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B&R Revision Information (05.11.2019) Automation Studio 4.7.2

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400273360 Problem AS4.7.01 AS4.4.06 UP Exception after starting network analysis
400272320 Problem AS4.7.01 AS4.4.06 UP Configuration objects displayed in different order after executing a build if the software
400273629 Problem AS4.7.01 AS4.4.06 UP SDM running and accessible on terminal device even if disabled in the configuration
400275133 Problem AS4.7.01 AS4.4.06 SP Library rebuilt on every build
400277364 Problem AS4.7.01 AS4.4.06 SP Time zone change causing rebuild
400274014 Problem AS4.7.01 AS4.4.06 SP Corrected sporadic build error 9499
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Requests and problems by product/component

1A4300.02 Automation Studio 4.x

Build

ID#400295701 : solved problem, known since AS4.3.09 SP, solved since AS4.7.02

Insufficient description of cause in error message 9096
Error message 9096 does not adequately describe the cause of the error. In the event of invalid memory configuration of application modules, the application module involved is not referenced.
With this error correction, a new error text is output that indicates the application module in which the memory configuration should be carried out.

ID#400297069 : solved problem, known since AS4.6.02, solved since AS4.7.02

Cannot use constant variables from libraries for initialization in other libraries
If constant variables from libraries are used for initialization in other libraries, error 9074 "... not declared" is output by mistake.
This error correction corrects the error in the visibility of constant library variables.

ID#400295114 : solved problem, known since AS4.6.02, solved since AS4.7.02

Prior performance optimization causes parse errors with some characters
Due to prior performance optimization some characters leads to wrong parse errors. This leads to wrong build errors and some files could not be opened with the table editor.

ID#400288855 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02

Warnings regarding mapp components when compiling project

ID#400291932 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02

Build reported as successfully completed even though it was not executed due to an error in the pre−build event

ID#400291926 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02

Invalid include statement not reported as error

ID#400287937 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02

Error message not clear if BR.AS.Build.exe received non−existent configuration

ID#400288609 : solved problem, known since AS4.3.08 SP, solved since AS4.7.01

At Clean configuration / rebuild the whole Temp/Transfer folder is deleted.

ID#400274617 : solved problem, known since AS4.4.03, solved since AS4.7.02

Linked declaration files resulting in multiple declarations

Sporadic Automation Studio crash if the VC4 editor is opened as part of an Automation Studio project
If declaration files are linked in the logical project view, this may lead to multiple declarations. With this error handling, the user is informed of the multiple declaration during build.

ID#400289276 : solved problem, known since AS4.5.03 SP, solved since AS4.7.01
Version of user library not taken into account correctly during build

ID#400286417 : solved problem, known since AS4.5.02, solved since AS4.7.01
Creation of Runtime Utility Center package not working for ARM CPUs with simulation enabled

ID#400267840 : solved problem, known since AS4.5.03 SP, solved since AS4.7.01
Warning 9555 is reported if Acp10Man < 3.0.0 is used.

ID#400274719 : solved problem, known since AS4.5.02, solved since AS4.7.01
Crash during build
If the logical object of a deployed task doesn’t exist, an exception occurs.

ID#400274719 : solved problem, known since AS4.5.02, solved since AS4.7.01
Crash during build

ID#400278256 : solved problem, known since AS4.5.02, solved since AS4.7.01
Error 9499 is reported in a build with big projects.

ID#400274384 : solved problem, known since AS4.3.04 UP, solved since AS4.7.01
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#400276959 : solved problem, known since AS4.5.02, solved since AS4.7.01
Problem with constants of old libraries with ANSI C data objects
Old libraries that use macro "_IEC_CONST" in the header file (e.g. VISAPI) and the default include mechanism in ANSI C data objects cause the values of the constants of these libraries to be stored in the data object.

ID#400275658 : solved problem, known since AS4.5.02, solved since AS4.7.01
Sporadically not all build processes are terminated correctly when clicking "Stop build".

ID#400277335 : solved problem, known since AS4.5.02, solved since AS4.7.01
Make variables in additional build options are not replaced with their corresponding value.

ID#400275133 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Library rebuilt on every build

ID#400277364 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Time zone change causing rebuild

ID#400276000 : solved problem, known since AS4.5.02, solved since AS4.7.01
A build error is reported, if all source files of a program are located within a subfolder.

