate correct installation structure for 5MP7150.101E-000
ID#400211948 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Exception when opening menu "Edit"
An exception is possible if opening menu "Edit" if the configuration of a CAN interface is open.

ID#400199743 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
Exception when opening ACOPOSinverter P74 after conversion from AS 4.1 to AS 4.2.5
If a hardware module receives the same name as an internal parameter ID, an exception is possible when opening the hardware module's configuration.

ID#400195052 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Spelling error in hardware configuration
The FTP configuration lists "subsirectory" instead of "subdirectory".

ID#400192800 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Cannot make key assignments for PS2 keyboard
Key assignments cannot be made for a PS2 keyboard if the key assignment takes place directly on the PS2 keyboard.

ID#400185174 : solved problem, known since AS4.1.10 SP, solved since AS4.2.06 SP
VC mapping not working correctly on AP1120
A visualization object cannot be mapped on an AP1120 if a VNC server of the same object already exists.

ID#400174612 : solved problem, known since AS4.1.04, solved since AS4.2.06 SP
Cannot modify IP parameter in simulation

Programming – System Designer
ID#400273253 : solved problem, known since AS4.4.xx [FR001041.0], solved since AS4.2.13 SP
"SystemNullReferenceException" when resizing text box
If a module and text box are selected in System Designer and then the size of the text box is changed, "SystemNullReferenceException" occurs and Automation Studio no longer responds.

ID#495660 : solved problem, known since AS4.2.06 SP, solved since AS4.2.06 SP
Nothing displayed in System Designer when using a referenced hardware configuration
ID#400195267 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
AS crashes after adding a new configuration by drag/drop from the object catalog with System Designer opened.

Programming – Variable Declaration Table Editor
ID#400207498 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Error in dialog box for entering initialization values
The initial value of symbols can be entered in declaration table editors using a dialog box.
In some circumstances, this dialog box incorrectly shows the initialization values of structures or function blocks being used.
This occurs if the data type of the corresponding symbol is an array.

ID#400196662 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Invalid initial value entered for arrays of structures
An invalid initial value is entered in the table editor for variable declarations of arrays of structures in which at least one element has a predefined value.
As a result, the variable declaration can only then be opened as text (instead of a table), and an error message is output during build.
The same problem occurs in the variable declaration dialog box. In this case, the variable is not entered in the declaration file after the dialog box is closed.

Programming – Visual Components
ID#400212415 : solved problem, known since AS4.2.07 SP, solved since AS4.2.10 SP
Errors when moving back and forth in the VC4 Insert Object Catalog
If the VC4 Insert Object Catalog is used while nothing is displayed, Back/Next are used to navigate, and the dialog box is closed and reopened, then the display selection is no longer locked. If selected, an error message is reported since no display can be selected.

ID# 400162281, 400161252, 400171543, 400191739, 400193603 : solved problem, known since AS4.2.02, solved since AS4.2.06 SP
Faulty VC shared resources when adding an additional visualization object to project
Shared resources are not merged correctly if an additional visualization object is added. (Ambiguous indexes are assigned for the unit groups.)

**Tools – Generate Transfer List**

<table>
<thead>
<tr>
<th>ID#</th>
<th>Issue Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400214297</td>
<td>Update transfer list not being created. If a certain online connection in a configuration is set to be used and simulation is enabled, then an update transfer list cannot be created. The “Wait” dialog box for establishing the online connection is opened and no longer closes. A transfer list is not created if the dialog box is closed with “Cancel”. Workaround: Disable simulation and remove the setting for using a certain online connection. The transfer list can then be created after enabling simulation.</td>
</tr>
<tr>
<td>400181553</td>
<td>Confusing error message if simulation enabled but no online connection can be established to the simulation target system. The error message is incorrectly output stating the version of the simulation target system is in an invalid range.</td>
</tr>
<tr>
<td>400186319</td>
<td>Generating transfer list also not working after installing the necessary AR upgrades. This error is caused by an inconsistent state of the operating system expansions in the project (operating system file not found). The consistency is not checked before building the transfer list and also not restored.</td>
</tr>
</tbody>
</table>

