Contents

B&R Revision Information (08.05.2019) Automation Studio 4.3.9 SP

1

1. Requests and problems by version

2. Requests and problems by product/component

3. 1A4300.02 Automation Studio 4.x

   API ....................................................................................................................... 1

   Build - Fieldbus .................................................................................................. 7

   Build 71 ............................................................................................................. 8

   Build 4.3.4.94 ................................................................................................. 8

   Build 4.3.4.68 ................................................................................................. 8

   Build - Backend .............................................................................................. 8

   Build - C Compiler GCC 4.1.2 ......................................................................... 8

   Build - ConfigurationBuilder .......................................................................... 8

   Build - Fieldbus ............................................................................................... 9

   Build - FinalizeBuild ....................................................................................... 9

   Build - FinalizeBuild 4.3.4.105 ...................................................................... 9

   Build - IEC Compiler ....................................................................................... 9

   Build - IOMBuilder ......................................................................................... 11

   Build - MIBuilder ............................................................................................ 12

   Build - OPC UA ............................................................................................. 12

   Build - rACTION ............................................................................................ 12

   Build - TaskBuilder ........................................................................................ 12

   Build - Transfer To Target ........................................................................... 13

   Build - Transfer To Target 71 ......................................................................... 14

   Build - Transfer To Target 71 ......................................................................... 14

   Build - VCA ...................................................................................................... 14

   Diagnostics - Analyse Network ....................................................................... 14

   Diagnostics - Contextual Watch ....................................................................... 14

   Diagnostics - Debugger ................................................................................... 15

   Diagnostics - Logger ....................................................................................... 15

   Diagnostics - Motion - NC Trace ...................................................................... 15

   Diagnostics - Trace ......................................................................................... 15

   Diagnostics - Trace 71 .................................................................................... 15

   Diagnostics - Watch ....................................................................................... 15

   IO Configuration - CANopen ........................................................................... 16

   IO Configuration - DTM .................................................................................. 16

   IO Configuration - DTM 3rd party ..................................................................... 17

   IO Configuration - Modbus TCP ....................................................................... 17

   IO Configuration - Profibus ............................................................................ 17

   Online Compare - Hardware 4.3.4.67 ............................................................ 17

   Online Services ............................................................................................... 18

   Online Services - Create/Generate Compact Flash .......................................... 18

   Programming - ANSI C .................................................................................... 18

   Programming - ANSI C++ ............................................................................... 18

   Programming - Automation Basic .................................................................... 19

   Programming - Automation Components Configuration Editor 4.3.4.68 .... 19

   Programming - Automation Components Configuration Editor .................. 19

   Programming - CPU Configuration Editor ...................................................... 19

   Programming - Cross Reference ...................................................................... 19

   Programming - Data Type Declaration Table Editor ..................................... 20

   Programming - FBD ........................................................................................ 20

   Programming - Function Table Editor ............................................................. 20

   Programming - Function Table Editor 4.3.4.94 ........................................... 20

   Programming - IO Configuration Editor ......................................................... 20

   Programming - IO Mapping Table Editor ....................................................... 20

   Programming - IO Mapping Table Editor 71 ................................................ 20

   Programming - LD ............................................................................................ 20

   Programming - LD 72 ..................................................................................... 21

   Programming - Motion - ErrorText Table Editor ......................................... 21

   Programming - Motion Components .............................................................. 21

   Programming - OPC UA Default View Editor .............................................. 21

   Programming - SFC ......................................................................................... 22

   Programming - Software Configuration Editor ............................................ 22

   Programming - ST ......................................................................................... 22

   Programming - System Configuration ............................................................ 23

   Programming - System Designer ..................................................................... 24

   Programming - Variable Declaration Table Editor ....................................... 24

   Programming - XML Editor ............................................................................ 24

   Tools - Import Fieldbus Device .................................................................... 24

   Tools - Import/Export EPLAN P8 ................................................................... 25

   Tools - Manage 3rd Party Devices ................................................................. 25

   Tools - Technology Guarding ....................................................................... 25

   Visual Components Editor - VC4 .................................................................. 25

   Workspace - Common ................................................................................... 26

   Workspace - Configuration View .................................................................... 27

   Workspace - Export/Import ............................................................................ 27

   Workspace - Find/Replace ............................................................................. 27

   Workspace - Hardware Catalog ...................................................................... 27

   Workspace - Install Upgrades ....................................................................... 27

   Workspace - Ladder Catalog ......................................................................... 27

   Workspace - Localisation ............................................................................... 27

   Workspace - Logical View ............................................................................. 27

   Workspace - Output Windows ....................................................................... 28

   Workspace - Physical View .......................................................................... 28

   Workspace - Physical View 4.3.4.68 .............................................................. 28

   Workspace - Physical View 4.3.4.67 .............................................................. 29

   Workspace - Print Project .............................................................................. 29

   Workspace - Project Compare ........................................................................ 29

   Workspace - Project Converter .................................................................... 29
## Contents
- Requests and problems by version
- Requests and problems by product/component

### Requests and problems by version

<table>
<thead>
<tr>
<th>ID</th>
<th>Valuation</th>
<th>Solved since</th>
<th>Known since</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>400270742</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.7.01</td>
<td></td>
<td>Stuck booting when Modbus slave connected to X20F2181-2</td>
</tr>
<tr>
<td>400272533</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.4.xx [FR001041.0]</td>
<td></td>
<td>“SystemNullReferenceException” when resizing text box</td>
</tr>
<tr>
<td>400272588</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.4.06 UP</td>
<td></td>
<td>Default value of property &quot;netX configuration file&quot; empty</td>
</tr>
<tr>
<td>400277242</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.08 SP</td>
<td></td>
<td>OPCUA BUILD for AR A4.31 to D4.34 fails when using OPCUA methods.</td>
</tr>
<tr>
<td>400256159</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.08 SP</td>
<td></td>
<td>Cycle time calculated incorrectly</td>
</tr>
<tr>
<td>400278697</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.08 SP</td>
<td></td>
<td>Automatic license extension not possible if Automation Studio licensing was originally performed in an older version</td>
</tr>
<tr>
<td>400265102</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.07 SP</td>
<td></td>
<td>Crash when adding another lease configuration.</td>
</tr>
<tr>
<td>400265132</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.07 SP</td>
<td></td>
<td>ECAD export unable to export PLX hubs</td>
</tr>
<tr>
<td>400265098</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Error message 6035 output when building a configuration</td>
</tr>
<tr>
<td>400256410</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Jom file not updated when renaming hardware module</td>
</tr>
<tr>
<td>400243417</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.05 SP</td>
<td></td>
<td>Program section erroneously displayed as not being run through when enabling synchronous Powerflow mode</td>
</tr>
<tr>
<td>400254384</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.04 UP</td>
<td></td>
<td>Error message 4510 output when building Automation Studio project</td>
</tr>
<tr>
<td>400268096</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.3.04 UP</td>
<td></td>
<td>I/O mapping in Automation Studio for the X67 POWERLINK bus controllers in VxWorks projects is different from FieldbusDESIGNER.</td>
</tr>
<tr>
<td>400264190</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.2.12 SP</td>
<td></td>
<td>Communication between VxWorks and ICN not working if manual I/O offset disabled</td>
</tr>
<tr>
<td>400260623</td>
<td>Problem AS4.3.09 SP</td>
<td>AS4.0.00</td>
<td></td>
<td>Automation Runtime warning 30030 if CAN I/O and CANopen enabled on the same interface</td>
</tr>
<tr>
<td>400263670</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.4.04</td>
<td></td>
<td>Project compiled incorrectly if identical unit ID and namespace in different .unit files</td>
</tr>
<tr>
<td>400260142</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.07 SP</td>
<td></td>
<td>Indentation after &quot;for&quot; loops not always working in ANSI C/C++ source files</td>
</tr>
<tr>
<td>400260029</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.07 SP</td>
<td></td>
<td>Automation Studio crashing table-based data type declaration editor during copy/paste</td>
</tr>
<tr>
<td>400257014</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Warnings 27408 and 32183 in Automation Runtime logbook</td>
</tr>
<tr>
<td>400244601</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Assigning comparison result to a bit not working with certain SG4 target systems (INTEL),</td>
</tr>
<tr>
<td>400262535</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Transfer no longer possible after setting up a target system in APC600 or APC700 product family</td>
</tr>
<tr>
<td>400259797</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>&quot;Analysis network&quot; throwing exception when calculating cross-communications of ICN modules and X20 slices</td>
</tr>
<tr>
<td>400256237</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Error when starting multiple trace recordings</td>
</tr>
<tr>
<td>400254316</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Values of individual bits not displayed correctly in synchronous Powerflow mode in the Ladder Diagram editor</td>
</tr>
<tr>
<td>400255847</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Value variable not displayed correctly in tooltips when monitor mode enabled</td>
</tr>
<tr>
<td>400254675</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Re-imported fieldbus devices not applied when project reopened</td>
</tr>
<tr>
<td>400249985</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Incorrect search term is searched for</td>
</tr>
<tr>
<td>400260079</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Not possible to enter node number for X67 module if connected to X08T...</td>
</tr>
<tr>
<td>400247801</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.05 UP</td>
<td></td>
<td>Not possible to assign PS2 keyboard .dis file to VNC server on a PP480 terminal</td>
</tr>
<tr>
<td>400245116</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.05 SP</td>
<td></td>
<td>Group names with DTM devices not copied</td>
</tr>
<tr>
<td>400251955</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.05 SP</td>
<td></td>
<td>New hardware module version not fully recognized until project reopened.</td>
</tr>
<tr>
<td>400236717</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.04 SP</td>
<td></td>
<td>HART modules do not work correctly after copy-−and−paste</td>
</tr>
<tr>
<td>400236415</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.04 SP</td>
<td></td>
<td>Possible errors with &quot;Search in files&quot; and OPC tag files</td>
</tr>
<tr>
<td>400233124</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.04 SP</td>
<td></td>
<td>Saving the hardware configuration editor taking a long time</td>
</tr>
<tr>
<td>400257383</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.04 SP</td>
<td></td>
<td>If an IP address other than the default IP address (127.0.0.1) is configured for a standard PC, the connection is still established using the default IP address after Automation Studio is closed and restarted.</td>
</tr>
<tr>
<td>400255540</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.3.03</td>
<td></td>
<td>Possible problems caused by imported PROFIBUS GSD files</td>
</tr>
<tr>
<td>412345</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.2.13 SP</td>
<td></td>
<td>Module context not set correctly when opening a source file from the software configuration</td>
</tr>
<tr>
<td>400243919</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.2.11 SP</td>
<td></td>
<td>Delay of several seconds when exiting input mode in Ladder Diagram editor</td>
</tr>
<tr>
<td>400215653</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.2.09 SP</td>
<td></td>
<td>CANopen networks with many slaves not always starting</td>
</tr>
<tr>
<td>400206632</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.2.09 SP</td>
<td></td>
<td>Module context not set correctly when opening a source file from the software configuration</td>
</tr>
<tr>
<td>400256434</td>
<td>Problem AS4.3.08 SP</td>
<td>AS4.1.16 SP</td>
<td></td>
<td>New module not disabled if replacing disabled X20 module</td>
</tr>
<tr>
<td>400151208</td>
<td>Problem AS4.3.07 SP</td>
<td>AS4.3.07 SP</td>
<td></td>
<td>ARNC0 Trace: Trace data not matching trigger delay</td>
</tr>
<tr>
<td>400250529</td>
<td>Problem AS4.3.07 SP</td>
<td>mapp/View 5.2.0</td>
<td></td>
<td>Comment incorrectly revoked in XML editor</td>
</tr>
<tr>
<td>400249320</td>
<td>Problem AS4.3.07 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Backtrace of unhandled C++ exceptions</td>
</tr>
<tr>
<td>400253272</td>
<td>Problem AS4.3.07 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>Error message when using function block as local variable in a function</td>
</tr>
<tr>
<td>400215788</td>
<td>Problem AS4.3.07 SP</td>
<td>AS4.3.06 SP</td>
<td></td>
<td>&quot;Error parsing an OPC UA configuration module&quot; if the time format set in Windows has no &quot;=&quot; set as the delimiter</td>
</tr>
<tr>
<td>400242545</td>
<td>Problem AS4.3.07 SP</td>
<td>AS4.3.05 UP</td>
<td></td>
<td>Incorrect variable name output for Error 6762 in PV mapping</td>
</tr>
</tbody>
</table>
Problem AS4.3.07 SP AS4.3.05 SP Rebuild cannot be performed after creating project installation package.

