

B&R Revision Information
Automation Studio 3.0.90.33 SP15
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Requests and problems by version

ID	valuation	solved since	known since	Description
400156805 , 400168277	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	Error checking data types on SG3 target systems
400154497 , 400156805 , 400161543 , 400161768 , 400162429 , 400162700	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	Error due to build option "-limit1"
400162260	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	Multiple AS instances started when installing a service pack together with hardware upgrades
400161782	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	VC3 error message "Alarm bit field variable not defined for alarm group 'xxx'" output although this is configured
400165078	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	VC4 StatusDatapoint not correctly saved and deleted
400163546	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	Automation Studio crash when importing an ACOPOS drive
400160035	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	8BVS2SAFE1-1 not frozen when adding ACOPOS multi power inverter with SafeMC if other frozen 8BVS2SAFE1-1 devices in the same configuration
400169592	Problem	V3.00.90.33 SP0x	V3.00.90.32 SP0x	Converting projects from AS 2.7 to AS 3.x not completing
400141340	Problem	V3.00.90.33 SP0x	V3.00.90.30 SP0x	POWERLINK: Switch to Basic Ethernet of ICN at fail of MN
400122399	Problem	V3.00.90.33 SP0x	V3.00.90.27 SP0x	Error message when setting breakpoints in IEC actions
400117318	Problem	V3.00.90.33 SP0x	V3.00.90.27 SP0x	Operating system deleted when updating MemCard
400170221	Problem	V3.00.90.33 SP0x	AS4.2.03	Arrays shown as "Local" in tooltip in monitor mode
400154448	Problem	V3.00.90.33 SP0x	AS3.0.90 SP01	VNC viewer: Support for WQVGA (480 x 272) and WSVGA (1024 x 600) resolutions for the Power Panel T-Series.
400149860	Problem	V3.00.90.32 SP0x	V3.00.90.31 SP0x	Function block incorrectly displayed in Ladder Diagram editor
400150365	Problem	V3.00.90.32 SP0x	V3.00.90.30 SP0x	Confusing warning when comparing constant values
400145057	Problem	V3.00.90.32 SP0x	V3.00.90.30 SP0x	Possible to open AS 4.x projects with AS 3.x
400140914	Problem	V3.00.90.32 SP0x	V3.00.90.29 SP0x	Setting breakpoints in code segments used in multiple places
400135207	Problem	V3.00.90.32 SP0x	V3.00.90.29 SP0x	Not able to change tolerance of task classes after automatic rounding
400126188 , 400126188	Problem	V3.00.90.32 SP0x	V3.00.90.28 SP0x	Error setting breakpoints in "Actions"
400128130	Problem	V3.00.90.32 SP0x	V3.00.90.27 SP0x	Program crash during incremental build
400117991	New function	V3.00.90.32 SP0x	V3.00.90.27 SP0x	Project path not checked for valid characters when opening the "CoffeeMachine" sample project
400143645 , 400147936	Problem	V3.00.90.32 SP0x	V3.00.90.27 SP0x	ArConfig.rtc file not updated when changing node number of Windows terminal
400129674	Problem	V3.00.90.32 SP0x	AS4.0.17 SP	Changeover times for standard and daylight savings time incorrect for Melbourne/Australia
400144600	Problem	V3.00.90.32 SP0x	ARSG4_4.02.22_V04.02	Incorrect length calculation with circular references
400141163	Problem	V3.00.90.31 SP0x	V3.00.90.30 SP0x	Error detecting build dependencies
400142151	Problem	V3.00.90.31 SP0x	V3.00.90.30 SP0x	Deleting or renaming a POWERLINK iCN configuration resets the settings of the X2X interface on POWERLINK-X2X bus controllers in the master configuration.
400143184	Problem	V3.00.90.31 SP0x	V3.00.90.30 SP0x	Multiple function block calls for same instance not working in a network
400138129	Problem	V3.00.90.31 SP0x	V3.00.90.29 SP0x	Automation Studio crashing after copying and pasting a certain FBD network
400138191	Problem	V3.00.90.31 SP0x	V3.00.90.29 SP0x	Problem entering data in FBD editor
400141019	New function	V3.00.90.31 SP0x	V3.00.90.29 SP0x	Should be possible to use XML syntax highlighting for GMC CNC files

400137620	Problem	V3.00.90.31 SP0x	V3.00.90.29 SP0x	Hardware version not saved in hardware management source file when adding an ACOPOSmulti mit SafeMC device
400121358	Problem	V3.00.90.31 SP0x	V3.00.90.28 SP0x	Build not working correctly after moving a declaration file
400131168	Problem	V3.00.90.31 SP0x	V3.00.90.28 SP0x	error 8021 "The B&R Module already exists in the system" Module name " :: "
400042449	New function	V3.00.90.31 SP0x	V3.00.80.25	No warning output by Automation Studio when connecting via an incompatible PVI version
400116142 , 400120141 , 400125086	Problem	V3.00.90.30 SP0x	V3.00.90.29 SP0x	POWERLINK node number setting "Get from hardware" not working
400105727 , 400105747	Problem	V3.00.90.30 SP0x	V3.00.90.28 SP0x	Error when selecting function block parameters in an ANSI C library
400129005	Problem	V3.00.90.30 SP0x	V3.00.90.28 SP0x	Crash when shutting down diagnostic tools
400067447	New function	V3.00.90.30 SP0x	V3.00.90.27 SP0x	Default setting *.mch when saving curve data
400117092	Problem	V3.00.90.30 SP0x	V3.00.90.26 SP0x	Function blocks cut off in certain configurations in the Ladder Diagram editor
400130252	New function	V3.00.90.30 SP0x	ARSG4_4.02.20_T04.02	Support for optimizing the latency time for imported POWERLINK devices
400128924	Problem	V3.00.90.29 SP0x	V3.00.90.28 SP0x	Motion upgrades not exported with "Save project as zip"
400123605 , 400125063	Problem	V3.00.90.29 SP0x	V3.00.90.27 SP0x	Declaring arrays of derived data types
400068238	New function	V3.00.90.29 SP0x	V3.00.90.27 SP0x	NC Trace: "Don't ask me again" setting is overwritten by *.mch file
400126057	Problem	V3.00.90.29 SP0x	V3.00.90.27 SP0x	Network command trace: Crash when opening an "old" network command trace
400125153	Problem	V3.00.90.29 SP0x	V3.00.90.27 SP0x	Unable to connect remanent variables in the PV mapping
400106142	Problem	V3.00.90.29 SP0x	V3.00.90.24 SP0x	Installation error after changing the length of a dynamic I/O channel
400111643	Problem	V3.00.90.29 SP0x	V3.00.90.24 SP0x	Debugger reaching breakpoint in incorrect context
367420	New function	V3.00.90.29 SP0x	–	Support for the module 80VD100PD.C188–01
400121333	Problem	V3.00.90.29 SP0x	AS4.0.17 SP	Error message "Error 1140: Data type mismatch: Cannot convert UDINT to SINT"
400123456	Problem	V3.00.90.29 SP0x	AS4.0.16 SP	Error 1140 output if a DIV block follows an ADD block
400115746	Problem	V3.00.90.29 SP0x	AS4.0.14	"Values" settings reset to defaults when loading a .txt file
400126043	Problem	V3.00.90.29 SP0x	ARSG4_4.04.22_V04.04	Program crash when using verification functions CheckRange, CheckSignedSubrange or CheckUnsignedSubrange for VAR_IN_OUT parameters
400085316	Problem	V3.00.90.29 SP0x	AH3.00.90.0019	Wrong help page for network command trace
400119546	Problem	V3.00.90.28 SP0x	V3.00.90.27 SP0x	Project build aborted without error message
400118939 , 400123611	Problem	V3.00.90.28 SP0x	V3.00.90.27 SP0x	IEC compiler freeze on some Ladder Diagram programs
400122559	Problem	V3.00.90.28 SP0x	V3.00.90.27 SP0x	Problem configuring 6 or more DTM interface modules
400112087	Problem	V3.00.90.28 SP0x	V3.00.90.27 SP0x	Changed order of interfaces in the NC configuration
400114265	Problem	V3.00.90.28 SP0x	V3.00.90.27 SP0x	Incorrect length of I/O data points for POWERLINK XDD import
400122484	Problem	V3.00.90.28 SP0x	V3.00.90.27 SP0x	"Save project as .zip" returning errors on manual selection
400114072	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	Constant string lengths are not resolved in data types derived from STRING.
400116380	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	IP address for Modbus TCP slave not entered with SL–SL communication
400109342	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	Modbus TCP not working on POWERLINK interface in DHCP mode
400114180	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	Error in automatic indentation of IF/ELSE constructs in Automation Basic
400115259	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	Cannot select some customized PP65 devices as POWERLINK V2 intelligent controllers
400115617	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	Empty I/O mapping causing problems when saving the Modbus configuration
400120297	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	Automation Studio crash on "Find in files" in Ladder Diagram with empty networks
400114245	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	NC configuration built incorrectly
400117290	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	BNC generation fails when compiling a safety project (or opening SD) that contains additional configurations with at least one referenced hardware configuration
400117514	Problem	V3.00.90.28 SP0x	V3.00.90.26 SP0x	Error calculating the domain gateway module ID if there are at least two SL–to–SL connections to the project SL and an I/O module is deleted/disabled