ID#400245190 : solved problem, known since AS4.5.02, solved since AS4.7.01
Communication between VxWorks and iCN not working if manual I/O offset disabled

ID#4002741014 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Corrected sporadic build error 9499

ID#400243932 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
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 − C Compiler GCC 4.1.2

ID#400290048 : solved problem, known since AS4.3.08 SP, solved since AS4.7.02
“Step−into” debugger function not working on ARM platforms with GCC 4.1.2
When debugging on ARM platforms with GCC 4.1.2, it can happen that the debugger stops at an unexpected position during “Step into”. If "Step" is repeated, the debugger moves to the expected position. This error has been fixed in the Automation Studio toolchain. For this error correction to take effect, the Automation Studio project must be rebuilt.

### Build – ConfigurationBuilder

- **ID#400273828** : solved problem, known since AS4.4.06 UP, solved since AS4.7.02
  - Cannot disable web server on terminal device
  - This results in port 80 being opened on the terminal device and a security hole being present.

- **ID#400291737** : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
  - Building arConfig module taking a very long time when using CANopen

- **ID#400282503** : solved problem, known since AS4.5.02, solved since AS4.7.01
  - No check for maximum number of POWERLINK RPDOs
  - An error message is not output during build if more RPDOs are necessary than the receiver (SafeLOGIC controller) can process due to the hardware structure.

- **ID#400279299** : solved problem, known since AS4.5.02, solved since AS4.7.01
  - Increasing memory consumption of Automation Studio
  - In projects with many configurations that are connected to each other via POWERLINK ICNs, Modbus TCP or openSAFETY via UDP and that contain many safety hardware modules, the memory used by Automation Studio increases each time the active configuration is changed if the I/O assignment of a SafeLOGIC controller is displayed in each configuration or if SafeDESIGNER is opened for the SafeLOGIC controller. As soon as all available memory is used up (i.e. just over 1 GB), Automation Studio enters an unstable state.

- **ID#400270929** : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
  - Not recognized if no slave configuration is entered
  - Automation Studio does not output an error if the name of the slave configuration is missing in openSAFETY over Modbus TCP.

- **ID#400270929** : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
  - Not recognized if no remote station is entered for the openSAFETY over UDP Tunnel
  - Automation Studio does not output an error if the configuration name of the remote station is missing in the openSAFETY over UDP Tunnel.

- **ID#400274358** : solved problem, known since AS4.4.04, solved since AS4.7.01
  - Error 6999 output by ConfigurationBuilder without additional information

- **ID#400273141** : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
  - Plug-in module 8AC114.60−2 not handled correctly by function block DiagGetStrInfo of library AslIODiag
  - If attempting to read the hardware module name of plug-in card 8AC114.60−2 using function block DiagGetStrInfo of library AslIODiag, an empty string is returned instead of the actual name.

- **ID#400256913** : solved problem, known since ARSG4_4.44.6_F04.44, solved since AS4.7.01
  - No channels displayed in System Diagnostic Manager on "X20BC0083". If if module configured as additionally supported hardware

- **ID#400274315** : solved problem, known since AS4.4.06 UP, solved since AS4.7.01
  - "AR configuration module as a simple data object" does not work if module path contains make variables.

- **ID#400272590** : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
  - When using OSAFT to connect SAFE modules in differen configurations th BUILD might abort in some cases

### Build – Fieldbus

- **ID#400278625** : solved problem, known since AS4.5.02, solved since AS4.7.01
  - CANopen Fieldbus Builder creating invalid binary file if all PDOs are enabled

- **ID#400278625** : solved problem, known since AS4.5.02, solved since AS4.7.01
  - CANopen Fieldbus Builder creating COB IDs with an incorrect node

- **ID#400249030** : solved problem, known since AS4.4.05 SP, solved since AS4.7.01
  - Entries for X20CS modules missing in generated device description files in a POWERLINK master project

### Build – Fieldbus 40

- **ID#400294787** : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
  - Fieldbus configurator generating invalid configuration files when using the ACOPOSInverter P66
Build – FinalizeBuild
ID#400272095 : solved problem, known since AS4.3.08 SP, solved since AS4.7.01
No check as to whether BR modules with the same name exist in different files in an Automation Studio project

Build – IECCompiler
ID#400293188 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Incorrect positioning when double-clicking on error message in the Ladder Diagram editor
If a ladder diagram contains address contacts, double-clicking on an error message will in some cases move to an incorrect position.

ID#400296694 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
WSTRING literals handled incorrectly in IEC languages and B&R Automation Basic for certain SG4 target systems (ARM)
If the address of a WSTRING literal is assigned to a dynamic WSTRING variable with keyword ACCESS, the dynamic variable refers to an invalid memory area.