**Tools – Import Fieldbus Device**

<table>
<thead>
<tr>
<th>ID#</th>
<th>Issue Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400213882</td>
<td>X20 POWERLINK bus controller not working correctly when added with POWERLINK device description file (XDC, XDD) in Automation Studio.</td>
</tr>
<tr>
<td>400209477</td>
<td>Possible errors with XDD files missing attribute “lowLimit” for objects. If an XDD file is imported in which attribute “lowLimit” is missing for some object, this results in errors in the configuration editor when editing the corresponding values.</td>
</tr>
<tr>
<td>400209477</td>
<td>Possible errors with XDD files missing attribute “lowLimit” for objects. If an XDD file is imported in which attribute “lowLimit” is missing for some object, this results in errors in the configuration editor when editing the corresponding values.</td>
</tr>
<tr>
<td>400200100</td>
<td>Importing fieldbus description files as DTM devices causing errors. Importing fieldbus description files containing devices with special characters that are invalid for the file system as DTM devices, then an error occurs exactly for those devices when updating the DTM catalog, and the devices cannot be used.</td>
</tr>
<tr>
<td>400201458</td>
<td>Fieldbus description files not exported. If a project with imported fieldbus and DTM devices saved as a .zip file, then the fieldbus description files for frozed imported devices are not included in the .zip file.</td>
</tr>
<tr>
<td>400195187</td>
<td>Faulty XDD export with DTM interface card X20IF10E1−1.</td>
</tr>
<tr>
<td>400193865</td>
<td>Error 5455 reported when generating XDC file for module X67BC8321.</td>
</tr>
<tr>
<td>400189938</td>
<td>Missing support for SafeLOGIC module X20SL8101 in Automation Studio.</td>
</tr>
<tr>
<td>400177852</td>
<td>OCTET channels not offered in I/O mapping of ICN.</td>
</tr>
</tbody>
</table>

**Tools – Technology Guarding**

<table>
<thead>
<tr>
<th>ID#</th>
<th>Issue Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400278697</td>
<td>Automatic license extension not possible if Automation Studio licensing was originally performed in an older version.</td>
</tr>
</tbody>
</table>
Tools – Upgrade

ID#400216411: solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP

Previously installed upgrades deleted when re-opening upgrade dialog box

ID#400215330: solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP

Upgrade for X20SP1130 available on the B&R website not shown in the “Upgrades” dialog box.

ID#400199942: solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP

Upgrades dialog box erroneously reporting no Internet connection available

ID#400188478: solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Upgrade installation failing for local users without administrator rights if UAC disabled

VisualComponents Editor – VC3

ID# 400177544, 400223003: solved problem, known since AS4.1.10 SP, solved since AS4.2.11 SP

VC3 saving absolute paths

The VC3 editor is saving paths used internally absolutely instead of relatively. For this reason, a change is detected when the installation path of Automation Studio has changed.

ID#400177544: solved problem, known since AS4.1.10 SP, solved since AS4.2.07 SP

VC3 saving absolute paths

The VC3 editor is saving paths used internally absolutely instead of relatively. For this reason, a change is detected when the installation path of Automation Studio has changed.

VisualComponents Editor – VC4

ID# 400263449, 400262721, 400264530, 400265664, 400265670, 400263942, 400267174, 400258318, 400267048, 400259911, 400268683, 400269318, 400271084, 400270070, 400270321, 400271736, 400272212, 4002777192, 400279903, 400281557, 400277156, 400268688: solved problem, known since AS4.2.12 SP, solved since AS4.2.14 SP

Sporadic Automation Studio crash if the VC4 editor is opened as part of an Automation Studio project

If the VC4 editor is opened as part of an Automation Studio project, Automation Studio may sporadically crash. This occurs especially if the VC4 editor is maximized or resized.

The problem occurs with Windows 10 version 1803 or later.

ID#400220546: solved problem, known since AS4.2.07 SP, solved since AS4.2.11 SP

Error during “Import from another project” if referencing non-existing arrays

If a page is imported whose elements point to non-existing array variables, then the import dialog box may freeze.

ID# 400212687, 400216880, 400219057: solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Faulty shared resources when adding “SafetySolution” (with HMI application)

If “SafetySolution” is added to a project containing an HMI application, then unique indexes in text groups are no longer guaranteed.

ID# 400202457, 400202739: solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP

SmartEdit support is not available when trying to refresh the VC data source immediately after opening the project

SmartEdit support is not available when trying to refresh the VC data source immediately after opening the project. Changing the mapp version in the project settings solves the problem.

ID#400182590: solved problem, known since AS4.1.10 SP, solved since AS4.2.07 SP

Error: VC4 “Import from another project” dialog box crashing

The “Import from another project” dialog box crashes if the element being imported references a non-existent data point array entry, for example if the project contains array Status[0..9], but the imported element contains a reference to datapoint Status[30].