400111949	Problem	V3.00.90.28 SP0x	V3.00.90.25 SP0x	"Transfer only if not on target" setting ignored for referenced packages
400112924	Problem	V3.00.90.28 SP0x	V3.00.90.25 SP0x	I/O mappings lost when importing hardware modules
400106589 , 400119564	Problem	V3.00.90.28 SP0x	V3.00.90.24 SP0x	Wrong Motorparameters in Automation Studio 3.00xx for Motors 8LSC75.xx0022x000-0, -1
400109072	New function	V3.00.90.28 SP0x	V3.00.90.24 SP0x	When using autocomplete and a filter is specified, the first entry does not appear in the first position.
400105309 , 400106238 , 400107384 , 400108809 , 400108915 , 400111241 , 400111389 , 400112558 , 400113250	New function	V3.00.90.28 SP0x	V3.00.90.23 SP0x	Data sources not being sorted automatically
400098816 , 400119786	New function	V3.00.90.28 SP0x	V3.00.90.22 SP0x	Importing PROFIBUS device descriptions from Revision 5 on
400089445	Problem	V3.00.90.28 SP0x	V3.00.90.21 SP0x	German AS: In the button properties, the same parameter is referred to as both "Ebene" and "Level"
400085958	Problem	V3.00.90.28 SP0x	V3.00.90.20 SP0x	No error message when an output of an EN/ENO block is connected.
400111802	Problem	V3.00.90.28 SP0x	nicht relevant	CNC Trace not starting on certain trigger conditions
400110675	Problem	V3.00.90.28 SP0x	ARSG4_3.08.22_V03.08	Invalid task class priorities sometimes generated when building the system configuration
400104475	Problem	V3.00.90.28 SP0x	–	System exception when calling a function in an action
400118478	Problem	V3.00.90.27 SP0x	V3.00.90.27 SP0x	VC3 VA_Setup failure when using the VCSrSht library
400113395	Problem	V3.00.90.27 SP0x	V3.00.90.26 SP0x	Error in automatic indentation of IF/ELSE constructs in Automation Basic
400111141	Problem	V3.00.90.27 SP0x	V3.00.90.26 SP0x	Faulty code for IF statement in Automation Basic
400114073	Problem	V3.00.90.27 SP0x	V3.00.90.26 SP0x	Automation Studio crashes without an error message if an FBD function block is opened several times from a program in monitor mode.
400115622	Problem	V3.00.90.27 SP0x	V3.00.90.26 SP0x	The last line of a text-based SFC subroutine is not printed.
400114582	Problem	V3.00.90.27 SP0x	V3.00.90.26 SP0x	If configurations are referenced, BCN generation doesn't work with iCN connections.
400114092	Problem	V3.00.90.27 SP0x	V3.00.90.25 SP0x	External build using a UNC path causes errors
400111907 , 400110988	Problem	V3.00.90.27 SP0x	V3.00.90.25 SP0x	"Build cross references" function doesn't work with DTM devices.
400111492	Problem	V3.00.90.27 SP0x	V3.00.90.25 SP0x	Coil cannot be set if an EN/ENO block is being used parallel to another condition.
400110320	Problem	V3.00.90.27 SP0x	V3.00.90.24 SP0x	Converting using *_TO_STRING not working correctly when assigning to reference variables
400105576 , 400106679	Problem	V3.00.90.27 SP0x	V3.00.90.24 SP0x	Error when selecting function block parameters in an ANSI C library
400108524	Problem	V3.00.90.27 SP0x	V3.00.90.24 SP0x	See A&P 337880.
400054281 , 400115438	New function	V3.00.90.27 SP0x	V3.00.81.19 SP01	Default case of a switch case construct is executed without a break
400110175	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	Converted project returns "Fatal error 9270"
400092880	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	Error 9237 if project build aborted when generating the I/O mapping
400107150	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	Error setting breakpoints in referenced source code files
400108342	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	For SGC systems, 0 or 1 must be specified instead of FALSE or TRUE when forcing a BOOL data type in the I/O mapping editor.
400107691	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	Cam profile editor: Cannot set the number of points when exporting
400108019 , 400107599 , 400112099	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	Incorrect version number of the VISAPI library displayed in the software configuration
400107127	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	Numeric control: "ProgressiveDirect" enumeration value for UpDownMode does not exist in the German AS version.
400107844	Problem	V3.00.90.26 SP0x	V3.00.90.24 SP0x	Automation Studio may crash as a result of a memory error when exporting large hardware structures.
400102421	Problem	V3.00.90.26 SP0x	V3.00.90.23 SP0x	Constants for limiting arrays
400103606 , 400108864	Problem	V3.00.90.26 SP0x	V3.00.90.23 SP0x	VC3 – QVGA AlphaPad not working
400095773	New function	V3.00.90.26 SP0x	V3.00.90.23 SP0x	Incomplete configuration copy/import with hardware modules in a frozen state
400101659	Problem	V3.00.90.26 SP0x	V3.00.90.23 SP0x	Incorrect version displayed in the module parameter window for frozen hardware modules in some cases

400085139 400108232	Problem	V3.00.90.26 SP0x	V3.00.90.20 SP0x	Error 1140 Data type mismatch: Cannot convert INT to USINT.
400088924 400102837	Problem	V3.00.90.26 SP0x	V3.00.90.20 SP0x	Parameters necessary for OPC not set when opening a 3.0.81 project
400107740	Problem	V3.00.90.26 SP0x	AS4.0.14	Automation Studio crash when "." is entered in an SFC step
400102416 400103257 400102438	Problem	V3.00.90.25 SP0x	V3.00.90.x UP05	Data type filter in the variable selection dialog box for I/O mapping not working in the German version of Automation Studio
400105732	Problem	V3.00.90.25 SP0x	V3.00.90.24 SP0x	OPC configurations rebuilt any time a variable declaration is changed
400106496	Problem	V3.00.90.25 SP0x	V3.00.90.24 SP0x	Error message when opening the online settings editor in projects running on a virtual drive
400106916	Problem	V3.00.90.25 SP0x	V3.00.90.24 SP0x	Automation Runtime <3.00 can no longer be configured in AS 3.0.90.24 SP06 and higher
400103456	Problem	V3.00.90.25 SP0x	V3.00.90.24 SP0x	Long delay times for DTM devices when not able to reach host
400104953	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Boolean data points from imported 3rd-party POWERLINK devices not working
400099713	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	First plug-in module on the CP476 cannot be used if an interface module is inserted in the 7ME020.
400104654	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Error message when using an enumerated type defined in ANSI C
400102630	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Tasks loaded to the controller even though the option "Transfer objects only if relevant changes" is enabled
400102432	New function	V3.00.90.25 SP0x	V3.00.90.23 SP0x	No support for printing out DTMs
400087432	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Newly added variables are not suggested via auto-complete in the open ANSI C editor.
400101416 400101754 400102420 400102735 400103072	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Some channels not connected in the I/O mapping's monitoring mode
400102325	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Entire document not printed in a text-based SFC sub-editor if word wrap enabled
400104585	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Positioning not handled correctly when double-clicking on an error message in the SFC editor
400102328	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Lowercase keywords are offered if declaring variables in text editors when word wrap is disabled.
400105111	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Escape sequences in IEC strings result in incorrect string lengths
400094047	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Parameters for modules that have the "Freeze" flag set are still read from the current hardware description file.
400102706	Problem	V3.00.90.25 SP0x	V3.00.90.23 SP0x	Incorrect program context when opening a C source file in monitor mode
400099222	Problem	V3.00.90.25 SP0x	V3.00.90.22 SP0x	"Out of memory" in projects with large PVs
400095925	Problem	V3.00.90.25 SP0x	V3.00.90.22 SP0x	The menu options and buttons Edit / Undo and Edit / Redo are always enabled.
400106740	Problem	V3.00.90.24 SP0x	V3.00.90.24 SP0x	Not possible to use BOOL array as a permanent variable
400101813	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	Error message in Automation Studio when starting a function block during debugging
400101381 400101619 400104912	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	Incorrect program context when opening a C source file in monitor mode
400100166	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	Missing DPV1 section in CANopen slave configuration for enabling DPV1 communication
400100057 400102326	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	Tooltip in monitor mode is only shown once for a variable.
400100058	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	Tooltip in monitor mode doesn't show any values for REAL and LREAL variables.
400101102 400100382	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	Additionally supported hardware modules using incorrect firmware version
400099124	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	AR upgrade for an X20CPx48x-1 missing when exporting a project as a ZIP file
400091964	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	Crash during build.
400086699	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	With Chinese language settings, the "Active line" is not displayed.
400098447	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	Display error after closing and reopening certain Watch configurations
400097543	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	"Open device configuration" entry missing from Physical View shortcut menu
400099226	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	Ladder Diagram editor crashes when opening a ladder diagram that contains undeclared variables.
400092765	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	Function blocks with EN/ENO and no output are not executed in Ladder Diagram.
400099453	Problem		V3.00.90.22 SP0x	

		V3.00.90.24 SP0x		Automation Studio crashes when the cursor is positioned over a component of a structure variable.
400098869 , 400098867 , 400099399	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	In monitor mode, the tooltip shows 'local' for all variables.
400096259 , 400098354	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	In the text editor, the tooltip for enumerators shows an incorrect value.
400095089	Problem	V3.00.90.24 SP0x	V3.00.90.22 SP0x	Configuration file for safety release not provided in AS SP
400102027	Problem	V3.00.90.24 SP0x	V3.00.90.18	Converting an AS 2.x (SG3) project to AS 3.0.90.18 changes values in acp10cfg – Error 10522.
400094222	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Project that is missing references can't be generated.
400093166	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Changing the version of NC data objects has no effect
400085395	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	OPC build doesn't work for large configurations
400087024	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	GDB freezes at frame info
400089656	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Breakpoint can't be set
400090651 , 400094189	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Structure arrays with a length of one can sometimes not be used in the trace.
400093737	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Display error after closing and reopening certain Watch configurations
400092951	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	newline converted with CR + LF
400092280	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Display error after closing and reopening certain Watch configurations
400094132	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Element selection for FB variables doesn't work any more.
307640	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Automation Studio crashes when false binary literal entered in Automation Basic editor
400092536	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Inserting a function block results in incorrect display.
400095938	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	The task "ncsdcctrl" is inserted although it is not required
400093405	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Error in I/O mapping file after inserting a hardware module
400091517	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Automation Studio crashes when you right-click.
400095655	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Error 9218: PLC <Name> can't be loaded
400094082	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Search results shown twice
400095653	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Undo/Redo data can't be created. Folder or file path too long
400084454	Problem	V3.00.90.23 SP0x	V3.00.90.22 SP0x	Save Project As Zip doesn't work for referenced configuration
400091476	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	Bit addressing with a Windows OPC configuration results in PVI Error 12037
400090638	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	With certain regional and language settings, such as US, there is a syntax error in the Watch.
400088255	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	Monitor mode no longer works via modem connection
400086162	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	Error searching for a string in the ANSI C editor.
400090449	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	Some tooltips in the C editor incorrect.
400087432	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	Newly added variables are not suggested via auto-complete in the open ANSI C editor.
400090175 , 400092078 , 400093272 , 400094590	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	No longer possible to copy/paste individual words using the mouse.
400090416 , 400097092	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	Tooltip shows the wrong array size in the text editors.
400091165 , 400090013 , 400089525 , 400090600 , 400092461 , 400093238	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	No longer possible to copy/paste individual words using the mouse.
400091999 , 400096044	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	An entered initial value is not applied in some cases
400088341	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	Automation Studio crashes when you click on "Declare all variables"
400092033	Problem	V3.00.90.23 SP0x	V3.00.90.21 SP0x	If the I/O mapping file consists of multiple "mapping sections", then only the variables from the first section are added to the BNC file.
400092231	Problem		V3.00.90.21 SP0x	Automation Runtime upgrade for APC810 not saved when you "Save project as ZIP".