Problem AS4.3.07 SP AS4.3.05 SP Compiler for IEC languages crashing when using an action created in Continuous Function Chart (CFC).

Problem AS4.3.07 SP AS4.3.05 SP Error message when converting to STRING or WSTRING.

Problem AS4.3.07 SP AS4.3.05 SP Error message if a variable in a function block or function has the same name as a library constant.

Problem AS4.3.07 SP AS4.3.05 SP Not all elements of a structure offered in code autocomplete after entering a period in the ANSI C++ editor.

Problem AS4.3.07 SP AS4.3.05 SP No values displayed in Ladder Diagram editor if the file header contains a block comment and monitor mode in actions is enabled.

Problem AS4.3.07 SP AS4.3.05 SP Recent project list deleted after installing 4.3.5 SP.

Problem AS4.3.07 SP AS4.3.05 SP Function block MC_BR_JogVelocity contained twice in Ladder Diagram Catalog.

Problem AS4.3.07 SP AS4.3.05 SP Cursor moves to output window during build.

Problem AS4.3.07 SP AS4.3.04 UP Some references of user-defined units not working.

Problem AS4.3.07 SP AS4.3.03 SP Fieldbus devices re-imported when opening a project.

Problem AS4.3.07 SP AS4.2.11 SP No values displayed in monitor mode of an action created in Ladder Diagram.

Problem AS4.3.07 SP AS4.3.04 SP Connection to incorrect CPU after configuration change.

Problem AS4.3.07 SP AS4.2.09 SP New structure elements not immediately available in SmartEdit selection list.

Problem AS4.3.07 SP AS4.3.05 SP Error if the name of the .fun file does not match the library name.

Problem AS4.3.06 SP VC 4.34.1 Error 7001 when compiling project converted AS 4.2 with an AP800 key extension.

Problem AS4.3.06 SP AS4.06 SP - PDOI addresses calculated incorrectly in a VxWorks configuration.

Problem AS4.3.06 SP AS4.3.05 SP Incorrect array sizes for certain derived data types.

Problem AS4.3.06 SP AS4.3.05 SP Error 430 on build possible if project application modules are disabled in an Automation Studio project.

Problem AS4.3.06 SP AS4.3.05 SP I/O configuration of DTM modules lost on copy/paste if properties window open.

Problem AS4.3.06 SP AS4.3.05 SP Cannot copy parameters of functions, function blocks and structure elements to another file.

Problem AS4.3.06 SP AS4.3.05 SP Replacing an expression in a selected area also replacing expressions outside the area.

Problem AS4.3.06 SP AS4.3.05 SP SmartEdit support no longer working for structures with nesting depth greater than 3.

Problem AS4.3.06 SP AS4.3.04 UP Unhandled exception when disabling/enabling "Display array elements" if the OPC UA tag is of a directly derived data type.

Problem AS4.3.06 SP AS4.3.04 SP Cyclic communication on X20BC0087 not working.

Problem AS4.3.06 SP AS4.3.04 SP User units not built if project in path with spaces.

Problem AS4.3.06 SP AS4.3.04 SP System diagnostics and web server not working in Automation Runtime V3.00 to V3.07.

Problem AS4.3.06 SP AS4.3.04 SP Use of special DTM devices resulting in build errors.

Problem AS4.3.06 SP AS4.3.04 SP Direct derivatives handled incorrectly in IEC languages and B&R Automation Basic for certain SG4 target systems (ARM).

Problem AS4.3.06 SP AS4.3.04 SP System configuration not set for drives with hardware module version 2.2.0.0.

Problem AS4.3.06 SP AS4.3.04 SP Cyclic communication on X20BC0087 not working.

Problem AS4.3.06 SP AS4.3.04 SP User units not built if project in path with spaces.

Problem AS4.3.06 SP AS4.3.04 SP System diagnostics and web server not working in Automation Runtime V3.00 to V3.07.

Problem AS4.3.06 SP AS4.3.04 SP Use of special DTM devices resulting in build errors.

Problem AS4.3.06 SP AS4.3.04 SP Direct derivatives handled incorrectly in IEC languages and B&R Automation Basic for certain SG4 target systems (ARM).

Problem AS4.3.06 SP AS4.3.04 SP System configuration not set for drives with hardware module version 2.2.0.0.

Problem AS4.3.06 SP AS4.3.04 SP Cyclic communication on X20BC0087 not working.

Problem AS4.3.06 SP AS4.3.04 SP User units not built if project in path with spaces.

Problem AS4.3.06 SP AS4.3.04 SP System diagnostics and web server not working in Automation Runtime V3.00 to V3.07.

Problem AS4.3.06 SP AS4.3.04 SP Use of special DTM devices resulting in build errors.

Problem AS4.3.06 SP AS4.3.04 SP Direct derivatives handled incorrectly in IEC languages and B&R Automation Basic for certain SG4 target systems (ARM).

Problem AS4.3.06 SP AS4.3.04 SP System configuration not set for drives with hardware module version 2.2.0.0.

Problem AS4.3.06 SP AS4.3.04 SP Cyclic communication on X20BC0087 not working.

Problem AS4.3.06 SP AS4.3.04 SP User units not built if project in path with spaces.

Problem AS4.3.06 SP AS4.3.04 SP System diagnostics and web server not working in Automation Runtime V3.00 to V3.07.

Problem AS4.3.06 SP AS4.3.04 SP Use of special DTM devices resulting in build errors.

Problem AS4.3.06 SP AS4.3.04 SP Direct derivatives handled incorrectly in IEC languages and B&R Automation Basic for certain SG4 target systems (ARM).

Problem AS4.3.06 SP AS4.3.04 SP System configuration not set for drives with hardware module version 2.2.0.0.

Problem AS4.3.06 SP AS4.3.04 SP Cyclic communication on X20BC0087 not working.

Problem AS4.3.06 SP AS4.3.04 SP User units not built if project in path with spaces.

Problem AS4.3.06 SP AS4.3.04 SP System diagnostics and web server not working in Automation Runtime V3.00 to V3.07.

Problem AS4.3.06 SP AS4.3.04 SP Use of special DTM devices resulting in build errors.
<table>
<thead>
<tr>
<th>Problem</th>
<th>AS4.3.05 SP</th>
<th>AS4.3.04 SP</th>
<th>AS4.3.03 SP</th>
</tr>
</thead>
<tbody>
<tr>
<td>571265</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
</tr>
<tr>
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<td>AS4.4.03</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
</tr>
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<td>5692445</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
</tr>
<tr>
<td>570245</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
</tr>
<tr>
<td>565300</td>
<td>AS4.4.02</td>
<td>AS4.4.02</td>
<td>AS4.4.02</td>
</tr>
<tr>
<td>572295</td>
<td>AS4.4.02</td>
<td>AS4.4.02</td>
<td>AS4.4.02</td>
</tr>
<tr>
<td>571835</td>
<td>AS4.4.02</td>
<td>AS4.4.02</td>
<td>AS4.4.02</td>
</tr>
<tr>
<td>567290</td>
<td>AS4.4.02</td>
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<td>AS4.4.02</td>
</tr>
<tr>
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<td>400240018</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
<td>AS4.4.03</td>
</tr>
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<td>400240306</td>
<td>AS4.4.04</td>
<td>AS4.4.04</td>
<td>AS4.4.04</td>
</tr>
<tr>
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<td>AS4.4.04</td>
<td>AS4.4.04</td>
<td>AS4.4.04</td>
</tr>
<tr>
<td>400236771</td>
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Problem AS4.3.05 SP AS4.3.03 Invalid code for reACTION program with nonexistent function block output

Problem AS4.3.05 SP AS4.3.03 "Find in Files" causes errors 5503 and 5508 in customer project

Problem AS4.3.05 SP AS4.3.03 Error during application transfer when using large bitmaps in VC4−based HMI application

Problem AS4.3.05 SP AS4.3.03 No code generated for statement consisting of single variable.