ID#400283663 : solved problem, known since AS4.5.02, solved since AS4.7.01
Error message 1178 output in rare cases if a configuration is recompiled
The error message is output if the declarations of data types and variables are in a specific order and ANSI C and IEC declarations are mixed. In addition, the call sequence of the IEC compiler is also relevant.

ID#400279847 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Compilation of source file aborted without error message
The abort occurs if an action programmed in Sequential Function Chart (SFC) is called in a text-based programming language. The action must also contain action steps, but no action blocks are permitted to be assigned to these action steps.

ID#400277677 : solved problem, known since AS4.5.02, solved since AS4.7.01
Not possible to set breakpoints in Structured Text and B&R Automation Basic
When using GCC version 4.1.2, no breakpoints are displayed in the edge bar for certain SG4 target systems (ARM) in the text editor for Structured Text and B&R Automation Basic.

ID#400270499 : solved problem, known since AS4.4.05 SP, solved since AS4.7.01
Incorrect result returned when assigning negated USINT or UINT variable to a REAL or LREAL variable
After assigning a negated USINT or UINT variable to a REAL or LREAL variable, the values do not match. This problem occurs in Structured Text, Ladder Diagram and B&R Automation Basic.

Build – IECCompiler 137
ID#641545 : new function since AS4.7.01
Error number 1458 output with Boolean action
For a Boolean action, a variable of data type SFCActionType is automatically generated during build. Option –extNameLength limits the length of variable names to 255 characters. The length of variables automatically generated for Boolean actions is always limited to 32 characters, even if option –extNameLength is used.

Build – IOMapBuilder
ID#400274014 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Parsing of meta information in temporary created declaration files is defect
Parsing meta information in automatically created declaration files is defect. This leads to unresolved build dependencies. With this fix all meta information are read correctly.

Build – OPC–UA
ID#400290241 : solved problem, known since AS4.7.01, solved since AS4.7.02
Under special circumstances OpcUaMethods might get invalid authorization properties.
When configuring the authorization properties for a OpcUaMethod to "InheritNone" these settings have no effect, because the OpcUa–Builder is missing the implementation for setting the ACL properties for this method.

ID#400294961 : solved problem, known since AS4.6.02, solved since AS4.7.02
Configured rights are interpreted incorrectly
If "Inherit Read Only" is set in the inheritance hierarchy of rights on a level, the rights of the underlying nodes are not interpreted correctly.

ID#400283127 : solved problem, known since ARSG4_4.45.3_C04.45, solved since AS4.7.02
Structure members of simple types which are part of an array are not recognized as simple types

Invalid strings in EUREn references can cause an exception
When manually entering an invalid string for an EUREn reference the Opcua− Build will cause an exception. This can be reproduced by entering an array Variable with missing closing brace (e.g., arrayVariable[2).

Build – Taskbuilder

ID#400295291 : solved problem, known since AS4.6.02, solved since AS4.7.02
Error in resolving numeric constants in array dimensions
If there are numeric constants with equal name used as array dimensions the values can not be resolved correctly.

ID#400271108 : solved problem, known since AS4.5.02, solved since AS4.7.01
Error creating temporary files
When temporary files are created for the purpose of compressing BR module contents, errors occur sporadically, some of which may be attributed to the "Avira" virus scanner used.
The method for generating these temporary files has been changed. These files are now locked for other users for their entire lifetime.

ID#400283533 : solved problem, known since AS4.5.02, solved since AS4.7.02
Memory bottleneck due to "restricted" declarations
TaskBuilder runs out of memory if many "restricted" declarations are used.

Build – Transfer To Target

ID# 400287430, 400293780 : solved problem, known since AS4.7.01, solved since AS4.7.02
Offline installation to CompactFlash card not working after Windows 10 update
After updating to Windows 10 version 1809, access to the "removable storage device" is denied during offline installation to CompactFlash.
To solve the problem, a PVI version greater than or equal to 4.7.2 must be used.

ID#400297357 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Cannot perform offline installation if simulation is active and the B&R Hypervisor is being used

ID#400296604 : solved problem, known since AS4.6.02, solved since AS4.7.02
RUC not creating empty folders when installing via RUC package
Due to an incorrect path specification, empty folders are not created during an installation via RUC package.
The error correction corrects the incorrect path specification; empty folders are created as expected.