		V3.00.90.23 SP0x		
400087683	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	The module context can not be changed under certain circumstances.
400081602 400090374	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	Debugger crashes when a breakpoint is set in an action.
400082345 400087595	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	Display error after closing and reopening certain Watch configurations
400089533	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	To activate the Modbus master, you have to go into the interface settings for the Ethernet port and activate "Use as Modbus master" under "openSafety over TCP/IP", even though no safety communication is taking place.
400089884	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	AS crashes when an array index entered in ANSI C editor
400083301	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	InOut variables with the data type REAL cause problems in the Ladder Diagram editor.
400089893	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	Automation Studio crashes when the cursor is positioned over a component of a structure variable.
400084375	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	Line coverage in monitor mode stops working when a code section is collapsed.
400087164	New function	V3.00.90.23 SP0x	V3.00.90.20 SP0x	After "Save project as" the active configuration is lost
400090628	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	After importing text, the imported file can no longer be deleted
400086303 400090308 400092888 400096732	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	Changes in a search string are not applied in the Find window. The previous search term remains in the text editor.
400089837	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	If multiple external editors are registered for a file, then "Open with..." doesn't work for all files.
400076534	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	The way the scope is changed produces incorrect results
400092727	Problem	V3.00.90.23 SP0x	V3.00.90.20 SP0x	If more than one Modbus slave CPU in the SDG SL configuration is connected to another configuration, then SL to SL communication doesn't work.
400083042	Problem	V3.00.90.23 SP0x	V3.00.90.19 SP0x	Problems when breakpoints set in libraries
400084136 400085113 400096562	Problem	V3.00.90.23 SP0x	V3.00.90.19 SP0x	Cyrillic input (CodePage) no longer possible in text editors.
400078983 400079755	Problem	V3.00.90.23 SP0x	V3.00.90.18	NC Trace: Save/Load dialog box not shown
400078725	Problem	V3.00.90.23 SP0x	V3.00.90.18	Problem can't be reproduced
400089574	Problem	V3.00.90.23 SP0x	–	Wrong data type when rebuilding NC–INIT parameter modules
295585	New function	V3.00.90.23 SP0x	–	Support of 8BAC0125.000–1
400093935	Problem	V3.00.90.23 SP0x	ARSG4_3.09.4_D03.09	When ModbusSlaveCpu and ModbusTcp_any modules are used at the same time, only the number of slaves from the perspective of the ModbusSlaveCpu is considered.
400089766	Problem	V3.00.90.22 SP0x	V3.00.90.21 SP0x	Error 9270 when a decimal is used in an Include directory.
400087376	Problem	V3.00.90.22 SP0x	V3.00.90.21 SP0x	Not possible to move a configuration
400087235	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Project that is missing references can't be generated.
400086497	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Error "no rule to make target" when building a project
400088116	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	If BR modules are entered in Automation Studio with an invalid creation date (e.g. 01.01.2070), BR.AS.FinalizeBuild.exe crashes.
400087398	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	AS crashes when you double click "Add variable" in the Debugger Watch window.
400084892	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Trace configuration saved without asking for confirmation when NC Trace is closed.
400086529	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	ANSI C editor crashes when arrays are declared with a non IEC data type.
400088842	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Incorrect bracketing causes Automation Studio to crash when a SmartEdit function is used.
400086240 400087318	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Autocomplete doesn't work for multidimensional structure elements
400089000	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Declaration files can not be edited under certain circumstances
400085317	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	After "Save project as", the batch settings are lost
400089259	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	A Modbus slave CPU can't be inserted if it is in a configuration with a PP500.
400085459	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	"Resolve references" option doesn't work for files in the Configuration View
400088350	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Project can't be saved as a zip file if there are "missing" *.sw files
400086959 400087046	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	Fatal error 9270 when building a project with OPC objects

400089029 400090898				
400082887	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	After a hybrid library is imported it can't be compiled
400086400	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	Multi-axis trace limited to ten parameters
400079296	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	No PV values are shown when viewing a ladder diagram in monitor mode.
400084315	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	For 80SD* modules, parameter ID 109 is calculated incorrectly when the motor encoder isn't used
400052995	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	If an SFC transition or SFC action uses an IEC textual language, it is not checked out when edited.
400077256	Problem	V3.00.90.22 SP0x	V3.00.90.18	For files under version control, no message is output for a Replace or Replace All.
400075924	Problem	V3.00.90.22 SP0x	V3.00.90.18	In the text editor, the tooltip for enumerators doesn't show a value.
400077859	Problem	V3.00.90.22 SP0x	V3.00.90.18	Constant array limits in type definitions are not resolved correctly.
400086885	Problem	V3.00.90.22 SP0x	V3.00.90.18	The option to transfer only software objects that do not yet exist on the target is not applied to the Runtime Utility Center transfer list.
400077021 400076626 400079800 400085083	New function	V3.00.90.22 SP0x	V3.00.90.18	Find In Files searches files multiple times
400083351	Problem	V3.00.90.22 SP0x	V3.00.81.32 SP0x	Automation Studio crashes in monitor mode when a SFC function block is opened.
400087487	Problem	V3.00.90.22 SP0x	ARSG4_4.01.3_C04.01	CPU load spikes when Automation Studio shows function block tooltips.
400089083	Problem	V3.00.90.22 SP0x	ARSG4_3.00.22_V03.00	Error 30030 for CANopen master with 4 slaves
400084126	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	Derivations of the type "ARRAY OF STRING" cause the build to crash
400075518 400076490 400076839	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	Icons in the toolbar are blurry and illegible
400086630 400086556 400086652	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	The Watch window isn't shown in the programming language editors.
400083771	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	Automation Studio crashes when "END_TYPE" is missing from the type declaration text editor.
400084202	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	Text can no longer be moved using the mouse in the text editor.
400085701	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	When converting from AS 3.00.81 to AS 3.00.90.20 the SDG channels of a SL to SL configuration are reversed, which results in AS and SafeDESIGNER each having a different "ChannelCRC".
400086340	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	Missing object data type crashes the XDD import
400085322	Problem	V3.00.90.21 SP0x	V3.00.90.20 SP0x	AS crashes when you freeze an ACOPOSmulti inverter with SafeMC
400082111	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	ArConfig.br isn't generated when building a configuration with an AC14x as the CPU if AC14x CANIO is disabled on the CAN interface.
400082991	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Incorrect I/O configuration when using a fieldbus CPU with an interface card
400081462	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Watch crashes when a variable with special characteristics is inserted
400081302	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	In ANSI C no index is displayed for array variables.
400081634	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Incorrect syntax coloring in the Automation Basic editor when there's a dollar sign in a character string.
400081914	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Automation Studio crashes when you open a FBD task
400084875	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	German Umlaut characters in I/O mapping description fields are lost during a hardware export.
400084800	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Incorrect length calculation for structures in the OPC tag editor when nested structures are used.
400082717 400083942 400086933	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Array variables with an index > 0 can't be connected to VC3 controls
400083719	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Automation Studio crashes when you copy a step in the SFC Editor
400079527	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Starting and stopping tasks causes the entire right half of the software configuration to refresh when in monitor mode.
400082704	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	When a text is selected, then selecting "Go to Declaration of" from the shortcut menus goes to the selection and not the current position.
400079076 400076197	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Automation Studio stops responding when you open the dialog box for initializing structures
400081440	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	If the Automation Studio Logical View contains more than one visualization application, then searching in files causes Automation Studio to crash.
400086015	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Typo in the info text in the output window. Only affects the German version.

400081014	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Inconsistencies in the hardware configuration can result in modules on the X2X bus being deleted when an X2X module is inserted.
400084460	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Display error in the key mapping for various PP65 devices
400077071	Problem	V3.00.90.21 SP0x	V3.00.90.18	When entering an array index, the LD editor doesn't offer any variables and constants after Ctrl+Space.
400080882	Problem	V3.00.90.21 SP0x	V3.00.90.18	A pointer array with a structure data type is not resolved in the select variable dialog box.
400076586	New function	V3.00.90.21 SP0x	V3.00.90.18	When inserting using CTRL+V (paste) the file is not checked out
400082784	Problem	V3.00.90.21 SP0x	V3.00.90.18	In the maintenance edition of Automation Studio you can create a new project from the start page, although that shouldn't be possible in this edition.
400079554	Problem	V3.00.90.21 SP0x	V3.00.81.31 SP0x	CANopen function "Don't Write All Objects On Download" disabled required objects
400066511	New function	V3.00.90.21 SP0x	V3.00.80.35 SP03	AS is sluggish when online connection has a high latency time.
400080716	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	In some cases, negative string lengths are not prohibited with an error message.
400078616	New function	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Incorrect error position when using typedefs when using IEC declarations in ANSI C
400075865 400077909	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	AsTpu.br can't be compiled in the German version of Automation Studio.
400079304	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Trigger conditions don't work in some circumstances
400083045 400083470	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Watch window doesn't restore the display correctly when reopened
400082095 400082902 400083295	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Automation Studio crashes when you click around in the Monitor Watch.
400081735	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Automation Studio crashes when an invalid value entry in the Monitor Watch is confirmed.
400081705	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Structured variables displayed incorrectly after monitor mode is turned off and back on
400080584	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Automation Studio crashes when the value of a PV is changed via double-click in the Monitor Watch.
400078702 400081376	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	SmartEdit functions don't work when a structure contains a function block. In this case, the function block members aren't listed.
400081302	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	In ANSI C no index is displayed for array variables.
400080997	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Build Error 1179 when you use EDGE in a function block.
400079364	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Comments for derived data types written in the table editor are discarded after saving.
400081296	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Software configuration shows the incorrect version numbers for standard B&R libraries
400078154 400081604	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Tooltip doesn't work in monitor mode for structure variables.
400078470	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Code snippets are not inserted completely in the text editor when using SmartEdit.
400077856	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	In the text editor, pressing the Enter key in multiple-line comments opens the variable declaration.
400082393	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	It is possible to disable the FTP server on the ARSim, even though this option has no meaning in this case.
400081720	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	When creating a CF for a PP100 terminal, the Automation Runtime Version from the main CPU is always used.
400042825	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Configuring the default online connection settings can cause the transfer process to terminate unexpectedly when using remote PVI.
400079565	Problem	V3.00.90.20 SP0x	V3.00.90.19 SP0x	Online connection can't be established when the project name contains a space.
400077472	Problem	V3.00.90.20 SP0x	V3.00.90.18	Configuration builder crashes when building ArConfig if the configuration of a DTM device is in another *.rtc file.
400078014	Problem	V3.00.90.20 SP0x	V3.00.90.18	Problem selecting function block instance for array variables
400077131	Problem	V3.00.90.20 SP0x	V3.00.90.18	Auto Watch is shown in monitor mode even though it was unchecked.
400080562	Problem	V3.00.90.20 SP0x	V3.00.90.18	Trigger conditions don't work in some circumstances
400078123	Problem	V3.00.90.20 SP0x	V3.00.90.18	The values of large structures or a large number of variables are not displayed in the watch window
400079564	Problem	V3.00.90.20 SP0x	V3.00.90.18	Remote port higher than 32767 not permitted
400077174	Problem	V3.00.90.20 SP0x	V3.00.90.18	A term searched for using Ctrl+Shift+F3 is subsequently not found using F3 or Shift+F3.
400077019	Problem	V3.00.90.20 SP0x	V3.00.90.18	CTRL+L doesn't delete a line.
400076086	Problem	V3.00.90.20 SP0x	V3.00.90.18	In the text editor, Ctrl + click doesn't select a word
400076784	Problem	V3.00.90.20 SP0x	V3.00.90.18	Error message in source editor when the function block declaration isn't saved.