Problem AS4.3.05 SP AS4.3.03 "\" displayed in tooltip for REFERENCE TO variables in the ANSI C text editor

Problem AS4.3.05 SP AS4.3.03 Improved error message

Problem AS4.3.05 SP AS4.3.03 Debug toolbar remaining hidden

Problem AS4.3.05 SP AS4.3.03 Possible errors with XDD files missing attribute "lowLimit" for objects

Problem AS4.3.05 SP AS4.3.03 Contextual Watch: Update time displayed incorrectly

Problem AS4.3.05 SP AS4.3.03 No error message for invalid task class tolerance

Problem AS4.3.05 SP AS4.3.03 Error messages on build when using actions in FBD programs or FBD function blocks

Problem AS4.3.05 SP AS4.3.03 Invalid preprocessor directive #if containing defined function blocks

Problem AS4.3.05 SP AS4.3.03 "Tools" is opened in text editors

Problem AS4.3.05 SP AS4.3.03 Incorrect error message on compilation of reACTION task when using self−implemented function blocks

Problem AS4.3.05 SP AS4.3.03 Crash when pressing "Insert" key in Watch window

Problem AS4.3.05 SP AS4.3.03 Code−based automatic indentation not working correctly in ANSI C and ANSI C++ after preprocessor directive #if containing defined function blocks

Problem AS4.3.05 SP AS4.3.03 Copy/Paste of DTM modules not working correctly

Problem AS4.3.05 SP AS4.3.03 Copy/Paste of DTM modules not working correctly

Problem AS4.3.05 SP AS4.3.03 Error during generating cross reference

Problem AS4.3.05 SP AS4.3.03 Cannot start debugger after Automation Studio crash

Problem AS4.3.05 SP AS4.3.03 Error during application transfer when using large bitmaps in VC4−based HMI application

Problem AS4.3.05 SP AS4.3.03 Crash when pressing "Insert" key in Watch window

Problem AS4.3.05 SP AS4.3.03 Internal error when generating cross reference

Problem AS4.3.05 SP AS4.3.03 No code generated for statement consisting of single variable.
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<tr>
<th>ID</th>
<th>Description</th>
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<tr>
<td>40022301</td>
<td>Problem AS4.3.04 SP AS4.3.04 SP FPU stack overflow when using operator &quot;SEL&quot;</td>
</tr>
<tr>
<td>40022315</td>
<td>Error message &quot;No rule to make target&quot; when using mapp View with GCC 2.95.3</td>
</tr>
<tr>
<td>40022316</td>
<td>Variables in I/O mapping not taken into account in EtherNet/IP project</td>
</tr>
<tr>
<td>40022317</td>
<td>Invalid results for certain SG4 target systems (ARM) when performing comparisons in IEC languages and B&amp;R Automation Basic</td>
</tr>
<tr>
<td>40022318</td>
<td>Error message 5864 output when building IEC program</td>
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<tr>
<td>40022319</td>
<td>While transferring a project to X20CP0410 Automation Studio is reporting that there was not enough memory available on the target system</td>
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<tr>
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<td>Problem AS4.3.04 SP AS4.3.03 Remote install not working on controller in mode BOOT if corresponding option not active in project</td>
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<tr>
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<td>Installation from USB Stick from Boot AR does not work, if option &quot;Activate USB Install&quot; is not activated</td>
</tr>
<tr>
<td>40022322</td>
<td>Property &quot;Transfer objects only if relevant changes&quot; not available for Automation Runtime C4.25</td>
</tr>
<tr>
<td>40022323</td>
<td>No longer possible to load Automation Studio project with default PC ARwin on any ARwin target system</td>
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<tr>
<td>40022324</td>
<td>Configuration files not copied when creating a project installation package</td>
</tr>
<tr>
<td>40022325</td>
<td>Controller freezing when updating with large change volumes</td>
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<tr>
<td>40022326</td>
<td>On creating a remote install structure for USB install not all necessary configuration files are included</td>
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<tr>
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<td>Problem AS4.3.04 SP AS4.3.03 empty user folder results in an incomplete table of content entry</td>
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<td>Problem AS4.3.04 SP AS4.3.03 POWERLINK cycle time calculation generating error entries in &quot;controlled node&quot; configuration</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Automation Studio crashing in rare cases when opening an ANSI C file</td>
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<td>Implicit instance variables for normal function block calls not added to Interface of Automation Basic function block when saving the source code</td>
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<td>Problem AS4.3.04 SP AS4.3.03 UserRole system does not allow special characters for usernames.</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Moving entries with drag--and--drop not working in the table editor for data type declarations</td>
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<td>Long wait time when enabling monitor mode if a table editor for declarations is open</td>
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<td>Possible Automation Studio crash when importing some XDD files</td>
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<tr>
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<td>Problem AS4.3.04 SP AS4.3.03 ACOPOS parameter table: No error message if incorrect decimal point</td>
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<tr>
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<td>Editor should print line number and position of XML parse errors</td>
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<tr>
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<td>No units in Engineering Unit Catalog</td>
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<td>Possible crash when opening software configuration if a project is opened automatically when starting Automation Studio</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Formatting of marked section not working correctly in Structured Text editor</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Outlining not working correctly inside CASE statement in Structured Text</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Autocomplete not working correctly if search dialog box open</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Automatic indentation not working correctly in Structured Text editor after ELSE in CASE statement</td>
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<td>Corresponding line in text editor not marked when double-clicking on entry in one of the output windows for general messages, output results or finding in files</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Text on which the cursor is placed searched for instead of previous search when looking for next expression</td>
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<tr>
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<td>Problem AS4.3.04 SP AS4.3.03 ANSI C code snippets erroneously added in Structured Text editor</td>
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<td>Problem AS4.3.04 SP AS4.3.03 Synchronizing with the Project Explorer in the table editors not working if opened with &quot;Goto declaration of&quot;</td>
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<td>Problem AS4.3.04 SP AS4.3.03 No longer possible to enable table editor for variable declaration when using SmartEdit selection list</td>
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<td>40022349</td>
<td>Problem AS4.3.04 SP AS4.3.03 Exporting iCN device in XDD format generating a file that is not compliant with the EPSG</td>
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<td>40022350</td>
<td>Problem AS4.3.04 SP AS4.3.03 Missing mapp Motion resulting in missing channels</td>
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<td>40022351</td>
<td>VC4 editor crashing when opening a project containing incorrect entries in data sources</td>
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<td>40022352</td>
<td>Tab of active editor not displayed</td>
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<td>Automation Studio crashes on start if the Output Results Window is set to &quot;auto hide&quot;</td>
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<td>Go to next Search Result with F4 is no longer working after opening the editor position by doubleclick.</td>
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Requests and problems by product/component:

1A4300.02 Automation Studio 4.x
API
ID#400231843 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
APIAdapter not given to localization

AS – Build – Fieldbus
ID#400233060 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Cyclic communication on X20BC0087 not working
If an XML configuration file for the X20BC0087 is generated with Automation Studio, cyclic Modbus TCP communication does not work if the firmware version on the X20BC0087 is prior to V1.39.

Build
ID#400274384 : solved problem, known since AS4.3.04 UP, solved since AS4.3.09 SP
Error message 4510 output when building Automation Studio project
If a library containing IEC declaration files is used as a static library in an Automation Studio project, error message 4510 is output during build.

ID#400246174 : solved problem, known since AS4.3.04 SP, solved since AS4.3.07 SP
Build error when OPC AR and Windows server mappings have same name

ID#400252157 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
Rebuild cannot be performed after creating project installation package

ID#590775 : solved problem, known since AS4.5.01, solved since AS4.3.06 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# 400245311, 400249603 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
User units not built if project in path with spaces

ID#400240306 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Large amount of parse errors leads to unhandled exception
If one declaration file has a large amount of parse errors a unhandled exception can occur

ID#400241328 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Inconsistent number of warnings displayed after build

ID# 400236771 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
System.NullReference – Exception when using multiple .hw files
The use of multiple .hw files leads to a zero reference exception in the OPC UA builder if the CPU configuration is not entered in the first .hw file.

ID#400230338 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Error 9234 output if binary task mapped when using an SGA ARM target system

ID#564425 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Rebuild not working when using empty groups in ACOPOS parameter table

ID#400232396 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Build error for project when keyword ACTION in a comment
An error occurs when building a project if "/" is used to designate a comment for an IEC function or action and the keyword ACTION is also used in the comment.

ID#400230774 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Semantic errors in IEC declarations generated automatically from C files reported in the wrong file
If semantic errors are detected in IEC declaration files generated automatically from IEC declaration files during parsing, then the errors are reported in the automatically generated IEC declaration file.
With the error correction, these types of errors are now noted in the C file.

ID#400231210 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Internal error when generating cross reference
When assigning a structure variable to another (e.g. line 33 in pwuser.c), the compiler implicitly calls function "memcpy", which caused an error in the cross reference.

ID#400228453 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Error message "No rule to make target" when using mapp View with GCC 2.95.3

ID#40219591 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 SP
Cannot create cross-reference

Build 71
ID#40022397 : new function since AS4.3.04 SP
Usability requests for transfer setting dialog box
The transfer setting dialog box has been modified. Only those transfer settings that are relevant for the current transfer mode are displayed.

Build 4.3.4.94
ID#400228451 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Unjustified build error when using functions with "_" in name
If underscores ("_") are used in function names in a library, it is possible that invalid build errors occur. This error has been corrected.
Function names without an underscore can be used as a workaround.

ID#400227703 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Invalid warning when using arrays of strings

Build 4.3.4.68
ID# 400221620, 400222383, 400233586 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Double quotation marks in library description causing error during build

ID#400220173 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 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.

Build – Backend
ID#565300 : solved problem, known since AS4.4.02, solved since AS4.3.05 SP
Warning 4601 output during AS build on some SG4 target systems although debugging enabled

Build – C Compiler GCC 4.1.2
ID#400243932 : solved problem, known since AS4.3.06 SP, solved since AS4.3.07 SP
Backtrace of unhandled C++ exceptions
Function exit() in the AS toolchain was implemented to generate a meaningful backtrace in case of unhandled C++ exceptions.