ID#400200435: new function since AS4.2.07 SP

No error output if VC version not entered in project

If a VC version is not entered in the project, then the latest version is used by default. This can have unexpected side effects, however, if the project is copied from one computer to another. This is because a different VC version is used without the user knowing it. To prevent this, an error is output if the VC version is not entered in the project.

ID#400198769: solved problem, known since AS4.2.05, solved since AS4.2.07 SP

Shared resources updated incorrect when adding second VC4 HMI application
The shared resources are updated incorrectly when adding a second HMI application. This causes errors in the texts for unit groups during build.

ID#400189256 : solved problem, known since VC 4.25.0, solved since AS4.2.06 SP

Pasting of a button control to a different page via context menu on the explorer loses mapped action.

ID#400189966 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP

Unable to compile referenced .dis files

If .dis files from another configuration are referenced, then the build is aborted with error 7001.

ID#400175948 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP

Incorrect handling of warning 7063 with embedded virtual keys

Double-clicking on compiler warnings for embedded virtual keys opens up the key overview but no embedded virtual keys are listed.

ID# 400161154, 400186459 : solved problem, known since AS4.0.23 SP, solved since AS4.2.06 SP

Refactoring array elements with an index greater than 25 not working in the VC 4 editor

Workspace – Common

ID#400227701 : solved problem, known since AS4.2.11 SP, solved since AS4.2.12 SP

Debug toolbar remaining hidden

If the "Debug" toolbar is explicitly shown, it usually remains visible even after disabling monitor mode. If Automation Studio is exited and restarted, the Debug toolbar remains visible but will disappear the next time the monitor mode is disabled.

ID# 400223399, 400222703 : solved problem, known since AS4.2.09 SP, solved since AS4.2.11 SP

Toolbars flickering

Systems with operating system Windows 10 and high-resolution screens may experience flickering in the "Edit", "Zoom" and "Debug" toolbars. The effect only occurs if the toolbars are attached to the frame of the window. If the toolbars are removed from the window frame, the effect disappears.

ID# 400214038, 400213772 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Opening an Automation Studio project containing a period in the project name not prevented

The system prevents a new project containing a period in the name from being created. Opening a project like this is not prevented, however. This can result in not being able to open source code files with no apparent reason.

ID#400198912 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP

Unable to update data sources after changing mapp version since SmartEdit not available

ID#400196750 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP

All Automation Runtime versions saved in project deleted after changing the Automation Runtime version

When changing the Automation Runtime version, an Automation Runtime version no longer being used can be deleted from the project upon request.

If the originally configured Automation Runtime version was older than 4.06, then all Automation Runtime version saved in the project were wrongly deleted during this.

To get around this, project setting "Store Automation Runtime support files to project" can be disabled and then re-enabled. This reapplies the Automation Runtime versions being used in the project back to the project.

ID#400186373 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP

Possible problems caused by CANopen EDS files

If CANopen EDS files are imported that also contain tabulators at the end of lines before the line break, then using the resulting devices causes errors.

ID# 400122087, 400129607, 400130977, 400145976 : solved problem, known since AS4.0.15 SP, solved since AS4.2.08 SP

Display problem when workspace split in Automation Studio

If the workspace in Automation Studio is split, then a display problem occurs when selecting "Window / Close all others" from the main menu. The size of the editor that remains open is not adjusted and expanded to fill the entire workspace. Any change to the size of the main Automation Studio window or dragging of the dividing lines corrects the display problem.

Workspace – Configuration View

ID#400210272 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP

Library MC_RegMA not automatically replaced
When changing the version of library ACP10_MC, library MC_RegMA is not automatically replaced with a suitable version.

ID#400209162 : solved problem, known since AS4.0.26 SP, solved since AS4.2.08 SP
Additional folder created when referencing hardware configuration with Ethernet panel
If a different hardware configuration with an Ethernet panel is referenced when creating a configuration, then this causes 2 CPU folders to be created in the new configuration.
One for the CPU (e.g. X20CP3585) and one for the Ethernet panel (e.g. 4PP320xxxx).
Their AR versions cannot be configured correctly as a result.

ID#400200058 : solved problem, known since AS4.1.09 SP, solved since AS4.2.07 SP
Installation of a new VC version increasing the VC version being used in existing projects
If a new VC version is installed, the new version is used automatically in existing projects.

ID#400191246 : solved problem, known since AS4.2.06 SP, solved since AS4.2.06 SP
Not all variables available in mapp View binding dialog box if a task is mapped multiple times
If a task is mapped multiple times, not all variables are always displayed in the mapp View binding dialog box.