400078402	Problem	V3.00.90.20 SP0x	V3.00.90.18	Faulty I/O addressing on SG3 systems
400081245	Problem	V3.00.90.20 SP0x	V3.00.90.18	In the LAD editor, a function block instance stops being executed when a parameter is changed.
400077071	Problem	V3.00.90.20 SP0x	V3.00.90.18	When entering an array index, the LD editor doesn't offer any variables and constants after Ctrl+Space.
400078271	Problem	V3.00.90.20 SP0x	V3.00.90.18	The function parameters of an SFC FB are not offered by SmartEdit in an ST step
400076938	Problem	V3.00.90.20 SP0x	V3.00.90.18	SmartEdit doesn't work for structure elements if the transfer parameter is a structure or FB.
400076577	Problem	V3.00.90.20 SP0x	V3.00.90.18	Incorrect variable declaration in the text editor for a function / function block.
400076636	New function	V3.00.90.20 SP0x	V3.00.90.18	When a character is deleted using the delete key, the file is not checked out
400076586	New function	V3.00.90.20 SP0x	V3.00.90.18	When inserting using CTRL+V (paste) the file is not checked out
400078628 400078741	Problem	V3.00.90.20 SP0x	V3.00.90.18	Variables declared incorrectly as constants in the textual declaration editor.
400076841	Problem	V3.00.90.20 SP0x	V3.00.90.18	XDD file containing object without objFlags attribute may result in invalid import
400077805	New function	V3.00.90.20 SP0x	V3.00.90.18	Option to configure Hilscher GSD files on netX cards
400072301 400072315 400072408 400072380 400077761 400077771 400077777 400077874	Problem	V3.00.90.20 SP0x	V3.00.90.18	AS crashes when the Tools / Upgrades dialog box is opened
400080482	Problem	V3.00.90.20 SP0x	V3.00.90.18	Entering DEL in the search field in the toolbar deletes the selected entry in the workspace.
400079336	Problem	V3.00.90.20 SP0x	V3.00.90.18	"Edit", "Zoom" and "Debug" toolbars flicker
400077168	Problem	V3.00.90.20 SP0x	V3.00.90.18	In an SFC program, "Find in files" doesn't take you to the right position.
268189	Problem	V3.00.90.20 SP0x	V3.00.90.15	The values of large structures or a large number of variables are not displayed in the watch window
400076554	Problem	V3.00.90.20 SP0x	V3.00.81.27 SP0x	Incorrect size calculation for process variables with empty user data type
273110	Problem	V3.00.90.20 SP0x	V3.00.81.18	SmartEdit provides incorrect or insufficient suggestions when using class templates.
277730	New function	V3.00.90.20 SP0x	nicht relevant	Support of 'Multiple Asynchronous Send'
400081370	Problem	V3.00.90.20 SP0x	ARSG4_3.07.8_H03.07	Error 9849 when building ArConfig
400078852	Problem	V3.00.90.19 SP0x	V3.00.90.18	"Error 9290: The command line arguments for the software object "XXXXXXXX" exceed the maximum permitted length of 32.768. "
400075329	Problem	V3.00.90.19 SP0x	V3.00.90.18	Compiler error 4512
400076466	Problem	V3.00.90.19 SP0x	V3.00.90.18	CompactFlash can't be created for APC 6xx series
400077144	Problem	V3.00.90.19 SP0x	V3.00.90.18	Incorrect error message 1068 when using the preprocessor instruction #pragma.
400076591	Problem	V3.00.90.19 SP0x	V3.00.90.18	Error when building a function block programmed in Continuous Function Chart or Function Block Diagram
400076865	Problem	V3.00.90.19 SP0x	V3.00.90.18	On a Win7 64-bit system, BR module files sometimes have a different size than they do on a Windows XP system
400076507 400077909 400075865	Problem	V3.00.90.19 SP0x	V3.00.90.18	Error 6599 when building the AsTpu library
400077013	Problem	V3.00.90.19 SP0x	V3.00.90.18	German AS: NC constant selected in the NC Test is not applied
400075758	Problem	V3.00.90.19 SP0x	V3.00.90.18	Partial structures inserted incorrectly in the watch window
400077029	Problem	V3.00.90.19 SP0x	V3.00.90.18	Incorrect context displayed when the editor is opened in monitor mode
400077027	Problem	V3.00.90.19 SP0x	V3.00.90.18	Crash when writing a USINT array with length 10 in the watch window
400076263 400076429 400076186	Problem	V3.00.90.19 SP0x	V3.00.90.18	Automation Studio freezes when you click in the editor's watch window
400076263 400076429 400076186 400076887 400077246 400077694 400077385 400077801 400077673 400077131	Problem	V3.00.90.19 SP0x	V3.00.90.18	Automation Studio freezes when you click in the monitor watch window.

400078060 400077919 400078586				
400059839	Problem	V3.00.90.19 SP0x	V3.00.90.18	Parameter "/CKDA=1" not saved as extra setting
400076794	Problem	V3.00.90.19 SP0x	V3.00.90.18	Horizontal scrollbar in text editor has fixed width and can't be changed
400076667 400076838	Problem	V3.00.90.19 SP0x	V3.00.90.18	SmartEdit error in ANSI C editor with referenced structure elements.
400076041 400075847	New function	V3.00.90.19 SP0x	V3.00.90.18	Hide tab lines in the text editor.
400076347	Problem	V3.00.90.19 SP0x	V3.00.90.18	Smart Edit is slow in big projects.
400077383	Problem	V3.00.90.19 SP0x	V3.00.90.18	Error message when initializing certain variables in the table editor
400078129	Problem	V3.00.90.19 SP0x	V3.00.90.18	Function block split when a new column is inserted
400076660	Problem	V3.00.90.19 SP0x	V3.00.90.18	Automation Studio crashes when an EN/ENO connection is deleted.
400076935	Problem	V3.00.90.19 SP0x	V3.00.90.18	Displaying the signal flow of an array variable with a variable index doesn't work.
400077336 400077084 400077970 400080265	Problem	V3.00.90.19 SP0x	V3.00.90.18	CNC editor causes an AS error.
400076715	Problem	V3.00.90.19 SP0x	V3.00.90.18	Automation Studio crashes when an SFC FB instance is opened in monitor mode.
400077962	Problem	V3.00.90.19 SP0x	V3.00.90.18	Automation Studio crashes when you try to display a tool tip for a structure variable in monitor mode.
400076083 400077351 400080429	Problem	V3.00.90.19 SP0x	V3.00.90.18	The function "Go to implementation" doesn't work for actions.
400072798	Problem	V3.00.90.19 SP0x	V3.00.90.18	FB instances displayed incorrectly in editor watch.
400076723	Problem	V3.00.90.19 SP0x	V3.00.90.18	Keyword in parentheses not capitalized after end of line
400077526	Problem	V3.00.90.19 SP0x	V3.00.90.18	Ctrl+Space for a structure array inserts the variable with no index
400077469	Problem	V3.00.90.19 SP0x	V3.00.90.18	Automation Studio crashes when you start the "New function or function block" Wizard
400075518 400076490 400076839	Problem	V3.00.90.19 SP0x	V3.00.90.18	Icons in the toolbar are blurry and illegible
400077187	Problem	V3.00.90.19 SP0x	V3.00.90.18	"Save project as Zip" doesn't save VCShared folder when "Resolve references" option is enabled
400076486	Problem	V3.00.90.19 SP0x	V3.00.90.18	Save project as .zip doesn't work
400076693	Problem	V3.00.90.19 SP0x	V3.00.90.18	Lack of exception handling when setting registry entries after registering a component during installation of Automation Studio.
270460	Problem	V3.00.90.19 SP0x	V3.00.90.17	Takes a long time to expand/collapse structure elements in the editor watch using the mouse
400074467	Problem	V3.00.90.19 SP0x	V3.00.90.17	Hardware module name (Equipment ID) can't be configured for fieldbus devices (FDT/DTM)
400074810	Problem	V3.00.90.19 SP0x	V3.00.90.17	Declaration of Alias FB with "Declare all" not always correct.
400073991	Problem	V3.00.90.19 SP0x	V3.00.90.16	Libraries that contain actions are regenerated with every build.
400072880	Problem	V3.00.90.19 SP0x	V3.00.90.15	F1 Help sometimes doesn't work for safety logger modules
400074035	Problem	V3.00.90.19 SP0x	V3.00.81.27 SP0x	Libraries are recompiled when zipped projects are opened.
400072324	Problem	V3.00.90.19 SP0x	V3.00.81.27 SP0x	NodeSwitch channel of CAN interfaces with disabled CAN I/O
400073915	Problem	V3.00.90.19 SP0x	V3.00.81.27 SP0x	Incorrect code generation when mapping an expression to a bit
400071488	Problem	V3.00.90.19 SP0x	V3.00.81.27 SP0x	Profiler: Minimal Net Time und Minimal Gross Time
400071811	Problem	V3.00.90.19 SP0x	V3.00.81.27 SP0x	Incorrect handling of empty block connections in monitor mode
400075151	Problem	V3.00.90.19 SP0x	V3.00.80.37 SP05	Error 4511 while building a task
400150212	Problem	–	V3.00.90.29 SP0x	Incorrect offset for permanent variables
400138687	Problem	–	V3.00.90.29 SP0x	Not able to configure PV memory in the system configuration
376290	Problem	–	V3.00.90.28 SP0x	Known error
379370	Problem	–	V3.00.90.28 SP0x	Froozen usbms module cannot be unfroozen
400123570	Problem	–	V3.00.90.27 SP0x	Recurring problem of insufficient UserRAM+REMMEM memory after changing AR version from Q4.02 to R4.02
400115770	Problem	–	V3.00.90.26 SP0x	Insert menu option not displayed in text editors
400110589	Problem	–	V3.00.90.25 SP0x	Incorrect version number of the VISAPI library displayed in the software configuration