ID#400291642 : solved problem, known since ARSG4_4.52.4_D04.52, solved since AS4.7.02
Cannot create project installation package if B&R Hypervisor is active and at least one terminal device is used

ID#400258549 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Project installation package created with invalid settings

ID#400137419 : new function since AS4.7.01
Possibility of performing transfer without user interaction

Build – VC4

ID#400291812 : solved problem, known since AS4.5.04 SP, solved since AS4.7.02
Touch screen not working when using an PPC2100 with display and added terminal
If terminal hardware is added to an AREmb project with an PPC2100 and a display on the Ethernet interface, the touch screen on the display of the APC no longer works.

ID#400278323 : solved problem, known since AS4.5.02, solved since AS4.7.01
PPC3100 is not supported in the VC4 Builder.

Diagnostics – Analyse Network

ID#400280179 : solved problem, known since AS4.5.02, solved since AS4.7.01
"Null reference exception" when running the Network Analyzer
If parameter “Bus cycle trigger” deviates from setting “Auto”, a “null reference exception” may occur when executing the Network Analyzer.

ID#400258159 : solved problem, known since AS4.3.08 SP, solved since AS4.7.01
Cycle time calculated incorrectly
The cycle time calculation returns an incorrect result.

ID#400273360 : solved problem, known since AS4.4.06 UP, solved since AS4.7.01
Exception after starting network analysis
If a configuration contains multiple ICN modules that refer to the same configuration, an exception occurs when performing the network analysis.

Diagnostics – Analyse Network 138
ID#400278856 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Parameter “Asymmetrical in/out quantity” for X2X interfaces not taken into account in X2X cycle time calculation

Diagnostics – Contextual Watch
ID#400296546 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
No values displayed in Contextual Watch after expanding variables
It can happen that the values of elements are not displayed in the tree view in Contextual Watch after variables have been expanded. Instead, error message “Error: Value is not available” is displayed. This occurs mainly if variables are expanded in quick succession.
This error has been corrected.

ID#400291525 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Incorrect display of std::map elements in Contextual Watch
In Contextual Watch, elements in std::map containers are displayed incorrectly if a pointer is used as the container “key”. In this case, “Unavailable” is displayed instead of the value.
This error has been corrected; the actual values are now displayed.

ID#400298681 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Contextual Watch not displaying values
After enabling Contextual Watch, no values are displayed in some circumstances. Instead, error message “Source code position cannot be watched” is incorrectly displayed.
This error has been corrected.

Diagnostics – Debugger
ID#400299026 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Multiple breakpoints marked as invalid
If a breakpoint is set in a program that is mapped multiple times, these multiple breakpoints are displayed as invalid in the breakpoint window. Despite being displayed in error, it is still possible to work with the affected breakpoint. This error correction ensures that multiple breakpoints are displayed correctly.

ID#400291434 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Incorrect display of empty STL containers in Debugger Watch window
When using empty std::vector containers, display errors occur in the Debugger Watch window. This error correction corrects the display of empty std::vector and std::list containers in the Debugger Watch window.

ID#400290731 : solved problem, known since AS4.6.02, solved since AS4.7.02
Crash when setting and deleting breakpoints cyclically

If breakpoints are cyclically set and removed in Automation Studio while the debugger is running, Automation Studio may crash. This error has been corrected.

ID#400272997 : solved problem, known since AS4.4.05 SP, solved since AS4.7.01
Callstack navigation does not work with GDB 6.3.
By click on a callstack entry AutomationStudio does not point the cursor to the corresponding source line in editor.
With this fix it is possible to navigate to the corresponding source line for each frame in callstack.

ID#400269770 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Since usage of GDB 6.3 some breakpoint information where misinterpret
With this fix GDB 6.3 breakpoint information where read correctly.

Diagnostics – Logger
ID#400293888 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Crash when displaying the Logger
 Automation Studio may crash when displaying Logger entries from a saved file or online target system. This occurs if Logger entries chained over several hundred levels are present in the logbook.

ID#400243932 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Backtrace of unhandled C++ exceptions
 Function exit() in the AS toolchain was implemented to generate a meaningful backtrace in case of unhandled C++ exceptions.

Diagnostics – Profiler
ID#400293439 : solved problem, known since AS4.4.07 SP, solved since AS4.7.02
Corrected calculation of net runtime of user events
Interrupts were not taken into account when calculating the net runtime of user events. The gross and net runtimes of user events were therefore identical although the user event pair was interrupted by an interrupt.