Build – ConfigurationBuilder
ID#400260623 : solved problem, known since AS4.0.00, solved since AS4.3.09 SP
Automation Runtime warning 30030 if CAN I/O and CANopen enabled on the same interface

ID#400257014 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP
Warnings 27408 and 32183 in Automation Runtime logbook
If "Via SafeLOGIC" is set instead of "Directly" for parameter DigitalOutput0102 on an X67SI8103 safety hardware module and this safety hardware module is connected to the SafeLOGIC controller via an ICN connection, then warnings 27408 and 32183 are entered in the logbook after the transfer and the data on this output channel is not transferred.

ID#400245296 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
System diagnostics and web server not working in Automation Runtime V3.00 to V3.07.
If Automation Runtime V3.00 to V3.07 is used in a configuration and system diagnostics or the web server is enabled, the B&R modules required for this (arsdm.br, arsdhmbr.br, arsdmsv.br, arsdmsub.br, webserv.br) are not copied to the output directory and thus not transferred to the target system. As a result, system diagnostics and the web server do not work. In addition, error message 9270 ("No rule to make target") is reported during an incremental build.

ID#400220539 : solved problem, known since AS4.1.12 UP, solved since AS4.3.04 SP

Error 6999 im when building sysconf module if hostname contains "0x"

Build – Fieldbus

ID#400245190 : solved problem, known since AS4.2.12 SP, solved since AS4.3.09 SP

Communication between VxWorks and ICN not working if manual I/O offset disabled

ID#400268096 : solved problem, known since AS4.3.04 UP, solved since AS4.3.09 SP

I/O mapping in Automation Studio for the X67 POWERLINK bus controllers in VxWorks projects is different from FieldbusDESIGNER.

The following HW upgrades are necessary to solve the problem:
X67BC81RT.L12 version 2.9.3.0
X67BC8321-1 version 2.9.3.0
X67BC8321.L12 version 2.9.3.0
X67BC8331 version 2.9.3.0
X67BC8513.L12 version 2.9.3.0

ID#400238822 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP

Use of special DTM devices resulting in build errors

Some devices imported as DTMs can cause an error during build.

ID#400245370 : solved problem, known since unbekannt, solved since AS4.3.06 SP

PDOI addresses calculated incorrectly in a VxWorks configuration

ID#400236265 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

FieldbusDESIGNER creating incorrect register entries in register control table in the HTML file for Modbus

ID# 400227926, 400228511 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP

Variables in I/O mapping not taken into account in EtherNet/IP project

ID#544635 : solved problem, known since AS4.2.06 SP, solved since AS4.3.04 SP

Data exchange between 2 X20SL8100 devices not working

Build – FinalizeBuild

ID#400249976 : solved problem, known since AS4.3.05 SP, solved since AS4.3.06 SP

Error 430 on build possible if project application modules are disabled in an Automation Studio project

The error occurs exactly if a program is mapped only in the respective disabled application module.

ID#400230349 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP

Inconsistencies possible if a library is provided with a Technology Package and older versions of the same library are installed outside the framework of the Technology Package

In this case, it is possible that older versions of the library are applied to the Automation Studio project in error. This can result in version inconsistencies being output as error messages when the project is compiled.

Build – FinalizeBuild 4.3.4.105

ID#400224998 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 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.

Build – IECCompiler

ID#400265098 : solved problem, known since AS4.3.06 SP, solved since AS4.3.09 SP

Error message 6035 output when building a configuration

Error message 6035 is output if a normal function block call is used in a B&R Automation Basic program, the called function block contains a REFERENCE variable and an SG3 target system is used.

ID#400255901 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP

Assigning comparison result to a bit not working with certain SG4 target systems (INTEL).

ID#599000 : solved problem, known since AS4.3.06 SP, solved since AS4.3.07 SP
Error message when building a ladder diagram if a “set” coil is used

If a “set” coil is used with a REFERENCE TO BOOL variable in a ladder diagram and the IEC Check library is contained in the project, an error message is output during build for certain SG4 target systems (ARM).

ID#400253272 : solved problem, known since AS4.3.06 SP, solved since AS4.3.07 SP
Error message when using function block as local variable in a function

If a function block is used as a local variable in a function, an error message can be output during build for certain SG4 target systems (ARM). The error message is output if a REFERENCE variable is used in the function block.

ID#400253942 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
Compiler for IEC languages crashing when using an action created in Continuous Function Chart (CFC)

The crash only occurs if a function block is used in the CFC action.

ID#400252754 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
Error message when converting to STRING or WSTRING

If conversion to STRING or WSTRING takes place in the Ladder Diagram programming language, an error message is output for certain SG4 target systems (ARM) during build.

ID#400251670 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
Error message if a variable in a function block or function has the same name as a library constant

If a variable in a function block or function of a library has the same name as a library constant, an error message is output during build for certain SG4 target systems (ARM).

ID#400247382 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Direct derivatives handled incorrectly in IEC languages and B&R Automation Basic for certain SG4 target systems (ARM)

An incorrect offset is used for read or write access to elements of variables that are direct derivatives of arrays of character strings (STRING or WSTRING).

ID#400242190 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Error messages on build when using instruction actions in FBD programs or FBD function blocks

Error messages are output for some SG4 target systems (ARM) on build if instruction actions are used in FBD programs or FBD function blocks.

ID# 400240172, 400240400 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Error messages 1166 and 1200 output during build

After changing several source files, it can happen in rare cases that the build process outputs error messages 1166 and 1200 although the entire configuration is built without errors.

ID#400239903 : solved problem, known since AS4.3.05 SP, solved since AS4.3.05 SP
Certain local variables in functions not initialized in IEC languages and B&R Automation Basic on some SG4 target systems

If a local variable in a function is a structure or function block instance, then this variable is not initialized when the function is called.

ID#572295 : solved problem, known since AS4.4.02, solved since AS4.3.05 SP
Invalid results for certain SG4 target systems (ARM) when performing comparisons in IEC languages and B&R Automation Basic

ID#571835 : solved problem, known since AS4.4.02, solved since AS4.3.05 SP
Different results calculated from division in IEC languages and B&R Automation Basic on some SG4 target systems

ID#571265 : solved problem, known since AS4.4.03, solved since AS4.3.05 SP
Low precision with REAL and LREAL literals in IEC languages and B&R Automation Basic on some SG4 target systems

ID#400236951 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Error message “Conversion to non−scalar type requested” when calling a function block with VAR_IN_OUT parameters

On some SG4 target systems, error message “Conversion to non−scalar type requested” is output in programming languages Ladder Diagram (LD), Function Block Diagram (FBD) and Continuous Function Chart (CFC) when calling a function block with VAR_IN_OUT parameters. This occurs if a VAR_IN_OUT parameter is a structure.

ID#567290 : solved problem, known since AS4.4.02, solved since AS4.3.05 SP
Invalid code when calling function block with VAR_IN_OUT parameters
On some SG4 target systems, incorrect code is generated in programming languages Ladder Diagram (LD), Function Block Diagram (FBD) and Continuous Function Chart (CFC) when calling a function block with VAR_IN_OUT parameters. This occurs if a VAR_OUT parameter has data type ARRAY, structure, STRING or WSTRING.

ID#400232697 : solved problem, known since AS4.3.03, solved since AS4.3.05 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#400232011 : solved problem, known since AS4.3.04 SP, solved since AS4.3.04 SP
FPU stack overflow when using operator "SEL"
If operator "SEL" is used with operand REAL or LREAL, at least one of the operands is an array element and function "CheckBounds" from library "IEC check" exists, then invalid machine code is generated. As a result of this invalid machine code, the target system enters operating state SERVICE.

ID#400231663 : new function since AS4.3.05 SP
Project build not working correctly if project contains IEC library called "Operator", "Convert" or "AstecCon"
The B&R modules from IEC programs or IEC libraries are not created even though no error messages are output during compilation.

ID#400232267 : solved problem, known since AS4.4.03, solved since AS4.3.05 SP
Incorrect return value of functions "memcpy", "memset", "strcat" and "strcpy" on some SG4 target systems
In the IEC programming languages and in B&R Automation Basic, functions "memcpy", "memset", "strcat" and "strcpy" should return the address of the bytes in the target memory that follow the copied data as the result. On some SG4 target systems, however, these functions return the start address of the target memory as the result.

ID#400230616 : solved problem, known since AS4.3.03, solved since AS4.3.05 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# 400230193, 400233527, 400236683 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
No code generated for statement consisting of single variable.
In programming languages Structured Text and B&R Automation Basic, a statement can consist of a single variable. In this case, the variable is entered in the generated BR module. On some SG4 target systems, this type of statement is ignored and the variable is not entered in the BR module.

ID#400227775 : solved problem, known since AS4.3.03, solved since AS4.3.04 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#400223132 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Error message 5884 output when building IEC program
If the data type of a local variable contains a function block with a buffered variable listed as RETAIN, then error message 5884 is output during the build.

ID# 400216230, 400220632 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 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#400219756 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 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.

Build – IOMapBuilder
ID#400242545 : solved problem, known since AS4.3.05 UP, solved since AS4.3.07 SP
Incorrect variable name output for Error 6762 in PV mapping
When a PV is mapped to an internal function block variable, the wrong variable name is specified in the resulting error message.

ID#400247425 : new function since AS4.3.06 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\F585345\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\F585345\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 "=" is used.

ID#400222419 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 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::FiltTask:FiltVar1". Please assign task class manually".

Build – MCBuilder

ID#582820 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP

Simulation mode not set for drives with hardware module version 2.2.0.0

The simulation mode set for the hardware module (only for the ACP10 / ARNC0 system) has no effect if the drive has hardware module version 2.2.0.0.

Build – OPC–UA

ID#400277442 : solved problem, known since AS4.3.08 SP, solved since AS4.3.09 SP

OPCUA BUILD for AR A4.31 to D4.34 fails when using OPCUA methods.

The BUILD of the project will fail during OPCUA BUILD when using OPCUA methods and the AR version is > A431 and < D434.

ID#400246009 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

OpcUs >FUB variable shown as 'XX' on mappView with Information Model 2.00

When using FUB member variables in a project where OPCUA data model V2.00 is active the target can not interpret these members due to an error in the outputformat gerated by the OPCUA builder. The connected tags will show "XXX" instead of the numeric value.