400107599	Problem	–	V3.00.90.24 SP0x	Incorrect version number of the VISAPI library displayed in the software configuration
400112061	Problem	–	V3.00.90.24 SP0x	Support for UXGA resolution
400106581	Problem	–	V3.00.90.24 SP0x	Incorrect version displayed in the module parameter window for frozen hardware modules in some cases
400102707	Problem	–	V3.00.90.23 SP0x	If it is not possible to set breakpoints in programs, this may be caused by debugging explicitly being disabled in the task settings.
400101370	Problem	–	V3.00.90.23 SP0x	Debugger cannot be started if certain files in the project directory are write-protected.
400102438	Problem	–	V3.00.90.23 SP0x	Data type filter in the variable selection dialog box for I/O mapping not working in the German version of Automation Studio
400096914	Problem	–	V3.00.90.23 SP0x	Prespecified size of TmpRAM/OS area setting exceeds the checked maximum size
400103265	Problem	–	V3.00.90.23 SP0x	Unable to open SafeDesigner from AS
400094713	Problem	–	V3.00.90.22 SP0x	Changes made in the "Inverse" or "Simulate" column in the I/O mapping editor are lost if multiple mappings are selected at the same time.
400092113	Problem	–	V3.00.90.21 SP0x	Faulty GSDML files can result in duplicate channel names
400068304 , 400073285 , 400078138 , 400109543	Problem	–	V3.00.81.26 SP0x	When an OPC item in the mapping is deleted or inserted, a comma is inserted after the index in the connection description of array elements.
400061159 , 400102463	Problem	V3.00.90.24 SP0x	V3.00.90.23 SP0x	In case of name changes of Pages, changes were not applied to target.
400088065 , 400101887	Problem	V3.00.90.24 SP0x	V3.00.90.20 SP0x	Correction regarding "AlphaPad QVGA" touch pad in the "BR_Default_QVGA" template
400061159	Problem	V3.00.90.24 SP0x	V3.00.81.23 SP02	In case of name changes of Pages, changes were not applied to target.
400073633 , 400082385	Problem	V3.00.90.24 SP0x	V3.00.80.09	Problem compiling constants in VC3
400079441 , 400078977 , 400094005	New function	V3.00.90.23 SP0x	V3.00.90.18	Icons hard to see
400086602 , 400088464	Problem	V3.00.90.22 SP0x	V3.00.90.20 SP0x	Error when the movement order is changed for a control on a common layer.
400082169	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	AS crashes when a button with a bitmap is copied in the VC3 editor
400075880	Problem	V3.00.90.22 SP0x	V3.00.90.19 SP0x	Fixed a problem when changing of the station number.
400070358 , 400073822	Problem	V3.00.90.22 SP0x	V3.00.81.27 SP0x	In certain projects, enabling cross-compile results in Error 7900.
400061375 , 400078107 , 400083309 , 400087217	Problem	V3.00.90.22 SP0x	V3.00.81.23 SP02	When you copy text from the properties, the whole text is copied instead of just the current selection.
400083435	Problem	V3.00.90.21 SP0x	VC 3.95.3	Automation Studio crashes when you copy languages using Ctrl + C / Ctrl + V
400080527	Problem	V3.00.90.21 SP0x	V3.00.90.19 SP0x	Error converting Visual Components data points from Automation Studio 2.7 to Automation Studio 3.0.90
400075323	Problem	V3.00.90.21 SP0x	V3.00.81.27 SP0x	Retractor character for no reason after refreshing data source.
400081749 , 400081606	Problem	V3.00.90.20 SP0x	VC 3.95.3	Problem with path formatting from structures fixed.
279308	Problem	V3.00.90.20 SP0x	V3.00.90.17	Build time for text groups optimized.
400076137	Problem	V3.00.90.19 SP0x	VC 3.95.0	When importing resources, data points on a layer are not imported.
400067026 , 400071283	Problem	V3.00.90.19 SP0x	V3.00.90.18	VC3 application can't be opened if the user name contains Cyrillic characters
400075792 , 400076222 , 400077748 , 400077891	Problem	V3.00.90.19 SP0x	V3.00.90.18	Visualization objects can't be translated with GCC 2.95.3 if the project path contains a space.
400062342 , 400062713 , 400062960 , 400063419 , 400074584	New function	V3.00.90.19 SP0x	V3.00.90.06	Merging data sources when importing resources
400074452	Problem	V3.00.90.19 SP0x	V3.00.81.27 SP0x	Structure array can't be expanded without refreshing the data source
400091640	Problem	–	V3.00.90.22 SP0x	Connected array items are disconnected when you "Import from another project" if data points are overwritten.
400083307	Problem	V3.00.90.21 SP0x	–	Support for DATE_AND_TIME data type.

Requests and problems by product/component

1A4300.02 Automation Studio 3.x

Build

ID# 400123605, 400125063 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.29 SP0x

Declaring arrays of derived data types

When declaring arrays of derived data types, the size and offset of permanent variables of these types are not calculated correctly. This can lead to inconsistencies in the memory image on the target system.

Affected projects then unjustifiably show build warnings such as:

"Warning 9083: No size inserted for permanent variable "VARIABLENNAME" in offset table."

The error correction solves the problem without having to rebuild affected projects.

ID#400119546 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.28 SP0x

Project build aborted without error message

If the option `-w<Number>` or `-w` is set in the additional settings of a configuration, then the project build is aborted without an error message if a VC version is missing.

ID#400114092 : solved problem, known since V3.00.90.25 SP0x, solved since V3.00.90.27 SP0x

External build using a UNC path causes errors

If a project is built externally (BR.AS.Build.exe), a UNC path (\\<PC_Name>\\.....) cannot be used.

ID#400110175 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

Converted project returns "Fatal error 9270"

If a project contains binary objects, they are entered incorrectly into the software configuration when a project is converted. This results in "Fatal error 9270" when the project is compiled.

ID#400091964 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

Crash during build.

If the file generated by the linker during a build is very large, then BR.AS.Backend.exe crashes.

ID#400094222 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Project that is missing references can't be generated.

If a project contains referenced packets or POUs that point nowhere, then the project can't be generated.
Workaround: Correct the references to destinations that actually exist.

ID#400089766 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.22 SP0x

Error 9270 when a decimal is used in an Include directory.

If the path of an `#include` statement in ANSI C source code contains a decimal point, then Error 9270 is generated during compilation.

ID# 400086959, 400087046, 400089029, 400090898 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

Fatal error 9270 when building a project with OPC objects

Projects containing OPC objects cause Error "9270 no rule to make target" when they are built.

ID#400087235 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Project that is missing references can't be generated.

If a project contains referenced packets or POUs that point nowhere, then the project can't be generated.
Workaround: Correct the references to destinations that actually exist.

ID#400086497 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Error "no rule to make target" when building a project

If a header file from the installation folder is used in a task, the error "no rule to make target" appears when you build a project. It is then no longer possible to build this task normally.
Rebuilding the project works.

ID#400082111 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

ArConfig.br isn't generated when building a configuration with an AC14x as the CPU if AC14x CANIO is disabled on the CAN interface.

If you have a configuration with an AC140 or AC141 as the CPU, and if the CAN has AC14x CANIO disabled, then ArConfig.br is not generated and there are no warnings or errors. As a result, subsequent scrolling doesn't work properly.

ID#400084126 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

Derivations of the type "ARRAY OF STRING" cause the build to crash

If a type declaration file contains data type derivations of the type ARRAY OF STRING, the build will crash during the initial analysis.
There is no known workaround for this error.

ID#400082887 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

After a hybrid library is imported it can't be compiled

When you import a hybrid library with a large number of source files into a project, you get an error when compiling the project.

ID#400080716 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

In some cases, negative string lengths are not prohibited with an error message.

If an IEC string variable declaration is made via ANSI C, this automatically generated declaration is permitted to have negative string lengths. It is also possible to enter negative string lengths textually.

If this variable is only used in C/C++ , then no error message is generated.

This error has been corrected, and an error message is now generated in these cases during a build.

ID#400076554 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.20 SP0x

Incorrect size calculation for process variables with empty user data type

If an empty user data type is created in a project and used with a remanent or permanent process variable, then errors occur when calculating the actual size of the remanent or permanent memory. Among other things, this error affects the PV memory dialog box: an incorrect value of 0 is indicated as the required amount of permanent or remanent memory.

The error always occurs when an empty user data type is used.

Example of an empty user data type with no elements:

```
STRUCT test :
END_STRUCT
```

The error can be avoided by not using empty user data types. There is no good reason to use empty user data types, and they should be avoided in actual program code.

ID#400078852 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

"Error 9290: The command line arguments for the software object "XXXXXXX" exceed the maximum permitted length of 32.768. "

If a program contains a file with many (over 100) actions, then the above error may occur depending on the path of the respective file. After this error is corrected, a program containing files with more than 1 action will always be retranslated during the next build.

ID#400075329 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Compiler error 4512

If an SFC program contains a step implemented in Automation Basic, and if this step contains an all-caps STEP OF ACTION instruction, this will result in Error 4512 during a build.

ID#400074035 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.19 SP0x

Libraries are recompiled when zipped projects are opened.

When using "Save project as zip", if you select "Resolve references", then the libraries in this project will be recompiled and retransferred when the project is built.

ID#400073991 : solved problem, known since V3.00.90.16, solved since V3.00.90.19 SP0x

Libraries that contain actions are regenerated with every build.

Libraries that contain actions are regenerated with every build, even when no changes have been made.

ID#400078616 : new function since V3.00.90.20 SP0x

Incorrect error position when using typedefs when using IEC declarations in ANSI C

If you use typedefs to declare IEC symbols in ANSI C, and if the base data type definition contains an error, the position of the error is not output correctly.

In order to find the declaration error in the ANSI C, it is also possible to temporarily disable the option "Enable declaration of PLC variables (_GLOBAL, _LOCAL)" under <Project><Settings><ANSI C/C++ Compliance> and restart the build. If you do this, the C compiler outputs the error in the correct position.

ID#400150212 : known problem since V3.00.90.29 SP0x

Incorrect offset for permanent variables

A "Build all" for the project must be carried out to prevent the error from recurring.

ID#376290 : known problem since V3.00.90.28 SP0x

Known error

Address calculation under ModbusSlaveCpu/ModbusSlave is incorrect. The classes in AS 3.90 (BR.AS.RuntimeConfigurationEditor) are not suited for cascaded configurations that communicate via Modbus.

This error only occurs in AS 3.90. Starting with AS 4.0 addresses are calculated correctly.

Build – Backend

ID#400075151 : solved problem, known since V3.00.80.37 SP05, solved since V3.00.90.19 SP0x

Error 4511 while building a task

Error 4511 is output for no apparent reason while building a task. In this case the identifier specified in the error message must be renamed.

Build – ConfigurationBuilder

ID#400128130 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.32 SP0x

Program crash during incremental build

The program may crash in certain situations during an incremental build. This error correction prevents this crash.

ID# 400111907, 400110988 : solved problem, known since V3.00.90.25 SP0x, solved since V3.00.90.27 SP0x

"Build cross references" function doesn't work with DTM devices.

The "Build cross references" function doesn't work when using DTM devices.