ID#400186667 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Error 6017 when compiling a project
Error 6017 is possible when compiling a project that contains multiple .sw files if one of the .sw files does not contain the exception task class entry.

ID#400187597 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Not possible to configure the “Default task class for global I/O variables”

ID#400185747 : new function since AS4.2.06 SP
Now only possible to select that ARsim should be used when creating a new AS project

Workspace – Export/Import
ID#400217568 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
Enthält eine im Projekt eingefügte Quellbibliothek fehlerhafterweise SG<xxx> Verzeichnisse mit .br Modulen und sind diese auch noch schreibgeschützt, dann werden diese .br Module beim Export als binary bevorzugt behandelt. Nach Reimport der betreffenden Bibliothek in eine Zielprojekt wird für die Bibliothek eine andere Version angezeigt als im Quellprojekt.

ID#400204025 : solved problem, known since AS4.2.06 SP, solved since AS4.2.08 SP
Visio files are not taken into account during library export
When exporting a library, Visio files (.vdx) are not taken into account.

ID#400195841 : solved problem, known since AS4.2.05, solved since AS4.2.07 SP
AS 4.2.5 export library causes data loss
Referenced packages of libraries gets deleted when exporting the library as binary

ID#400192544 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Unhandled exception when saving project as zip file
An unhandled exception occurs in the “Save project as zip file” dialog box if the Browse button is pressed for an empty path.

Workspace – Find/Replace
ID#400222632 : solved problem, known since AS4.2.08 SP, solved since AS4.2.10 SP
Error message output when pressing "Esc" key while search running
An error message may appear in a dialog box when executing the search in files function if the focus is in the output window for the search results. Another search procedure is then not possible.

Workspace – Localization
ID#400217416 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP
Incorrect display of error 452 in output window

Workspace – Logical View
ID#400261456 : solved problem, known since AS4.2.12 SP, solved since AS4.2.13 SP
Error "The required license for SftTree/DLL 7.0 cannot be located" when creating/opening a project
On certain PCs, error message “The required license for SftTree/DLL 7.0 cannot be located” may occur when creating or opening a project.

ID#400224147 : solved problem, known since AS4.2.09 SP, solved since AS4.2.10 SP
Copy/Paste exception if Windows clipboard blocked

ID#400224042 : solved problem, known since AS4.2.09 SP, solved since AS4.2.11 SP
Moving directories when open in Windows Explorer or Windows Notepad
Moving or deleting directories cannot be performed or completed if they or files they contain are blocked by other applications (Windows Explorer, Windows Editor, clipboard monitoring tools, etc.).

ID#400215727 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP
Files of data object cannot be encrypted

ID#400208283 : solved problem, known since AS4.2.07 SP, solved since AS4.2.08 SP
Library declaration files not renamed correctly
If the same filename notation is not used for libraries and their declaration files (Lib vs. lib.fun), then adding a library will rename its function declaration file.

ID#400202370 : solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
Length of XML files in Logical View is limited to 10 signs

ID#400196621 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP
Cut operation possible on logical root node
An exception occurs when performing a cut operation on the logical root node.

ID#400189058 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Multiple mappings lost when renaming object in the Logical View
Renaming an object that has been mapped multiple times in the software configuration (program, cam profile, etc.) in the Logical View clears the multiple mappings in the software configuration.

ID#400188278 : solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Moving objects deletes them
Moving packages containing objects with references deletes them

**Workspace – Physical View**

ID# 400225086, 400240067 : solved problem, known since AS4.2.05, solved since AS4.2.12 SP
Definition of node number connector depends on target connector
Since the module used here has 2 connectors with node number switches, the first of these connectors was always used to calculate the node number. In this case, however, the node number connector depends on the target connector, which has now been implemented in this way.

ID#400227548 : solved problem, known since AS4.2.10 SP, solved since AS4.2.11 SP
Check for correct Safety Release for frozen hardware modules not working entirely correctly
When building a project, Automation Studio checks whether the configured Safety Release is also suitable for the configured hardware modules. If an affected safety module is frozen, then Automation Studio uses the data of the last installed hardware upgrade for this module type instead of the data from the frozen state. If different Safety Releases are defined as the minimum and maximum versions in these 2 different HWX versions, then Automation Studio may erroneously output an error message regarding an incorrectly configured Safety Release.

ID#400218925 : solved problem, known since AS4.2.09 SP, solved since AS4.2.09 SP
Error in address calculation
A change in the node number query causes a defined node number to be used to calculate the address, which in this specific case (constellation of hardware modules and their connections, including the node number set via the configuration) resulted in the module address for 5LS182.6−2 to remain empty. The address calculation has not been adjusted to prevent this.