ID#400240018 : solved problem, known since AS4.3.05 SP, solved since AS4.3.05 SP

Special charcters in the description cause a Decoding error in the OpcUaServer on the PLC

When using special charcters (<, >,...) as part of the description of a structure definition this will cause teh OpcUaServer on the PLC to fail decoding the OPCUA configuration.

ID# 400236765, 400241369, 400242565 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Type not defined correctly in some cases if an OPCUA project contains objects of type function block

If an object is enabled in an OPCUA project generated for model version 2.00 that is a function block and this function block has members that are function blocks, then the data types for these members are not defined correctly.

Build – reACTION

ID#400231048 : solved problem, known since AS4.2.10 SP, solved since AS4.3.05 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.

ID#400231363 : solved problem, known since AS4.3.03, solved since AS4.3.05 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.

Build – Taskbuilder

ID#400251703 : solved problem, known since ARSG4_4.26.5_E04.26, solved since AS4.3.07 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.

Build – Transfer To Target

ID#400262535 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP
Transfer no longer possible after setting up a target system in APC600 or APC700 product family
An Automation Runtime conflict is always reported.

ID#400247169 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Correct RUC package not generated if a relative user path starts with a period ("./")

ID#400242072 : solved problem, known since AS4.2.10 SP, solved since AS4.3.06 SP
Incorrect text regarding license requirements in transfer window

ID#400245536 : solved problem, known since ARSG4_4.34.5_E04.34, solved since AS4.3.06 SP
Misleading error message if installation disk is slightly too small
If the installation disk is slightly too small a misleading error message was shown.
The calculation of required disk space was changed. The corresponding error message was simplified.

ID#400241677 : solved problem, known since ARSG4_4.34.4_D04.34, solved since AS4.3.05 SP
Relative path with period (./) to user folder not interpreted correctly during project installation

ID#400240171 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Cannot close transfer window if no or extremely slow connection to target system

ID#400233623 : solved problem, known since AS4.2.10 SP, solved since AS4.3.05 SP
Error during application transfer when using large bitmaps in VCA-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# 400230983, 400229280 : new function since AS4.3.05 SP
Tool BR.TL.BRMModProjectDependency.exe
Usage: BR.TL.BRMModProjectDependency.exe <BRModule> –D <dep|indep>

ID#400231616 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
While transferring a project to X20CP0410 Automation Studio is reporting that there was not enough memory available on the target system

ID#400231880 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Incorrect information displayed that restart is necessary during transfer

ID#400229235 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Remote install not working on controller in mode BOOT if corresponding option not active in project

ID#400229115 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Installation from USB Stick from Boot AR does not work, if option "Activate USB Install" is not activated

ID#400229119 : new function since AS4.3.04 SP
Property "Transfer objects only if relevant changes" not available for Automation Runtime C4.25

ID#400228403 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
No longer possible to load Automation Studio project with default PC ARwin on any ARwin target system
In this case, a difference in the Automation Runtime type is erroneously reported and the project cannot be loaded to the target system.

ID#400226588 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Configuration files not copied when creating a project installation package
When creating a project installation package including support for AR<4.33, configuration files are not copied under certain circumstances. If a configuration file in the project is not assigned to target memory SYSROM, then it will not be copied.

ID#400223470 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Controller freezing when updating with large change volumes
It is possible when updating with large change volumes that the transfer fails or the controller freezes.
This occurs more often on a controller that was set up using USB offline install.
On creating a remote install structure for USB install not all necessary configuration files are included.

On creating the remote install structure during creating a project installation package (PIP) not all necessary configuration files are included. The fix corrects this misbehavior, the configuration files ashwd, arconfig and asfw are included.

If there is an empty folder in the user directory to transfer the corresponding table of content entry will be generated incomplete.

This fix will correct the misbehavior. The table of content now has a correct entry for empty folders.

During mandatory initial installation due to changed configuration version (i.e.: new project) no user files are installed. Bug fixes in ServicePack AS 4.3.4 will fix these misbehavior. User files are installed during mandatory initial installation.

When compiling a project with an AP800 key extension without configured key mapping for a new Studio, error 7001 may occur during compilation.

Diagnose cycle time calculation returns an incorrect result.

When compiling a project with an AP800 key extension without configured key mapping for a new Studio, error 7001 may occur during compilation.

The cycle time calculation returns an incorrect result.

If POWERLINK cycle time calculation is started for a controlled node configuration, error entries for "Asynchronous timeout" and "Response timeout" are generated.

The necessary parameters for checking are not found in the configuration and therefore checking takes place using the default value.

Powerlink cycle time calculation generating error entries in "controlled node" configuration.

Contextual Watch displays the time that has elapsed since the variable value was last updated. This time span was displayed incorrectly. Value ">60 seconds" was never displayed; other values were sometimes displayed incorrectly.

The display of BOOL values has been improved in Debugger Watch and Contextual Watch.
If Automation Studio is installed in a path that contains spaces, the following problems occur:
− Error messages are output to the debugger console when the debugger is started.
− "Pretty print" does not work in Debugger Watch and Contextual Watch.

Diagnostics − Debugger
ID#400240207 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Incorrect code position indicated if outlining is used when debugging in the text editor

ID#400236531 : solved problem, known since AS4.2.09 SP, solved since AS4.3.05 SP
Cannot start debugger after Automation Studio crash
If Automation Studio crashes (or is improperly exited) while the debugger is running, then the debugger cannot be restarted after restarting Automation Studio.
The problem is corrected by restarting the target system and restarting the debugger twice.

ID#400222028 : solved problem, known since ARSG4_4.33.9_I04.33, solved since AS4.3.04 SP
Debugging no longer working for target system ARsim with older versions
The Automation Studio debugger no longer works with ARsim-platform target systems and an Automation Runtime version older than 4.33.
An error message is output when starting the debugger.
It is possible to get around this error by opening a source code file for the task to be debugged in the Automation Studio text editor before starting the debugger.

Diagnostics − Logger
ID#400239648 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Exceptions in Logger when toggling online connections.

ID#400290007 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
No description texts for entries in the Logger
No description texts are displayed for certain entries in the Automation Studio Logger (entries of type "EventLog") if the username of the user logged into Windows contains spaces. This error has been corrected.
Workaround: Select a Windows username that does not contain spaces.

Diagnostics − Motion − NC Trace
ID#400151208 : solved problem, known since nicht relevant, solved since AS4.3.07 SP
ARNC0 Trace: Trace data not matching trigger delay
If a negative trigger delay of e.g. 3 seconds is set, the trigger event is only visible in the trace recording at a later time (e.g. 4.2 seconds).

ID#400230905 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Trace: Properties dialog box not displayed
If the properties dialog box for Trace is moved to a second monitor and the monitor is disconnected, then the properties dialog box is no longer displayed.

Diagnostics − Trace
ID#400256237 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP
Error when starting multiple trace recordings
If a second trace is started in Automation Studio Trace in addition to a running trace recording, the first recording may be stopped. This error has been corrected; several parallel trace recordings are possible again.

Diagnostics − Trace 71
ID#400224236 : solved problem, known since AS4.1.13 SP, solved since AS4.3.04 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 AS4.3.05 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.
IO Configuration – CANopen

ID#400215653: solved problem, known since AS4.2.09 SP, solved since AS4.3.08 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 AS4.3.04 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#400273589: solved problem, known since AS4.4.06 UP, solved since AS4.3.09 SP
Default value of property "netX configuration file" empty
If the default value of property "netX configuration file" is restored in the editor, the value of this property remains empty.

ID#400252512: solved problem, known since AS4.3.05 SP, solved since AS4.3.09 SP
I/O configuration of DTM modules lost on copy/paste if properties window open

ID#400252116: solved problem, known since AS4.3.05 SP, solved since AS4.3.08 SP
Group names with DTM devices not copied
If DTM devices are copied and pasted again, the names of the groups in the channel configuration are not copied in their configuration.

ID#400246725: solved problem, known since AS4.2.11 SP, solved since AS4.3.06 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#400242457: solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Possible errors when opening project with DTM devices
If a project with DTM devices is opened that was created with an older version of Automation Studio, errors may occur under certain circumstances.

ID#400230811: solved problem, known since AS4.3.03, solved since AS4.3.05 SP
I/O mappings for the X20IF10E3−1 lost when converting an Automation Studio 3.0.90 project
If a project created with Automation Studio 3.0.90 is opened in Automation Studio 4.3.3 or 4.3.4, then after conversion the I/O channels configured for DTM device X20IF10E3−1 as well as the process variables mapped to these I/O channels are not displayed.

ID#400230459: solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Unable to freeze B&R gateway DTM devices
Versions of B&R gateway DTM devices such as X20AI2438 and X20DS438A cannot be frozen.

ID#400228845: solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Cannot use OCTET as data type in channel configuration of DTM devices
If the channels of a DTM device are configured (e.g. X20IF10D3−1), then data type OCTET cannot be selected and used.

ID# 400181821, 400185441, 400207853, 400218831, 400225815: solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Copy/Paste of DTM modules not working correctly
When copying DTM modules in the hardware structure, the I/O configuration, I/O mapping and some settings on the master are not applied.

ID#400171765: solved problem, known since AS4.1.09 SP, solved since AS4.3.05 SP
Copy/Paste of DTM modules not working correctly
When copying DTM modules in the hardware structure, the I/O configuration, I/O mapping and some settings on the master are not applied.
I/O configuration of DTM modules lost on copy/paste

If DTM modules are added using copy/paste, then the I/O configuration of the copied devices is lost.

ID# 400148885, 400169828 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Copy/Paste of DTM modules not working correctly
When copying DTM modules in the hardware structure, the I/O configuration, I/O mapping and some settings on the master are not applied.

IO Configuration – DTM 3rd party

ID#400242368 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Channels of DTM slave devices not displayed
With slave devices that supply identical names for some channels, it is possible that several channels are not displayed in the I/O mapping.

ID#400236717 : solved problem, known since AS4.3.04 SP, solved since AS4.3.08 SP
HART modules do not work correctly after copy-and-paste
If HART modules are copied and then pasted (X20AI2438, X20AO2438), it can happen that these modules do not function in the correct operating mode.