ID#400278155 : solved problem, known since AS4.2.12 SP, solved since AS4.7.01
Improved "Select data object" dialog box
Dialog box "Select data object" in the Profiler displays a list of Profiler data modules on the target system. This list now displays the time the last changes where made to the module after the module name.

Diagnostics – Watch
ID#400286254 : solved problem, known since AS4.4.04, solved since AS4.7.01
Automation Studio crashing when opening Watch window
 Automation Studio may crash when you open the Watch window. This happens when the software configuration contains many modules for the open project and the Watch window is opened again for the same program.

IO Configuration – DTM
ID#400298178 : solved problem, known since AS4.6.02, solved since AS4.7.02
Cannot import devices with very long device names
If a fieldbus description file of a device whose device name exceeds an approximate length of 60–80 characters is imported as DTM, this can result in problems during the import.

ID#400294306 : solved problem, known since AS4.4.07 SP, solved since AS4.7.02
Imported POWERLINK devices not recognized as inverters
If an XDD file is imported that is marked as an inverter according to CiA 402, the resulting device is not recognized as an inverter.

ID#400290571 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Build warnings when renaming DTM modules
If a DTM module is renamed by changing only to uppercase or lowercase, the I/O mapping of the affected module may be lost and cause build warnings.

ID#400284131 : solved problem, known since AS4.4.06 UP, solved since AS4.7.01
Import of DTM devices failing

If a fieldbus description file for EtherCAT or PROFINET devices contains several devices with identical names, this file cannot be imported.

ID#400273589 : solved problem, known since AS4.4.06 UP, solved since AS4.7.01

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.

**IO Configuration – DTM 3rd party**

ID#400251086 : solved problem, known since AS4.3.05 SP, solved since AS4.7.02

Station address 0 not permitted with DTM

Station address 0 is not permitted for slave devices behind a third-party DTM gateway device.

ID#400281318 : solved problem, known since AS4.5.02, solved since AS4.7.01

3rd-Party Device Manager dialog box not displayed correctly

If the 3rd-Party Device Manager dialog box was used on a monitor that is no longer available, this dialog box may not be displayed correctly when reopened.

ID#400283929 : solved problem, known since AS4.5.02, solved since AS4.7.01

DTM device type Information missing in the device information

If DTM devices are imported, the DTM device type information is missing in their description after a DTM catalog update.

ID#400279203 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01

DTM devices with special characters in name causing errors

If projects are opened with DTM devices whose device names also contain special characters such as ".", these devices may not be found.

ID#400273776 : solved problem, known since AS4.4.xx [FR001041.0], solved since AS4.7.01

Delays when opening a project with POWERLINK devices if project opened repeatedly

If projects with POWERLINK devices are opened several times, the implicit import of the POWERLINK devices can lead to delays when the project is opened even though the POWERLINK device is already installed.

ID#400275292 : solved problem, known since AS4.5.02, solved since AS4.7.01

Implicit deletion of additional devices possible when deleting DTM device from the 3rd-party device manager

If a DTM device whose source file contains several DTM devices is deleted from the 3rd-party device manager, these devices are implicitly deleted without the knowledge of the user.

**IO Configuration – Modbus TCP**

ID#400270742 : solved problem, known since AS4.7.01, solved since AS4.7.01

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 stucks.

**IO Configuration – Profibus**

ID#400268131 : solved problem, known since AS4.4.05 SP, solved since AS4.7.01

Empty module list in some GSD files

If a GSD file containing submodules with decimal module identification is imported as a fieldbus device, these submodules are not displayed in the module selection list of the configuration.

**Online Compare – Hardware**

ID# 400285036, 400284644, 400284767 : solved problem, known since AS4.4.06 SP, solved since AS4.7.02

Double-clicking on CPU in online comparison opening the configuration comparison by mistake

**Online Compare – Software**

ID#400277931 : solved problem, known since AS4.3.08 SP, solved since AS4.7.02

Several minutes sometimes necessary to upload data objects in the software configuration editor
Online Settings Dialog

ID#400291634 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
ANSI connections not affected by response timeout setting
For ANSI connections, the fixed value /COMT=1500 is always used for /COMT.

Programming – ANSI C

ID#400290467 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Tab key handled incorrectly in text editor when adding a code snippet
The selected code snippet variable is replaced by a tab instead of selecting the next code snippet variable.

ID#400289429 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Incorrect function definition when using a function block as an input parameter for a function
When a function block is used as an input parameter of a function, a function is generated that does not correspond to the prototype of the function.