ID#400110675 : solved problem, known since ARSG4_3.08.22_V03.08, solved since V3.00.90.28 SP0x

Invalid task class priorities sometimes generated when building the system configuration

This behavior causes the target system to boot into diagnostics mode. Error 27352 is entered in the logbook.

ID#400104953 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Boolean data points from imported 3rd-party POWERLINK devices not working

If a POWERLINK device description file (XDD) is imported into Automation Studio where cyclic transfer is enabled for a non-Boolean channel, then this channel's values are not transferred if the channel's individual bits are split up into Boolean data points for the I/O mapping editor.

ID#400099713 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

First plug-in module on the CP476 cannot be used if an interface module is inserted in the 7ME020.

If a System 2003 I/O module is located in slot SS1 of a CP476 and a System 2005 interface module (3IF6*) is plugged into the 7ME020.9 module located in the SY1 slot at the same time, this situation may cause error 9136 (I/O error 2003) when the CPU is booted. Whether this error occurs or not depends on the order in which the System 2003 I/O module and the System 2005 interface module were added to the project. If the interface module is added first, this error does not occur.

ID#400093935 : solved problem, known since ARSG4_3.09.4_D03.09, solved since V3.00.90.23 SP0x

When ModbusSlaveCpu and ModbusTcp_any modules are used at the same time, only the number of slaves from the perspective of the ModbusSlaveCpu is considered.

If you create a project where, in addition to a ModbusSlaveCpu, there is also a ModbusTcp_any device connected to the Ethernet interface, a build will only generate the slaves and the number of Modbus blocks from the perspective of the ModbusSlaveCpu.

ID#400082991 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Incorrect I/O configuration when using a fieldbus CPU with an interface card

When using an SGC fieldbus CPU (e.g. XC0292) with an interface card, the generated I/O configuration is incorrect. Under some circumstances, this can result in the I/O module on station 1 of the X2X BUS not working.

ID#400081370 : solved problem, known since ARSG4_3.07.8_H03.07, solved since V3.00.90.20 SP0x

Error 9849 when building ArConfig

If a POWERLINK station is connected using "Traced Node" mode to a POWERLINK interface set as a "Controlled Node" with operating mode "POWERLINK V1", then building ArConfig in Automation Runtime Version < A3.08, Error 9849 is generated. However, this error message would only be correct under operating mode "POWERLINK V2".

ID#400077472 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Configuration builder crashes when building ArConfig if the configuration of a DTM device is in another *.rtc file.

If the I/O configuration of a configuration's hardware modules is divided into multiple *.rtc files, and if one of the hardware modules is an FDT/DTM slave, then the configuration builder crashes or freezes when building ArConfig.

ID#400072324 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.19 SP0x

NodeSwitch channel of CAN interfaces with disabled CAN I/O

The current value of the NodeSwitch channel of CAN interfaces on SG4 target systems is not displayed in the variable monitor or in monitor mode of the I/O mapping if CAN I/O communication is disabled.

Build – FinalizeBuild

ID#400088116 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

If BR modules are entered in Automation Studio with an invalid creation date (e.g. 01.01.2070), BR.AS.FinalizeBuild.exe crashes.

Removing these modules from the project or correcting the creation date fixes the problem.

ID#400076466 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

CompactFlash can't be created for APC 6xx series

The Automation Runtime operating system is not included correctly when a CompactFlash is generated for APCs from the 6xx series. It is therefore not possible to create a CF image. There is no workaround available.

Build – IECCompiler

ID#400150365 : solved problem, known since V3.00.90.30 SP0x, solved since V3.00.90.32 SP0x

Confusing warning when comparing constant values

If a constant variable is compared to the number 0, then warning 1288 can be output during compilation. This warning is confusing rather than helpful.

ID#400121333 : solved problem, known since AS4.0.17 SP, solved since V3.00.90.29 SP0x

Error message "Error 1140: Data type mismatch: Cannot convert UDINT to SINT"

This error message is output in a Ladder Diagram function block if a SEL block is used after an ADD block and an VAR_IN_OUT parameter is used on the ADD input.

ID#400126043 : solved problem, known since ARSG4_4.04.22_V04.04, solved since V3.00.90.29 SP0x

Program crash when using verification functions CheckRange, CheckSignedSubrange or CheckUnsignedSubrange for VAR_IN_OUT parameters

If one of the verification functions CheckRange, CheckSignedSubrange or CheckUnsignedSubrange is called for a VAR_IN_OUT parameter, faulty machine code is generated that may cause the program to crash.

ID#400123456 : solved problem, known since AS4.0.16 SP, solved since V3.00.90.29 SP0x

Error 1140 output if a DIV block follows an ADD block

ID#400085958 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.28 SP0x

No error message when an output of an EN/ENO block is connected.

ID# 400118939, 400123611 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.28 SP0x

IEC compiler freeze on some Ladder Diagram programs

ID#400110320 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.27 SP0x

Converting using *_TO_STRING not working correctly when assigning to reference variables

When assigning the result of *_TO_STRING to a REFERENCE TO STRING variable, only three characters are copied to the STRING variable.

ID# 400085139, 400108232 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.26 SP0x

Error 1140 Data type mismatch: Cannot convert INT to USINT.

This error is output when a MUL block and an ADD block are connected.

ID#400104475 : solved problem, known since , solved since V3.00.90.28 SP0x

System exception when calling a function in an action

If a function is used in an action, then the function or function block only works the first time it is called in the action. This problem only occurs on SG3 and SGC target systems.

ID#400104654 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Error message when using an enumerated type defined in ANSI C

Using an enumerated data type defined in ANSI C in more than one ANSI C program mistakenly results in error message 1166 when compiling an IEC program.

ID#400077144 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Incorrect error message 1068 when using the preprocessor instruction #pragma.

When the correct preprocessor instruction #pragma is used in an IEC language or B&R Automation Basic, then Error 1068 is output incorrectly during the build.

ID#400076591 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Error when building a function block programmed in Continuous Function Chart or Function Block Diagram

When building a function block programmed in Continuous Function Chart or Function Block Diagram, Error 1236 is output for no apparent reason.

ID#400073915 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.19 SP0x

Incorrect code generation when mapping an expression to a bit

If an expression that contains an equation is mapped to a bit, the generated code is incorrect. The faulty calculation only occurs when variables with a data width larger than 1 byte are used.

Build – IOMapBuilder

ID#400092880 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

Error 9237 if project build aborted when generating the I/O mapping

If a project build is aborted while the I/O mapping builder is running and the build process is then restarted immediately, then error 9237 will be reported and the project is completely rebuilt.

ID#400106142 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.29 SP0x

Installation error after changing the length of a dynamic I/O channel

If the length of a dynamic variable but not its name is changed in the POWERLINK configuration, installation error 8099 may occur when transferring the I/O mappings (IoMap).
If the name of the dynamic I/O channel is also changed, this error does not occur.

Build – MCBUILDER

ID#400093166 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Changing the version of NC data objects has no effect

When the version of an NC data object is changed, it isn't regenerated and is therefore also not transferred to the controller.

Build – OPC

ID#400105732 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.25 SP0x

OPC configurations rebuilt any time a variable declaration is changed

Changing any variable declaration until now caused the OPC configuration to be rebuilt during a build.

ID#400085395 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

OPC build doesn't work for large configurations

If OPC configurations were created that consisted of many opct files, then the OPC build wouldn't complete.

ID#400091476 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Bit addressing with a Windows OPC configuration results in PVI Error 12037

Due to an error in the OPC build, incorrect entries are generated in the output file for the B&R Windows OPC server. This can cause a connection error between the OPC server and client, and the PVI Error 12037 is reported on the server PC.

Build – Taskbuilder

ID# 400156805, 400168277 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

Error checking data types on SG3 target systems

Error checking data types on SG3 target systems

ID# 400154497, 400156805, 400161543, 400161768, 400162429, 400162700 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

Error due to build option "-limit1"

Error due to build option "-limit1"

ID#400144600 : solved problem, known since ARSG4_4.02.22_V04.02, solved since V3.00.90.32 SP0x

Incorrect length calculation with circular references

When calculating the length of data types, errors can occur if circular references are used. This is the case, for example if a data type uses another data type, which is using a reference to the original data type.

ID#400141163 : solved problem, known since V3.00.90.30 SP0x, solved since V3.00.90.31 SP0x

Error detecting build dependencies

If a structure element uses an array of a structure that has been declared in another declaration file, then the build dependency is not detected.

ID#400121358 : solved problem, known since V3.00.90.28 SP0x, solved since V3.00.90.31 SP0x

Build not working correctly after moving a declaration file

If a program includes an action, then moving a declaration file used in the program and then performing a build may not result in the program being recompiled.

ID#400114072 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

Constant string lengths are not resolved in data types derived from STRING.

If a data type derived from STRING has a length defined by a constant, then the length of the derived string is not resolved. This causes instances of this data type to receive an incorrect length. This can result in memory overlaps on the target system, which can lead to unpredictable effects. Projects that use this constellation must be revised by performing a rebuild.

ID#400102421 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.26 SP0x

Constants for limiting arrays

Type elements are mistakenly used when resolving constants for array limits. This error correction changes this behavior so that structure data type elements are no longer included.

ID#400099222 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.25 SP0x

"Out of memory" in projects with large PVs

An "Out of memory" error message may occur for projects with large PVs when building the module. The build is then aborted.

This correction has allowed the internal memory required when specifying offsets to be drastically reduced.

ID#400076865 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

On a Win7 64-bit system, BR module files sometimes have a different size than they do on a Windows XP system

The BR module files of cyclic tasks within an Automation Studio project are larger on Win 7 64-bit systems than they are in the same project on a Windows XP system. The reason for this is that on a Win 7 64-bit system the INIT section of the BR module file isn't compressed. This error has no effect on the functionality of the application. There is no workaround available.

Build – TpuBuilder

ID# 400075865, 400077909 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

AsTpu.br can't be compiled in the German version of Automation Studio.

ID# 400076507, 400077909, 400075865 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Error 6599 when building the AsTpu library

When building a configuration for an SG3 CPU with a TPU configuration, the internal error 6599 occurs, since a required configuration file is not installed.

Build – Transfer To Target

ID#400111949 : solved problem, known since V3.00.90.25 SP0x, solved since V3.00.90.28 SP0x

"Transfer only if not on target" setting ignored for referenced packages

ID#400102630 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Tasks loaded to the controller even though the option "Transfer objects only if relevant changes" is enabled

If a new global variable is declared, it is possible that tasks not using this variable will be loaded to the controller even though the option "Transfer objects only if relevant changes" is enabled.