ID#400215813 : solved problem, known since AS4.2.08 SP, solved since AS4.3.05 SP
Unable to import some DeviceNet EDS files at DTM
Some DeviceNet EDS files cannot be identified as DeviceNet and are therefore not imported.

IO Configuration – Modbus TCP

ID#400270742 : solved problem, known since AS4.7.01, solved since AS4.3.09 SP
Stuck booting when Modbus slave connected to X20IF2181-2
When Modbus slave is connected to X20IF2181-2 the arconfig output at project build is wrong (no slave is detected at master) and booting sticks.

ID#400241654 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Modbus diagnostic channels not displayed
If Modbus communication is enabled on an Ethernet interface for a CPU, the corresponding diagnostic channels are not displayed.

ID#400231481 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Modbus: Automatic calculation of write data not working
If write function blocks are created for the generic Modbus slave, then the automatic calculation of the block size no longer works.

ID#400233492 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Modbus channel configuration not applying data type REAL
If an Automation Studio 3.x project is opened in Automation Studio 4.x, then all channels of the Modbus devices that have data type REAL are changed to data type UDINT.

ID#543375 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Modbus: Automatic calculation of write data not working
If write function blocks are created for the generic Modbus slave, then the automatic calculation of the block size no longer works.

IO Configuration – Profibus

ID# 400055580 : solved problem, known since AS4.3.03, solved since AS4.3.08 SP
Possible problems caused by imported PROFIBUS GSD files
If GSD files are imported as fieldbus devices that use a hex number as text references, no assignment of parameters to associated texts can be made.

Online Compare – Hardware 4.3.4.67

ID#400222776 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Node numbers configured on hardware not taken into account during hardware upload, new numbers assigned
Online Services

ID#400233485 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Improved error message
An error message when transferring the operating system has been improved with regard to understandability.

Online Services – Create/Generate Compact Flash

ID#400225436 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Degradation of offline installation performance

Programming – ANSI C

ID#400260142 : solved problem, known since AS4.3.07 SP, solved since AS4.3.08 SP
Indentation after "for" loops not always working in ANSI C/C++ source files

ID#400234033 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Incorrect tooltip displayed for variable in ANSI C editor if multiple variables declared in one line
If multiple variables are declared in one line and the first variable is a pointer variable, then all other variables are displayed as pointer variables in the tooltip.

ID#400231747 : solved problem, known since AS4.2.10 SP, solved since AS4.3.05 SP
Code-based automatic indentation not working correctly in ANSI C and ANSI C++ after preprocessor directive #if containing defined

ID#400227920 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Faulty window layout in text editor with certain settings

ID#400231204 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Code-based automatic indentation not working correctly in ANSI C and ANSI C++ after "else if"

ID#400232209 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
*** displayed in tooltip for REFERENCE TO variables in the ANSI C text editor

ID#400231177 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Automation Studio crashing in rare cases when opening an ANSI C file

ID#400223287 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 SP
Automation Studio crashing in ANSI C editor if Ctrl+Spacebar pressed multiple times

ID#538040 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 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#400203580 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
Automation Studio crashing without a message when memory for 32-bit applications used up

Programming – ANSI C++

ID#400249861 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
Not all elements of a structure offered in code autocomplete after entering a period in the ANSI C++ editor

ID#400231371 : solved problem, known since AS4.2.09 SP, solved since AS4.3.07 SP
New structure elements not immediately available in SmartEdit selection list

ID#400243761 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Confirmation request when opening empty ox file

ID#400228989 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
No autocomplete elements offered in ANSI C/C++ editor after entering a delimiter after a function block instance

ID#400222314 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
"Go to declaration" SmartEdit function not working in ANSI C++ source code editor
The "Go to declaration" function does not always work in a row after a keyword for access control (public, protected, private). The corresponding entry is missing in the shortcut menu.

ID#40022316 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
Class constructors listed in autocomplete selection list for class instances in ANSI C++ source code editor
The use of a constructor defined in a class with the help of a class instance is incorrect and causes an error message during build.

ID#400222340 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
Data types listed in autocomplete selection list for class instances in ANSI C++ source code editor
The use of a data type defined in a class with the help of a class instance is incorrect and causes an error message during build.

ID#400222341 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
Macros offered in autocomplete selection list for "this" pointer in ANSI C++ source code editor
The use of a macro together with the "this" pointer is invalid and results in an error message on build.

ID#400222371 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
Enumerators listed in autocomplete selection list for class instances in ANSI C++ source code editor
The use of an enumerator defined in a class with the help of a class instance is incorrect and causes an error message during build.

ID#400222319 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
All valid entries not offered in ANSI C++ source text editor in the selection list for code autocomplete

Programming − Automation Basic

ID#612345 : solved problem, known since AS4.2.13 SP, solved since AS4.3.08 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 AS4.3.08 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#400224204 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Implicit instance variables for normal function block calls not added to interface of Automation Basic function block when saving the source code
Because the implicit instance variables for normal function block calls in the interface of the Automation Basic function blocks are missing, error number 1180 is output during build.

Programming − Automation Components Configuration Editor

ID#400217532 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
UserRole system does not allow special characters for usernames.
When using special characters for the name of a UserRole definition, the online compare does not provide any data for this entry.

Programming − Automation Components Configuration Editor 4.3.4.68

ID# 400225357, 400226499 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
PP65 configuration with enabled OPC UA not working
If the OPC UA function is enabled in a PP65 project, then error 6959 occurs when compiling the project.

Programming − CPU Configuration Editor

ID#569445 : solved problem, known since AS4.4.03, solved since AS4.3.05 SP
Value of CPU parameter "Configuration ID" not displayed correctly after renaming the active configuration
If no explicit value has been entered for CPU parameter "Configuration ID" in the active configuration (i.e. the parameter has a calculated default value put together from the project name and name of the active configuration), then the old calculated values (with the old name of the active configuration) is incorrectly displayed after the active configuration is renamed if the CPU configuration was already displayed once before the renaming.

ID#400228534 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
"Find in Files" causes errors 5503 and 5508 in customer project

Programming − Cross Reference

ID#400236433 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 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".

Programming – Data Type Declaration Table Editor

ID#400260291 : solved problem, known since AS4.3.07 SP, solved since AS4.3.08 SP
Automation Studio crashing table-based data type declaration editor during copy/paste
ID# 400221327, 400222097, 400222570, 400224271, 400224529, 400225289 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Moving entries with drag-and-drop not working in the table editor for data type declarations

Programming – FBD

ID#400215614 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
Shortcut keys Ctrl+C, Ctrl+V and Ctrl+X not working in Function Block Diagram editor when editing network jump labels

Programming – Function Table Editor

ID# 400248894, 400249982 : solved problem, known since AS4.3.05 SP, solved since AS4.3.06 SP
Cannot copy parameters of functions, function blocks and structure elements to another file
ID#400229882 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Long wait time when enabling monitor mode if a table editor for declarations is open

Programming – IO Configuration Editor

ID#400235302 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Error selecting value in selection list of X90xxxx module
In property selection lists for an X90 module, after selecting a value an incorrect value is displayed and saved.
ID#400210137 : solved problem, known since AS4.3.03, solved since AS4.3.04 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#400223397 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
I/O mapping not saved corrected if channels with the same name are changed

Programming – LD

ID#400243271 : solved problem, known since AS4.2.11 SP, solved since AS4.3.07 SP
No values displayed in monitor mode of an action created in Ladder Diagram
ID#400254316 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP
Values of individual bits not displayed correctly in synchronous Powerflow mode in the Ladder Diagram editor
If a constant variable is used as a bit offset in the Ladder Diagram editor when accessing an individual bit, the value of this bit is not displayed in synchronous Powerflow mode.
ID#400250785 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
No values displayed in Ladder Diagram editor if the file header contains a block comment and monitor mode in actions is enabled
ID# 400243417, 400253413 : solved problem, known since AS4.3.05 SP, solved since AS4.3.09 SP
Program section erroneously displayed as not being run through when enabling synchronous Powerflow mode
ID#400248315 : solved problem, known since AS4.3.05 SP, solved since AS4.3.06 SP
Replacing an expression in a selected area also replacing expressions outside the area
ID#400243519 : solved problem, known since AS4.2.11 SP, solved since AS4.3.08 SP
Delay of several seconds when exiting input mode in Ladder Diagram editor

This delay occurs if the ladder diagram contains a large number of networks and automatic variable declaration is enabled.

**ID#400241273** : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Autocomplete of structures declared as an array not working in the Ladder Diagram editor for the function block implementation

**ID#400227498** : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 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#400217472** : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 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#400220503** : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP

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

**Programming – LD 72**

**ID#400215375** : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP

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

**Programming – Motion – Errortext Table Editor**

**ID#551620** : solved problem, known since AS4.2.10 SP, solved since AS4.3.04 SP

Error text table: Current NC version not entered in source file on save

**Programming – Motion Components**

**ID#400226958** : solved problem, known since AS4.2.10 SP, solved since AS4.3.04 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#400228778** : new function since AS4.3.04 SP

ACOPOS parameter table: No error message if incorrect decimal point

If a comma is entered instead of a period as the decimal point, an error is not displayed and the value is truncated.

**ID#548270** : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 SP

Support for 8EAC015” interface cards

**Programming – OPC Tag Editor**

**ID# 400236415, 400251221** : solved problem, known since AS4.3.04 SP, solved since AS4.3.08 SP

Possible errors with “Search in files” and OPC tag files

If the “Search in files” function is executed in a configuration with OPC tag files, this can cause errors if monitored OPC tags exist whose structure data type has changed.

**Programming – OPC UA Default View Editor**

**ID#400251788** : solved problem, known since AS4.3.06 SP, solved since AS4.3.07 SP

“Error parsing an OPC UA configuration module” if the time format set in Windows has no “:” set as the delimiter

The time format set in Windows must be HH:mm or HH:mm:ss. Delimiters other than “:” are rejected by Automation Runtime.