ID#400246052 : solved problem, known since AS4.3.xx [FR001029.1], solved since AS4.7.01
Code snippet added instead of tabulator when pressing TAB inside comment or string

ID#400274084 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Double-clicking on a position in the call stack not always positioning to the corresponding position in the text editor

Programming – ANSI C++

ID#640725 : solved problem, known since AS4.5.03 SP, solved since AS4.7.01
Automation Studio crash if monitor mode enabled immediately after opening an ANSI C or ANSI C++ program

ID#638740 : solved problem, known since AS4.5.03 SP, solved since AS4.7.01
Automation Studio crash if editor closed immediately after opening an ANSI C or ANSI C++ program

ID#400273002 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
No entries offered for template classes with SmartEdit in the ANSI C++ editor

ID#400273003 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Constants declared in the namespace not offered for autocomplete in the ANSI C++ editor

ID#400273280 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Operator overloads added incorrectly in ANSI C++ editor

ID#400274213 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
No class members offered in autocomplete in ANSI C++ editor after entering a delimiter

Programming – Automation Components Configuration Editor

ID#400277999 : solved problem, known since mapp Services 5.5.0, solved since AS4.7.01
Missing content name leads to ”Unhandled exception error”
When clicking the dropdown field for content (MpReport->Section: 1->Content: 1) the ”Unhandled exception error” occurs if no content with an identifier (name) exists.

Programming – CPU Configuration Editor

ID#400279884 : new function since AS4.7.01
5ACCIF01.FPSC--000 not working on hypervisor systems with sPC2100 target systems

Programming – IO Configuration Editor

ID#400290782 : solved problem, known since AS4.5.03 SP, solved since AS4.7.01
Entered Ethernet parameters lost if the operating mode was changed immediately beforehand
If the operating mode is changed from POWERLINK V2 to Ethernet in the configuration of an X20 POWERLINK interface (e.g. X20IF1082–2) and immediately afterwards Ethernet parameter ”Set IP address manually” is selected and an ”IP address” and ”Subnet mask” are entered, these parameters are not saved when the configuration is subsequently saved.

Programming – IO Mapping Table Editor

ID#4000300371 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Multiple I/O mappings on the same input channel not stored correctly

ID#400256410 : solved problem, known since AS4.3.06 SP, solved since AS4.7.01
Programming – LD
ID#400293187 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Undefined data type displayed in tooltip for variables in the Ladder Diagram editor for the function block implementation
ID#656055 : solved problem, known since AS4.5.04 SP, solved since AS4.7.02
Keyboard shortcut for “Add network” (ALT+INS) no longer working in Ladder Diagram editor
ID#400274860 : solved problem, known since AS4.3.08 SP, solved since AS4.7.01
Instance names of function blocks not displayed if Powerflow enabled
ID#400274111 : solved problem, known since AS4.3.08 SP, solved since AS4.7.01
Device parameters not displayed correctly in Ladder Diagram editor if they are too long

Programming – Motion – AS Inline Speed Torque Chart
ID#400294258 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Error when opening Speed Torque Chart in the output window
If the Speed Torque Chart is opened for a motor with less than three letters, an error occurs.
ID#400285816 : solved problem, known since AS4.5.02, solved since AS4.7.01
Possible to enter DC bus voltage for ACOPOS drive in the Speed Torque Chart editor

Programming – OPC UA Default View Editor
ID#400289736 : solved problem, known since AS4.5.02, solved since AS4.7.02
AS crashing when trying to rename a variable that no longer exists
AS crashes when trying to rename a variable marked as non-existent in the OPC UA default view.
ID#400289160 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
Input of some rights not possible with multiple selected UA variables
ID#400283165 : solved problem, known since mappView 5.6.0, solved since AS4.7.01
All elements of structure offered for selection in variable selection dialog box of mappView even if they have not been enabled in the UA default view
ID#400286550 : solved problem, known since AS4.5.03 SP, solved since AS4.7.01
role configuration will not be deleted correctly
ID#400279110 : solved problem, known since AS4.4.06 UP, solved since AS4.7.01
MappView doesn’t get for this case that the variable is an array
MappView doesn’t get for this case that the variable is an array. The solution of this problem is that mappView get always whether the variable is an array, independent of EnableArrayElements property
ID#400275086 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
When converting from file format 3 to file format 4 some rights are not transferred correctly.
ID# 400252149, 400256319 : solved problem, known since AS4.3.05 SP, solved since AS4.7.02
Copy/paste of value of a property is not possible via keyboard shortcut, e.g. “Strg+C” and “Strg+P”.