Build – VC3

ID#400118478 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.27 SP0x

VC3 VA_Setup failure when using the VCScrSht library

Diagnostics – Debugger

ID#400140914 : solved problem, known since V3.00.90.29 SP0x, solved since V3.00.90.32 SP0x

Setting breakpoints in code segments used in multiple places

This correction fixes an error that occurred when setting breakpoints in code segments used in different compilations.

ID# 400126188, 400126188 : solved problem, known since V3.00.90.28 SP0x, solved since V3.00.90.32 SP0x

Error setting breakpoints in "Actions"

If breakpoints are set in IEC actions, it is possible that they are incorrectly marked as inactive. This error has been corrected.

ID#400122399 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.33 SP0x

Error message when setting breakpoints in IEC actions

If a breakpoint is saved in an IEC action, the error message "Setting breakpoint failed with message: No line xxx in file..." is output sporadically.

This error has been corrected.

ID#400111643 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.29 SP0x

Debugger reaching breakpoint in incorrect context

If referenced source code files are used that contain breakpoints, it is possible that the debugger reaches the breakpoints in an incorrect program context.

ID#400107150 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

Error setting breakpoints in referenced source code files

If source code files were being used as a reference, then setting debugger breakpoints in these files was no longer possible in certain circumstances.

This error has been corrected.

ID#400086699 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

With Chinese language settings, the "Active line" is not displayed.

If the Windows setting "Language for non-Unicode programs" is set to "Chinese" then the "Active line" is not marked in the text editor during debugging.

ID#400101813 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

Error message in Automation Studio when starting a function block during debugging

An error message may be output if an instance of the "CfgSetIPAddr" function block is executed while the debugger is active in Automation Studio.

ID#400087024 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

GDB freezes at frame info

The parser for GDB tasks gets stuck between single quotation marks in some character strings.

ID#400089656 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Breakpoint can't be set

If you try to set a breakpoint in an ANSI C source file, certain configurations (e.g. static libraries in the project) prevent you from doing so.

ID#400087683 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

The module context can not be changed under certain circumstances.

If a source code file is referenced in two programs in the Logical View and these programs are mapped to two different tasks in the software configuration, then the module context can't be switched between these tasks in monitor mode.
There is no possible workaround for this error.

ID#400087487 : solved problem, known since ARSG4_4.01.3_C04.01, solved since V3.00.90.22 SP0x

CPU load spikes when Automation Studio shows function block tooltips.

ID#400087398 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

AS crashes when you double click "Add variable" in the Debugger Watch window.

If you double click on the "Add variable" button in the Debugger Watch window, Automation Studio crashes.

ID# 400081602, 400090374 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

Debugger crashes when a breakpoint is set in an action.

If an action is used in a function block or a function, the Debugger crashes when a breakpoint is set within the action.

ID#400083042 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.23 SP0x

Problems when breakpoints set in libraries

Under certain circumstances setting breakpoints in libraries causes problems. A breakpoint can only be set in the context of a program.

ID#400078014 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Problem selecting function block instance for array variables

If a breakpoint is set in the program code for a function block, then in the breakpoint window under the "Condition" column you can select an instance of the function block to which the breakpoint refers. If the "Select" dialog box is used to do this, then arrays of function block instances don't allow individual elements to be selected. With this selection the dialog box can no longer be closed with OK, since the button is disabled.

This error has been corrected. As a workaround, the same result can be achieved by selecting the entire array variable in the dialog box, and then entering the desired index (in brackets) in the breakpoint window.

ID#400077131 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Auto Watch is shown in monitor mode even though it was unchecked.

ID#400102707 : known problem since V3.00.90.23 SP0x

If it is not possible to set breakpoints in programs, this may be caused by debugging explicitly being disabled in the task settings.

If debugging is re-enabled, then it will also be possible to set breakpoints again.

ID#400101370 : known problem since V3.00.90.23 SP0x

Debugger cannot be started if certain files in the project directory are write-protected.

If the "default.brk" or "default.tch" file is write-protected in the Diagnose directory of the open Automation Studio project, then the debugger cannot be started.

A workaround is to remove the write protection for both files.

Diagnostics – Logger

ID#400072880 : solved problem, known since V3.00.90.15, solved since V3.00.90.19 SP0x

F1 Help sometimes doesn't work for safety logger modules

Entries with error numbers higher than 65535 are not displayed in the safety logbook.

Diagnostics – Motion – NC Test

ID#400077013 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

German AS: NC constant selected in the NC Test is not applied

If an NC constant is selected or entered as the new value of a structure component in the "Structure" area of the NC Test, the value is not applied. Instead, the value is reset to "0" or an NC constant that represents the value "0" is displayed.

Diagnostics – Motion – NC Trace

ID#400115746 : solved problem, known since AS4.0.14, solved since V3.00.90.29 SP0x

"Values" settings reset to defaults when loading a .txt file

The "Values" settings in the Trace diagram settings are reset to the default values when loading a .txt file and then replacing the existing data. This means that shown values are no longer shown after the loading process and must be made visible again manually.

ID# 400078983, 400079755 : solved problem, known since V3.00.90.18, solved since V3.00.90.23 SP0x

NC Trace: Save/Load dialog box not shown

If the VC object name contains a ':' the dialog box for saving or loading curve data is not displayed.

ID#400084892 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Trace configuration saved without asking for confirmation when NC Trace is closed.

When NC Trace is closed, the trace configuration data is saved without asking for confirmation, although this may not be desired.

ID#400086400 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

Multi-axis trace limited to ten parameters

In the NC trace configuration it isn't possible to select more than ten parameters to be traced. It needs to be possible to select up to ten parameters for each NC object.

ID# 400075518, 400076490, 400076839 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

Icons in the toolbar are blurry and illegible

If the Windows control panel is used to enlarge the size of text and other items on the screen to 125% or higher, then the icons in the Automation Studio toolbar become blurry and illegible.

ID#400067447 : new function since V3.00.90.30 SP0x

Default setting *.mch when saving curve data

The default setting for saving curve data has been changed back to *.csv.
In addition, the file format of the last load/save procedure (e.g. if *.txt was selected) remains set for subsequent load/save procedures.

Diagnostics – Profiler

ID#400071488 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.19 SP0x

Profiler: Minimal Net Time und Minimal Gross Time

Diagnostics – Trace

ID# 400090651, 400094189 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Structure arrays with a length of one can sometimes not be used in the trace.

If an element of a structure is an array with a length of one, then this element can't be inserted in the trace using the Insert dialog box.
When it is selected in the dialog box, an incorrect variable name is inserted in the list of trace variables.

Workaround: correct the name of the variable manually.

ID#400079304 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Trigger conditions don't work in some circumstances

If trigger conditions are set in the Trace, then under some circumstances the error message "Error: Condition variable 2&3&4" doesn't exist...." is generated.
As a workaround, close and reopen the trace window.

This error has been corrected.

ID#400080562 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Trigger conditions don't work in some circumstances

If trigger conditions are set in the Trace, then under some circumstances the error message "Error: Condition variable 2&3&4" doesn't exist...." is generated.
As a workaround, close and reopen the trace window.

This error has been corrected.

ID#400068238 : new function since V3.00.90.29 SP0x

NC Trace: "Don't ask me again" setting is overwritten by *.mch file

When loading trace data, the message "Would you like to replace the existing data?" appears. This message can be disabled by selecting "Don't ask me again". The setting for the current trace session is overwritten by the *.mch file.

Diagnostics – Watch

ID#400098447 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

Display error after closing and reopening certain Watch configurations

When you close and reopen the Watch for certain variables, values are no longer shown for some variables. This error occurs for array variables with a length of 1 and a structured data type.

As a workaround, you have to delete the respective variables from the Watch and reinsert them.

The error also occurs in the editor watch when monitor mode is deactivated/reactivated.

ID# 400101381, 400101619, 400104912 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

Incorrect program context when opening a C source file in monitor mode

Program context may be incorrect when opening C programs in monitor mode. This behavior can be corrected after the fact. This error does not occur if the C program is already open when monitor mode is enabled.

ID#400093737 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Display error after closing and reopening certain Watch configurations

When you close and reopen the Watch for certain variables, values are no longer shown for some variables. This error occurs for array variables with a length of 1 and a structured data type.

As a workaround, you have to delete the respective variables from the Watch and reinsert them.

The error also occurs in the editor watch when monitor mode is deactivated/reactivated.

ID#400092951 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

newline converted with CR + LF

When converting between IEC and ASCII, newline is converted with CR + LF.

ID#400092280 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Display error after closing and reopening certain Watch configurations

When you close and reopen the Watch for certain variables, values are no longer shown for some variables. This error occurs for array variables with a length of 1 and a structured data type.

As a workaround, you have to delete the respective variables from the Watch and reinsert them.

The error also occurs in the editor watch when monitor mode is deactivated/reactivated.

ID#400090638 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

With certain regional and language settings, such as US, there is a syntax error in the Watch.

Date and time values are displayed with incorrect formatting in the Watch, which results in a syntax error when you try to enter a value.

ID# 400086630, 400086556, 400086652 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

The Watch window isn't shown in the programming language editors.

The Watch window isn't shown in the programming language editors.

ID# 400082345, 400087595 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

Display error after closing and reopening certain Watch configurations

When you close and reopen the Watch for certain variables, values are no longer shown for some variables. This error occurs for array variables with a length of 1 and a structured data type.

As a workaround, you have to delete the respective variables from the Watch and reinsert them.

The error also occurs in the editor watch when monitor mode is deactivated/reactivated.

ID# 400083045, 400083470 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Watch window doesn't restore the display correctly when reopened

If enumerators are inserted in the Watch window, after it is closed and reopened they are no longer shown.
The respective variables or structure must then be reinserted in the Watch window.

ID#400081462 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Watch crashes when a variable with special characteristics is inserted

If a variable is inserted in the Watch with the following characteristics:

- 1.) an array with 100 or more elements
 - 2.) data type name with exactly 32 characters
- then Automation Studio crashes.

As a workaround, rename the structure so that it has fewer than 32 characters.

ID# 400082095, 400082902, 400083295 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Automation Studio crashes when you click around in the Monitor Watch.

ID#400081735 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Automation Studio crashes when an invalid value entry in the Monitor Watch is confirmed.

ID#400081705 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Structured variables displayed incorrectly after monitor mode is turned off and back on

If complex arrays of structure variables are displayed in the editor watch window and monitor mode is turned off and back on, these variables are not refreshed correctly. Some elements of array variables are no longer displayed.
This error has been corrected.

ID#400080584 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Automation Studio crashes when the value of a PV is changed via double-click in the Monitor Watch.

ID#400078123 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

The values of large structures or a large number of variables are not displayed in the watch window

If the number of structure elements and variables in the watch window exceeds 9999, then only the values of the first 9999 elements are shown. The rest of the values are not displayed.
There is no workaround for this error.