**ID#400242404** : solved problem, known since AS4.3.04 UP, solved since AS4.3.06 SP

Unhandled exception when disabling/enabling "Display array elements" if the OPC UA tag is of a directly derived data type

Disabling/Enabling "Display array elements" for a UA tag with a directly derived data type (e.g. arrayDDT in the example below) results in an unhandled exception.

```
teststring :STRING[80];
aarrayDDT :ARRAY[0..5]OF teststring;
```

**ID#400226202** : new function since AS4.3.04 SP
Editor should print line number and position of XML parse errors

ID#543235 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP

No units in Engineering Unit Catalog

If the active configuration in a project is changed, then units are no longer displayed in the Engineering Unit Catalog. They are only displayed again after closing and reopening Automation Studio.

ID#400211074 : solved problem, known since AS4.2.07 SP, solved since AS4.3.04 SP

Poor loading performance and no visible entries when opening UA Default View in projects with huge count of OPC UA tags

Programmung – SFC

ID#400235471 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Setting function block context for diagnostic functionalities not working if the function block instance is an array element

ID#400233349 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Automation Studio crashing on exit if Sequential Function Chart editor opened

ID#400232083 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP

Empty line appended by each step in the program when saving source file in Sequential Function Chart.

ID#400226685 : solved problem, known since AS4.2.10 SP, solved since AS4.3.04 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".

ID#400223870 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 SP

SmartEdit support no longer working for transitions in Sequential Function Chart editor

Programmung – Software Configuration Editor

ID#400238124 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Cannot export texts if software configuration opened and active

In this case, the dialog box for setting the text export is not opened.

ID#400226103 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP

Possible crash when opening software configuration if a project is opened automatically when starting Automation Studio

ID#400220244 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP

Order of objects in software configuration not matching that of the .sw files from the Configuration View when using referenced .sw files

Programming – ST

ID#400255847 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP

Variable value not displayed correctly in tooltip when monitor mode enabled

If a variable is an array and the array elements are structures, then the values displayed in the tooltip are only correct when first displayed. If the mouse pointer is positioned over the variable again, the displayed values are not updated.

ID# 400234603, 400254497, 400253164 : solved problem, known since AS4.2.11 SP, solved since AS4.3.07 SP

Connection to incorrect CPU after configuration change

ID#400248005 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP

Dialog box for variable declaration opened instead of for dialog box for interface declaration when adding function blocks to local functions or function blocks of a program in the text editor

ID# 400248414, 400248564, 400248538, 400248365, 400248319, 400248704 : solved problem, known since AS4.3.05 SP, solved since AS4.3.06 SP

SmartEdit support no longer working for structures with nesting depth greater than 3

ID#400247867 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP

Invalid tooltips displayed in text editor when monitoring function block instances

ID#400239605 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Exception thrown in text editor if code collapsed in CASE block

ID#400236775 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Incorrect character added to start of search term in dialog box "Find in files"

ID#400237627 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Structure elements of base data type offered in SmartEdit selection list in Structured Text editor when entering a period after an invalid structure element

ID#400228926 : solved problem, known since AS4.2.10 SP, solved since AS4.3.04 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#400228629 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Formatting of marked section not working correctly in Structured Text editor
If a marked section contains a CASE statement with ELSE, then formatting after ELSE does not work correctly.

ID#400227958 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Outlining not working correctly inside CASE statement in Structured Text
If ranges or multiple integer values are used in the label of a group of statements, then outlining does not work correctly for the statement group.

ID#400227853 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Autocomplete not working correctly if search dialog box open
If the search dialog box is open, the second autocomplete does not work for nested structures after entering a period. In the second autocomplete instance, the text from the first is overwritten.

ID#400226039 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Automatic indentation not working correctly in Structured Text editor after ELSE in CASE statement

ID#400223818 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Corresponding line in text editor not marked when double−clicking on entry in one of the output windows for general messages, output results or finding in files

ID# 400221937, 400222432, 40022859 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
ANSI C code snippets erroneously added in Structured Text editor

ID#400219013 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP
Characters overwritten in text editor when printing

ID#400219432 : solved problem, known since AS4.2.08 UP, solved since AS4.3.04 SP
Incorrect data type displayed in tooltip in monitor mode

ID#400216543 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 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.

Programming – System Configuration

ID#400265102 : solved problem, known since AS4.3.07 SP, solved since AS4.3.09 SP
Crash when adding another lease configuration.
If the mode is changed to “DHCP server” in the configuration of an Ethernet interface and then another lease configuration is added via the shortcut menu, Automation Studio crashes with an argument exception.

ID#400247801 : solved problem, known since AS4.3.05 UP, solved since AS4.3.08 SP
Not possible to assign PS/2 keyboard .dis file to VNC server on a PP480 terminal

ID#400243724 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Configured channels no longer displayed after reopening the I/O configuration
If the channel configuration of a DTM is changed, the new channel configuration is displayed in the I/O configuration of the netX module. After reopening the I/O configuration, however, the original channels are displayed again.

The problem can be avoided by first selecting the netX module with the left mouse button before opening the I/O configuration (which is done using the shortcut menu).
ID#400238690 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Incorrect function model set for 2003 modules on CANIO bus controller EX470, which results in error 6957 during compilation

ID#400233172 : solved problem, known since AS4.3.04 SP, solved since AS4.3.08 SP
Saving the hardware configuration editor taking a long time

Initial situation:
* The I/O mapping of a DTM hardware module is displayed in the Automation Studio properties window.
* The configuration of the hardware module is opened in an editor window.
* The values of several parameters of the hardware module are changed.
* The editor contents are saved.

Saving takes even longer if more parameters have been modified.

ID#400232227 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
System timer interface modified when adding drive

When adding a drive to a POWERLINK interface, the system timer interface is automatically modified on the POWERLINK interface being used. This should only be performed if the system timer interface still has the default value.

ID#400229747 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
No error message for invalid task class tolerance

If a tolerance is defined for a task class that is not a multiple of the cycle time, then an error message is not output when building SysConf.

Programming – System Designer

ID#400273253 : solved problem, known since AS4.4.xx [FR001041.0], solved since AS4.3.09 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#570245 : solved problem, known since AS4.4.03, solved since AS4.3.05 SP
Primary and secondary (redundant) controllers overlapping after replacing CPU in System Designer with controller redundancy enabled

Programming – Variable Declaration Table Editor

ID#4002392912 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Incorrect scope displayed in title bar of table editor for functions and function block declarations with "Go to declaration"

ID#400237669 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Incorrect scope displayed in title bar of table editor for data type declarations with "Go to declaration"

ID#400228533 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Long wait time with automatic declaration of variables

If a new variable is used in an IEC text editor and automatic variable declaration is enabled, then closing the declaration dialog box can take a long time in large projects that contain OPC UA default view files.

ID#400228532 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Long wait time when opening dialog box for initializing variables

If the dialog box for initializing variables is opened in a table editor for declarations, this can take a long time in large projects that contain OPC UA default view files.

ID#400221145 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Synchronizing with the Project Explorer in the table editors not working if opened with "Goto declaration of"

ID#400221351 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
No longer possible to enable table editor for variable declaration when using SmartEdit selection list

Programming – XML Editor

ID#400250529 : solved problem, known since mappView 5.2.0, solved since AS4.3.07 SP
Comment incorrectly revoked in XML editor

Tools – Import Fieldbus Device

ID#400254875 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP
Re-imported fieldbus devices not applied when project reopened
If an imported fieldbus device is used in a project and a new version of it is imported while the project is open, Automation Studio must be restarted.

ID#400209477 : solved problem, known since AS4.2.07 SP, solved since AS4.3.05 SP
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.

ID#400213882 : solved problem, known since AS4.2.08 SP, solved since AS4.3.05 SP
X20 POWERLINK bus controller not working correctly when added with POWERLINK device description file (XDC, XDD) in Automation Studio

ID#400231138 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Certain PROFIBUS devices causing build error
Build error 6999 is possible on some imported PROFIBUS devices.

ID#400229752 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Slave parameters of PROFIBUS DP devices sometimes not saved
If the configuration of an imported PROFIBUS DP device is opened in its own window, a submodule is selected there in group "Module configuration" and then the editor and saved and closed, then the automatically generated parameters in group "Slave parameters / Parameter data field / Module 1" are not saved. This means that these generated values are no longer displayed when reopening the configuration for the PROFIBUS DP device. If the configuration of the PROFIBUS DP device is made in the properties window, then the automatically generated slave parameters are saved correctly.

ID#400227833 : solved problem, known since AS4.3.03, solved since AS4.3.07 SP
Fieldbus devices re-imported when opening a project
If a project containing previously imported fieldbus devices and their fieldbus description files is opened from a ZIP file, they are re-imported.

ID#400223323 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Exporting iCN device in XDD format generating a file that is not compliant with the EPSG

ID#400223361, 400224484, 400222650, 400224738, 400226053, 400226892, 400228605, 400233288 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Missing mapp Motion resulting in missing channels
If XDD files are imported that support DS402, then some channels are missing in the resulting devices if a version of mapp Motion is not installed.

ID#400218085 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Imported XDD files not evaluated correctly
Importing XDD files that contain a period (.) in parameter names can cause errors in the build.

Tools – Import/Export EPLAN P8
ID#400265132 : solved problem, known since AS4.3.07 SP, solved since AS4.3.09 SP
ECAD export unable to export PLK hubs
A project that contains POWERLINK hub modules cannot be exported. The EPLAN standard exchange format 1.0 does not support hubs. If the export terminates, however, a PV and hardware module lists can also be exchanged.

Tools – Manage 3rd Party Devices
ID#400233103 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Channel configuration of DTM devices not saved
If the configuration of a DTM device is opened in an editor window, then the channels it contains are not saved correctly.

Tools – Technology Guarding
ID#400278697 : solved problem, known since AS4.3.08 SP, solved since AS4.3.09 SP
Automatic license extension not possible if Automation Studio licensing was originally performed in an older version

VisualComponents Editor – VC4
ID#400221280 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
VC4 editor crashing when opening a project containing incorrect entries in data sources
The VC4 editor is crashing when opening a project converted from AS 4.2.8 that contains incorrect entries in the data source files (.dso).
Error during "Import from another project" if referencing non-existant array variables.