Programming – Software Configuration Editor
ID#400273200 : solved problem, known since AS4.4.06 UP, solved since AS4.7.01
Configuration objects displayed in different order after executing a build if the software configuration contains unsaved changes

Programming – ST
ID#400294699 : solved problem, known since AS4.4.07 SP, solved since AS4.7.02
Exception thrown in Sequential Function Chart editor when opening a step with monitor mode enabled
ID#400295642 : solved problem, known since AS4.6.02, solved since AS4.7.02
Navigation to incorrect parameter in some cases when using “Go to declaration” in a library on a parameter in a .st or .ab action
If identical named parameters of functions and function blocks are declared in different libraries, it is possible that navigation takes place to an incorrect parameter when using “Go to declaration” in a .st or .ab action in a library on a parameter.
ID#400274489 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
Text editor displaying incorrect tooltip in function blocks when debugger hits breakpoint
Incorrect function block instance set in text editors in monitor mode when using "Go to implementation"

Automatic variable declaration in ST programs offering lowercase keywords

Incorrect indexes displayed in the text editor in monitor mode when displaying the values of an array in the tooltip if the indexes do not begin with 0

Error message when saving CPU configuration with enabled Hypervisor

Initial situation:
1. CPU with Automation Runtime version A4.61 or later
2. B&R Hypervisor is enabled.
3. At least one shared memory partition is configured within group "B&R Hypervisor configuration" in the advanced CPU settings.

If the CPU configuration is opened as an editor window, the value of a property is changed and the editor is saved, then an exception occurs and is displayed in the output window.

Parameters lost when replacing an ACOPOS P3 2-axis module with a 1-axis module

Value of another parameter displayed incorrectly under certain circumstances when saving the hardware configuration

If a configuration of a hardware module contains parameters whose IDs are not unique across the entire hardware module, then changing one of these parameters and subsequently saving the hardware configuration will result in this value being displayed for the first, other parameter with the same ID even though it was not changed. After closing and reopening the hardware configuration, however, the correct value is displayed again.

This error can occur if settings for the second channel are changed in the configuration of an ACOPOS P3, for example. The changed values are then mistakenly also displayed for the first channel.

Deleting an axis feature reference not working

Deleting an axis feature reference from a drive configuration has no effect. The reference is entered again after reopening the configuration editor.

Image of current hardware configuration saved when opening System Designer

The image of the current hardware configuration is only permitted to be rebuilt when saving of closing System Designer if changes are made.

Automation Studio crashing when double-clicking on a search result

If a hardware module is deleted in the Physical View while System Designer is closed and then this module is searched for using "Search in files", it is still found in the source file of System Designer. Double-clicking on this search result causes Automation Studio to crash.

"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.

First Unicode character entered in table displayed incorrectly
If trying to edit in a table or in a tree by typing a character directly on the keyboard (without pressing the <Space> key or <F2> or clicking in the already selected cell with the mouse), the first character will not be displayed correctly if it is a Unicode character (e.g. in Cyrillic font).

**Tools – Import Fieldbus Device**

ID#400281362 : solved problem, known since AS4.5.02, solved since AS4.7.01

Parameter values of imported CANopen DCF files not read correctly

If a DCF file containing object values that deviate from default values is imported, these values are not read in.

**Tools – Manage 3rd Party Devices**

ID#400270290 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01

Possible duplicates from frozen DTM modules

If DTM modules are frozen, it is possible that these modules appear 2x in the Hardware Catalog and 3rd-party device manager.

**Tools – Technology Guarding**

ID#400278697 : solved problem, known since AS4.3.08 SP, solved since AS4.7.01

Automatic license extension not possible if Automation Studio licensing was originally performed in an older version

**Tools – Technology Guarding**

**Visual Components Editor – VC4**

ID# 400299054, 400300041, 400301997 : solved problem, known since AS4.6.02, solved since AS4.7.02

No longer possible to edit drop-down box in the table

Error description:

Values from selection lists (e.g. UnitGroup) can no longer be edited in the table views.

The selection list does not appear under the Edit field. If an entry is selected from the selection list, it is not applied.

Error correction:

Installing a new Visual Components version.

Workaround:

Use Edit in the Properties window.

ID#400284151 : solved problem, known since AS4.3.08 SP, solved since AS4.7.01

No search results found in Visual Components files if search expression contains square bracket

A search in files will not find results in .vc files if a square bracket is included in the search expression.