ID#400215361 : solved problem, known since AS4.2.08 SP, solved since AS4.2.09 SP
AS not calculating address for “modbus_any” if connected to CPU via ETH2 instead of ETH1

ID#400212992 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Not permitted to use node number 240 for PLK “traced node”

ID# 400211227, 400212593, 400217551 : solved problem, known since AS4.2.07 SP, solved since AS4.2.09 SP
Data of "virtual hardware module" not written correctly to .br files during compilation if module contained in frozen hardware modules

ID#400190923: solved problem, known since AS4.1.10 SP, solved since AS4.2.06 SP
Settings for master interfaces not applied when replacing 5APC2100 with another CPU

ID#400192902: solved problem, known since AS4.1.09 SP, solved since AS4.2.06 SP
AS does not check if the 'Task class idle time' is smaller than the 'Duration' of the configured task class.

ID#400181888: solved problem, known since AS4.1.10 SP, solved since AS4.2.06 SP
Not possible to freeze the version of FDT/DTM hardware modules
The version of FDT/DTM hardware modules cannot be frozen in Automation Studio.

ID# 400183997, 400191741, 400192970, 400194634, 400208150: solved problem, known since AS4.1.10 SP, solved since AS4.2.06 SP
Not possible to freeze the version of FDT/DTM hardware modules
The version of FDT/DTM hardware modules cannot be frozen in Automation Studio.

ID#400178443: solved problem, known since AS4.2.04, solved since AS4.2.06 SP
Check for VNC server ports already in use only working for Mobile Panels T30 modules are not taken into account.

Workspace – Project Converter
ID#400225632: solved problem, known since AS4.1.13 SP, solved since AS4.2.11 SP
Problems when converting 3x project with 2003 hardware modules
If an AS 3.x project uses a 7EX481.50−1 that is cabled at the end of the PLK line (the module only has one PLK input but no output), but there are other PLK slaves that have a higher node number, then these are lost when converting the project to AS 4.x.
Possible workaround: Because the 7EX481.50−1 does not have a PLK output, it is not possible to connect any additional PLK modules. For this reason, setting the highest node number in the line for all 7EX481.50−1 devices is recommended.

ID#400206649: solved problem, known since AS4.2.07 SP, solved since AS4.2.08 SP
Error converting AS 3.x project that uses an APC910 with 4 LS cards
When attempting to open an AS 3.x project in AS 4.x in which 4 LS cards are connected in an APC910, the converter cannot find a suitable slot for the third and fourth plug−in cards. As a result, the hardware is shown as "unconnected".

ID#400201024: solved problem, known since AS4.1.11 SP, solved since AS4.2.08 SP
Incorrect conversion of an AS 3.x project with multiple 2005 extension racks
If an AS 3.x project has more than one 2005 extension rack, only the first rack is properly converted. All other racks are ignored.

Workspace – Setup
ID#400240572: solved problem, known since AS4.2.11 SP, solved since AS4.2.12 SP
Automation Studio no longer starting after installation
Automation Studio no longer starts after installing AS 4.2.11 SP on a system without installed Technology Guarding.
Possible Workarounds:
− Installation of AS 4.2.10 SP before AS 4.2.11 SP
− Manual installation of Technology Guarding

ID#400205693: new function since AS4.2.08 SP
APC2100/PPC2100: Now possible to also set system tick to 200 s for ARemb

ID#400202250: solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
Unable to start Automation Studio Portable due to version conflict

Workspace – Source Control
ID#400202914: solved problem, known since AS4.2.06 SP, solved since AS4.2.07 SP
SVN sometimes did not delete local directories.
It is possible that SVN does not delete local directories even though not data is deleted from the repository. SVN does not reported this as an error, so AS cannot provide feedback.

Workspace – Startpage
ID#400191527: solved problem, known since AS4.2.05, solved since AS4.2.06 SP
German text on English AS home screen
mapp Technology is not translated on the English home screen.
Workspace - Textsystem

ID#400208091 : solved problem, known since AS4.2.05, solved since AS4.2.09 SP

Long build times with text system builder

In certain network environments in which Automation is executed, build can take a long time or stop completely due to the text system builder.

ID#400193027 : solved problem, known since AS4.2.05, solved since AS4.2.06 SP

Text system editor hiding subsequent lines when editing text

The text system editor hides the subsequent lines when editing text, even if the text being edited only comprises one line.