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#400257383 : solved problem, known since AS4.3.04 SP, solved since AS4.3.08 SP
If an IP address other than the default IP address (127.0.0.1) is configured for a standard PC, the connection is still established using the default IP address after Automation Studio is closed and restarted.

ID#400250318 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
Recent project list deleted after installing AS 4.3.5 SP

ID# 400213324, 400226752, 400236358, 400241747, 400240596, 400248666, 400248645 : new function since AS4.3.07 SP
Configurable stratum of local clock
The quality of the local clock of an NTP server is freely selectable by configuring the stratum.

ID#400227701 : solved problem, known since AS4.2.11 SP, solved since AS4.3.05 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#400236906 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Keyboard shortcuts Ctrl+Tab and Shift+Ctrl+Tab not working in table declaration editors and text editors

ID#565609 : solved problem, known since R 4.0–13, solved since AS4.3.05 SP
Not possible to export iCN as XDD in APROL edition of Automation Studio

ID# 400232967, 400233934 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
CPU simulation not working for certain target systems if option for saving Automation Runtime support files in project enabled
This affects all target systems with ARM processors. Indications of the problem include ARsim not starting when enabling CPU simulation and also not being able to use system libraries.

ID#400223202 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Automation Studio reporting an error if cable selected in System Designer and menu option "Tools" is opened

ID# 400223399, 400222703 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 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# 400225210, 400230773 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Tab of active editor not displayed
When opening or switching between editors while workbook mode is enabled, it is possible that the tab for the active editor is not displayed in the header area.
To get around the problem, switch to another editor and then back again or close one of the other editors.

ID# 400223958, 400223971 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Automation Studio crashes on start if the Output Results Window is set to "auto hide".

ID# 400222094, 400223816 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Go to next Search Result with F4 is no longer working after opening the editor position by doubleclick.

ID# 400222953, 400222781, 400222944, 400223535 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Automation Studio crashes on start if the Output Results Window is set to "auto hide".

ID#40022411 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
SmartEdit not working correctly if ANSI C header files used as a reference
If a program contains an ANSI C header file as a reference and the referenced file is located at another position within the logical project structure, the automatic declaration of variables in newly added programs does not work.

**Workspace – Configuration View**

ID#400221814 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

Message when opening properties dialog box in the Configuration View

If the VC 4 editor is open, opening a properties dialog box in the Configuration View outputs a message that the action is not possible.

**Workspace – Export/Import**

ID#400217568 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP

Exported binary library receiving incorrect version number

If a source library added to a project incorrectly contains SG<xxx> directories with .br modules that are also write-protected, then these .br modules receive preferential treatment with function "Export as binary library". After the library is reimported into a target project, a different version is displayed for the library than in the source project.

**Workspace – Find/Replace**

ID#400249985 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP

Incorrect search term is searched for

If two search operations in a row take place in a text editor and the second search term is part of the first, the first search term is also searched for during the second search operation.

ID#400222632 : solved problem, known since AS4.2.08 SP, solved since AS4.3.04 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 – Hardware Catalog**

ID#400238154 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

First character entered in properties window of mapp View page content file displayed twice

If a mapp View page content file (.content) is opened with the visual editor, a widget is selected there and the user then switches to the properties window, selects a widget property and enters a character from the keyboard, then the character is displayed twice in the column for the value of the property. All additional characters entered are only displayed once as expected.

ID#400222581 : solved problem, known since mappView 1.03.9000, solved since AS4.3.04 SP

Not possible to enter Polish special characters in Properties window and Toolbox

It is not possible to enter Polish special characters (e.g. ) in some windows of Automation Studio such as the search field for catalogs or the property grid for properties of mapp View widgets.

**Workspace – Install Upgrades**

ID#400227704 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP

ACP10 upgrade offered for installation when opening a project even if already installed

**Workspace – Ladder Catalog**

ID#400251145 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP

Function block MC_BR_JogVelocity contained twice in Ladder Diagram Catalog

ID#400221537 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP

Ladder Diagram Catalog not showing any elements

If a Technology Package is used in a project, then no elements are displayed in the Ladder Diagram Catalog.

**Workspace – Localization**

ID#400240389 : new function since AS4.3.05 SP

No information in transfer window about what the transfer is waiting on

**Workspace – Logical View**

ID#400224042 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 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#400224147 : solved problem, known since AS4.2.09 SP, solved since AS4.3.04 SP
Copy/Paste exception if Windows clipboard blocked

ID#400223150 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Empty Properties window if multiple objects selected
The Properties window is empty if multiple objects are selected in one of the project views.

Workspace – Output Windows
ID#400252447 : solved problem, known since AS4.3.05 SP, solved since AS4.3.07 SP
Cursor moves to output window during build
If the output window is set to "auto-hide", then the cursor is moved there with each new output line during compilation

ID#400229380 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
Fatal errors in Output Window when filtered by "Error" are counted but not displayed.

Workspace – Physical View
ID#400260279 : solved problem, known since AS4.3.06 SP, solved since AS4.3.08 SP
Not possible to enter node number for X67 module if connected to X20BT...

ID#400259343 : solved problem, known since AS4.1.16 SP, solved since AS4.3.08 SP
New module not disabled if replacing disabled X20 module

ID#400251955 : solved problem, known since AS4.3.05 SP, solved since AS4.3.08 SP
New hardware module version not fully recognized until project reopened.
When replacing an ACOPOS hardware module, the drive configuration parameters of an ACOPOS drive are only correctly displayed after the project has been closed and reopened.

ID#400245509 : solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP
Error replacing hardware module
If any hardware module is replaced in an existing project, the model number of the new hardware module is entered in an internal configuration file of the project. As a result, transfer is no longer possible because the required files are looked for in an incorrect subfolder.

ID#400241929 : solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP
Error calculating module address if two redundant rings connected to an APC910 (with two PLK cards)

ID#400234365 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP
Unable to convert AS 3.x project with a single frozen hardware module into two configurations

ID#400227548 : solved problem, known since AS4.2.10 SP, solved since AS4.3.04 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#400225086 : solved problem, known since AS4.3.03, solved since AS4.3.05 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#400222333 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
FTP parameter conversion error on a CPU when switching from AR <4.25 to AR >4.25

Workspace – Physical View 4.3.4.68
ID#400223871 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP
The state of tree view control has been set before the view model loads data to show in physical view.
The state of tree view control has been set before view model has any data to show.
The state for expand / collapsed must be set after the view model has loaded data to show in physical view.
Subslot modules are not correctly included in ring recognition
During changes in ring recognition the subslot modules were no longer included correctly. This has been changed now.

**Workspace – Physical View 4.3.4.67**

ID#400225145: solved problem, known since AS4.2.09 SP, solved since AS4.3.04 SP

- Error to check for error 4817.
  
  To check for error 4817 network interface cards must be ignored.

**Workspace – Print Project**

ID#400221860: solved problem, known since AS4.2.09 SP, solved since AS4.3.04 SP

- Print Project prints cross reference even if it is not selected

ID#400213994: solved problem, known since AS4.2.08 SP, solved since AS4.3.04 SP

- Endless loop when printing HTML files
  
  Printing out HTML files with “Print project” or as an individual printout does not finish.

**Workspace – Project Compare**

ID#576675: solved problem, known since AS4.4.04, solved since AS4.3.05 SP

- Automation Studio crashing when comparing two ANSI C files or two ANSI C++ files

**Workspace – Project Converter**

ID#400231173: solved problem, known since AS4.3.03, solved since AS4.3.05 SP

- Conversion of AS 3.x project containing RTC file as reference not working entirely correctly

ID#400225632: solved problem, known since AS4.1.13 SP, solved since AS4.3.04 SP

- Problems when converting 3.x 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.

**Workspace – Setup**

ID#586190: solved problem, known since AS4.3.04 SP, solved since AS4.3.06 SP

- Onboard I/O from all X90 CPU types not working in I/O Switchboard

ID#400223034: solved problem, known since AS4.3.03, solved since AS4.3.04 SP

- Virus warning on installation
  
  Some virus scanners output a virus warning when installing Automation Studio.

ID#400222170: new function since AS4.3.04 SP

- Installation on Windows Server 2008 R2
  
  Automation Studio can now be installed in Windows Server 2008 R2.

**Workspace – Startpage**

ID#400241232: solved problem, known since AS4.3.04 SP, solved since AS4.3.05 SP

- Keyboard shortcut ALT+F4 no longer executed if focus on start page

**Workspace – Textsystem**

ID#400220413: new function since AS4.3.05 SP

- Language information transferred to target system
  
  Information about the languages configured in file “Project.language” are transferred to the target system during a project transfer from now on. As a result, all languages configured in the project as well as their metainformation (language name, language name in English) are also available on the target system.
  
  This applies in AR E4.34 and later.
Crash when editing .tmx files

A crash occurs when opening large .tmx files if the software "DPAgent" is installed on the PC. This software causes an error in the display element used by Automation Studio.

Workspace – Unit System

ID#400263670 : solved problem, known since AS4.4.04, solved since AS4.3.08 SP

Project compiled incorrectly if identical unit ID and namespace in different .unit files

If units with the same unit ID / namespace are defined in different .unit files, the project will not be compiled correctly. The compilation process does not return an error in the output window, however. An error may occur when creating the transfer list.

ID#400248910 : solved problem, known since AS4.3.04 UP, solved since AS4.3.07 SP

Some references of user–defined units not working

If a reference to another unit is made for a user–defined unit, it may not be possible to convert between these two units. For example, with references to "Pounds force per square inch". The reason for this is an incorrect sequence of the basic units. This must be in alphabetical order.

ID#400239159 : solved problem, known since AS4.3.03, solved since AS4.3.05 SP

UnitSystem: Incorrect multiplier when referencing

When referencing (also with lower–level references) units that have a multiplier in the denominator, it is used as a multiplier and not as a dividend.

ID#400228445 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP

Unit system: Valid reference reported as circular reference

When referencing multiple units (e.g. pound–force per square inch), the compiler reported a circular reference.

ID#400223178 : solved problem, known since AS4.3.03, solved since AS4.3.04 SP

Unit system: Reference to dimensionless value not working

User–created units cannot reference dimensionless values (e.g. percent). Converting the user–created unit to a dimensionless value is not possible.