ID# 400263449, 400262721, 400264530, 400265664, 400265670, 400263942, 400267174, 400258318, 400267048, 400259911, 400268663, 400269318, 400271084, 400270070, 400270231, 400271736, 400272212, 400272273, 400267192, 400272908, 400274385, 400274852, 400273262, 400275998, 400276291, 400275392, 400276416, 400279903, 400281557, 400277156, 400282868 : solved problem, known since AS4.2.12 SP, solved since AS4.7.01

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

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

The problem occurs with Windows 10 version 1803 or later.

**Workspace – Configuration View**

ID#400278957 : solved problem, known since AS4.5.02, solved since AS4.7.01

Cannot enter description directly for configuration files that are not permitted to be renamed

ID#400279294 : solved problem, known since AS4.5.02, solved since AS4.7.01

Performance problem with safety projects

Possible performance problems in projects with many configurations that communicate via cross-connections

ID#400277952 : solved problem, known since AS4.5.02, solved since AS4.7.01

"Replace all" not working for collapsed nodes in the configuration of automation components

If trying to replace several texts at once in the configuration of an automation component (mapp configuration), this does not work for parameters whose group nodes are collapsed.

**Workspace – Export/Import**

ID#400279030 : solved problem, known since AS4.2.12 SP, solved since AS4.7.01

Objects imported twice

If a ZIP archive created with AS3.0.90 is imported into AS4.x, some objects are imported twice. This can also occur with externally created ZIP archives.
Workspace – Find/Replace
ID#400288634 : solved problem, known since AS4.5.02, solved since AS4.7.02
  "Replace in files" not including all source files
  "Replace in files" does not include the data settings in the hardware configuration file and Technology Package configuration files.

Workspace – Ladder Catalog
ID#637795 : solved problem, known since AS4.7.01, solved since AS4.7.01
  Local entry not displayed in Ladder Diagram Catalog if the local function or function block has the same name as a global function or function block

Workspace – Localization
ID#400284617 : solved problem, known since AS4.7.01, solved since AS4.7.01
  Improved button texts in output window
  The labeling of the buttons in the output window (e.g. "5 errors") has been improved.

Workspace – Output Windows
ID#400284617 : solved problem, known since AS4.5.02, solved since AS4.7.01
  Improved button texts in output window
  The labeling of the buttons in the output window (e.g. "5 errors") has been improved.

Workspace – Physical View
ID#400289434 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
  Change in AR version from > AR 4.25 to < 4.25 results in adjusted FTP parameters in inactive configurations
ID#400295131 : solved problem, known since AS4.5.03 SP, solved since AS4.7.02
  Not possible to operate X20IF10D1−1 simultaneously with X20IF... in an X20 Compact CPU
ID#400285076 : solved problem, known since AS4.5.02, solved since AS4.7.01
  AS only reporting possible version mismatch for the first file if several hardware files used in a project
ID#400276414 : solved problem, known since AS4.4.06 SP, solved since AS4.7.01
  Physical view updated incorrectly
  If a parameter in the configuration of a hardware module is changed that happens to have the same ID as a column in the Physical View, the value in this column is incorrectly updated.
  An example of this is parameter "Position" of an ACOPOS P3.
ID#400266941 : solved problem, known since AS4.3.07 SP, solved since AS4.7.01
  AS crash when trying to connect a X20HB8815 to a ModbusTcp_any
ID#400261136 : solved problem, known since AS4.4.04, solved since AS4.7.01
  Name of virtual module X1 changed to X1a when replacing an X90 CPU with another X90 CPU

Workspace – Project Compare
ID#633585 : solved problem, known since AS4.7.01, solved since AS4.7.01
  Source file comparison not working on the target system
  If a project contains a reference to a package that does not exist and no files necessary for building the project are entered in this package, the project can be transferred to the target system. The source file comparison on the target system does not work in this case. The following message is output: "Source files comparison on target not possible. Compare data were manipulated."

Workspace – Setup
ID#400269180 : solved problem, known since AS4.4.05 SP, solved since AS4.7.01
  Crash when dragging and dropping invalid AS project file to AS icon
  If you drag and drop an invalid Automation Studio project file (e.g. TXT file) onto the Automation Studio icon on the Windows desktop, Automation Studio crashes.

Workspace – Textsystem
ID#400270167 : solved problem, known since AS4.4.05 SP, solved since AS4.7.01
Import of text files not possible if project contains referenced text files

If there is a TMX file in the opened Automation Studio project and a referenced file that refers to this file, an unjustified error message is generated when importing texts. This error message has been removed.

The referenced file can be deleted before the import as a workaround.