ID#400075758 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Partial structures inserted incorrectly in the watch window

If the Automation Studio watch window already contains elements of a structure array and the Insert dialog box is used to insert more elements, the new ones are added in the wrong places in the tree diagram. This error only occurs when the elements of a structure array are

inserted in multiple steps using the Insert dialog box, and not when all the elements are inserted in a single operation.

This error has been corrected.

ID#400077029 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Incorrect context displayed when the editor is opened in monitor mode

ID#400077027 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Crash when writing a USINT array with length 10 in the watch window

If you create an array with 10 USINT elements and then insert it in the watch window, you can switch to "String" to view the string that corresponds to the numeric values. If this field is overwritten with a new value and the entered string is 9 or 10 characters long, Automation Studio crashes.

This error has been corrected. Valid entries are accepted, but if the string is too long it is truncated to the maximum length.

ID# 400076263, 400076429, 400076186 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Automation Studio freezes when you click in the editor's watch window

If you click on a column header in the editor's watch window and then in the watch window below it, Automation Studio crashes.

ID# 400076263, 400076429, 400076186, 400076887, 400077246, 400077694, 400077385, 400077801, 400077673, 400077131, 400078060, 400077919, 400078586 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Automation Studio freezes when you click in the monitor watch window.

ID#270460 : solved problem, known since V3.00.90.17, solved since V3.00.90.19 SP0x

Takes a long time to expand/collapse structure elements in the editor watch using the mouse

ID#268189 : solved problem, known since V3.00.90.15, solved since V3.00.90.20 SP0x

The values of large structures or a large number of variables are not displayed in the watch window

If the number of structure elements and variables in the watch window exceeds 9999, then only the values of the first 9999 elements are shown. The rest of the values are not displayed.
There is no workaround for this error.

IO Configuration – CANopen

ID#400097543 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

"Open device configuration" entry missing from Physical View shortcut menu

If you try to close Automation Studio without saving changes and then select "Cancel", the entry "Open device configuration" is no longer shown in the Physical View shortcut menu.

ID#400089083 : solved problem, known since ARSG4_3.00.22_V03.00, solved since V3.00.90.22 SP0x

Error 30030 for CANopen master with 4 slaves

ID#400079554 : solved problem, known since V3.00.81.31 SP0x, solved since V3.00.90.21 SP0x

CANopen function "Don't Write All Objects On Download" disabled required objects

The following objects were disabled by the CANopen function "Don't Write All Objects On Download", although they are still required by the CANopen driver.

1016: Heart beat consumer time
1017: Heart beat producer time
1018: Identity object

IO Configuration – DTM

ID#400131168 : solved problem, known since V3.00.90.28 SP0x, solved since V3.00.90.31 SP0x

error 8021 "The B&R Module already exists in the system" Module name " :: "

Due to a crash of AS while inserting or deleting an interface module (X20IF10x1–1 bzw. X20IF10x3–1) the project might become erroronous. In this condition a file with the name of the interface module exists in the configuration module without an according hardware module counterpart in the physical view. To solve this issue the project needs to be closed and the file must be manually deleted from \Physical\ConfigName\PlcName\Plc.pkg.

ID#400122559 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.28 SP0x

Problem configuring 6 or more DTM interface modules

An error in DTM cache logic sometimes led to a faulty assignment of the configuration module name.

ID#400074467 : solved problem, known since V3.00.90.17, solved since V3.00.90.19 SP0x

Hardware module name (Equipment ID) can't be configured for fieldbus devices (FDT/DTM)

The hardware module name (Equipment ID) can't be configured for fieldbus devices (FDT/DTM). Automation Studio assigns a predefined name that is identical for all modules of the same type (e.g. "AS-Interface DTM Device"). As a result it is also not possible to differentiate between the devices in SDM, since the same name is displayed for each device.

ID#400102432 : new function since V3.00.90.25 SP0x

No support for printing out DTMs

Printing DTMs was not possible until now.

ID#400092113 : known problem since V3.00.90.21 SP0x

Faulty GSDML files can result in duplicate channel names

Faulty GSDML files can result in duplicate channel names in the I/O mapping.

The problem can be fixed as follows:

1. Correct the respective data items in the GSDML file
2. Adjust the corresponding tag names in the process data table for the interface module
3. Map the I/O channels in the I/O configuration of the respective slave manually.

IO Configuration – DTM 3rd party

ID#400078725 : solved problem, known since V3.00.90.18, solved since V3.00.90.23 SP0x

Problem can't be reproduced

IO Configuration – Modbus TCP

ID#400116380 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

IP address for Modbus TCP slave not entered with SL-SL communication

If SL-to-SL communication is configured via Modbus TCP, then the IP address for the Modbus line is not entered in the ArConfig file during the build process. This prevents SL-to-SL communication from working on the PLC.

ID#400109342 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

Modbus TCP not working on POWERLINK interface in DHCP mode

If a POWERLINK interface is being used in Ethernet mode with DHCP set, "Error 9002: Not a valid IP address" is reported during the build process.

ID#400089533 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

To activate the Modbus master, you have to go into the interface settings for the Ethernet port and activate "Use as Modbus master" under "openSafety over TCP/IP", even though no safety communication is taking place.

IO Configuration – Profibus

ID#400100166 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

Missing DPV1 section in CANopen slave configuration for enabling DPV1 communication

The "DPV1 parameters" section is not shown in the device configuration for CANopen devices where Max_User_Prm_Data_Len is used instead of User_Prm_Data or Ext_User_Prm_Data_Const to build the configuration dynamically with ExtUserPrmData entries.

Languages – Ladder

ID#400088255 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Monitor mode no longer works via modem connection

Motion Components

ID#400085316 : solved problem, known since AH3.00.90.0019, solved since V3.00.90.29 SP0x

Wrong help page for network command trace

When you press F1 in the network command trace the wrong help page is opened and an unnecessary error message is output.

Online Services

ID#400117318 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.33 SP0x

Operating system deleted when updating MemCard

ID#400066511 : new function since V3.00.90.21 SP0x

AS is sluggish when online connection has a high latency time.

With the AS online connection (INA2000 connection), the speed of data transfer is strongly dependent on the latency time of the network used. At a latency time of 200 ms, large projects may take minutes to establish a connection.

ID#400042449 : new function since V3.00.90.31 SP0x

No warning output by Automation Studio when connecting via an incompatible PVI version

Online Settings Dialog

ID#400079564 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Remote port higher than 32767 not permitted

If you try to set a port higher than 32767 for a remote connection, this is denied with an error message.

ID#400059839 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Parameter "/CKDA=1" not saved as extra setting

The online settings editor doesn't save the entry "/CKDA=1" in the column "Extra CPU Settings". If you close the editor and then reopen it, the entered value is no longer displayed.

Programming – ANSI C

ID# 400105576, 400106679 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.27 SP0x

Error when selecting function block parameters in an ANSI C library

ID# 400105727, 400105747 : solved problem, known since V3.00.90.28 SP0x, solved since V3.00.90.30 SP0x

Error when selecting function block parameters in an ANSI C library

ID#400087432 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Newly added variables are not suggested via auto-complete in the open ANSI C editor.

ID#400094132 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Element selection for FB variables doesn't work any more.

ID#400086162 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Error searching for a string in the ANSI C editor.

ID#400090449 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Some tooltips in the C editor incorrect.

ID#400087432 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Newly added variables are not suggested via auto-complete in the open ANSI C editor.

ID#400089884 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

AS crashes when an array index entered in ANSI C editor

Automation Studio crashes when the opening brackets of an array index is entered in the ANSI C editor.

ID#400086529 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

ANSI C editor crashes when arrays are declared with a non IEC data type.

ID# 400084136, 400085113, 400096562 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.23 SP0x

Cyrillic input (CodePage) no longer possible in text editors.

ID# 400078702, 400081376 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

SmartEdit functions don't work when a structure contains a function block. In this case, the function block members aren't listed.

ID#400077256 : solved problem, known since V3.00.90.18, solved since V3.00.90.22 SP0x

For files under version control, no message is output for a Replace or Replace All.

ID#400077174 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

A term searched for using Ctrl+Shift+F3 is subsequently not found using F3 or Shift+F3.

ID#400077019 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

CTRL+L doesn't delete a line.

Ctrl+L doesn't delete a line in the text editor.

ID#400076794 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Horizontal scrollbar in text editor has fixed width and can't be changed

ID# 400076667, 400076838 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

SmartEdit error in ANSI C editor with referenced structure elements.

Referenced structure elements are not offered by the SmartEdit function in the ANSI C editor.

ID#400076086 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

In the text editor, Ctrl + click doesn't select a word

ID# 400054281, 400115438 : new function since V3.00.90.27 SP0x

Default case of a switch case construct is executed without a break

When using GCC 4.1.1 and 4.1.2 this causes a compiler error.

ID# 400076041, 400075847 : new function since V3.00.90.19 SP0x

Hide tab lines in the text editor.

Programming – ANSI C++

ID#400081302 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

In ANSI C no index is displayed for array variables.

ID#400081302 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

In ANSI C no index is displayed for array variables.

ID#273110 : solved problem, known since V3.00.81.18, solved since V3.00.90.20 SP0x

SmartEdit provides incorrect or insufficient suggestions when using class templates.

ID# 400076347 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Smart Edit is slow in big projects.

Programming – Automation Basic

ID#400114180 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

Error in automatic indentation of IF/ELSE constructs in Automation Basic

ID#400113395 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.27 SP0x

Error in automatic indentation of IF/ELSE constructs in Automation Basic

ID#400111141 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.27 SP0x

Faulty code for IF statement in Automation Basic

Faulty code may result on SG3 and SGC target system if an IF statement in Automation Basic includes a condition for explicit conversion to a data type.

ID#307640 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Automation Studio crashes when false binary literal entered in Automation Basic editor

When the false binary literal %2 is entered in the Automation Basic editor, Automation Studio crashes.

ID# 400090175, 400092078, 400093272, 400094590 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

No longer possible to copy/paste individual words using the mouse.

ID#400088842 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Incorrect bracketing causes Automation Studio to crash when a SmartEdit function is used.

ID# 400086240, 400087318 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Autocomplete doesn't work for multidimensional structure elements

The automatically inserted index doesn't conform to IEC

ID#400081634 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Incorrect syntax coloring in the Automation Basic editor when there's a dollar sign in a character string.

ID#400080997 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Build Error 1179 when you use EDGE in a function block.

Programming – Data Type Declaration Table Editor

ID#400079364 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Comments for derived data types written in the table editor are discarded after saving.

Correcting this error solves two problems:

1. When you write comments for derived data types in the table editor, these are lost when you save.
2. When you write comments for derived data types in the text editor, they are not displayed when opened in the table editor and are therefore also lost.

Correcting this problem solves both problems, and comments are no longer discarded.

ID#400077383 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Error message when initializing certain variables in the table editor

If a structure variable is declared in Automation Studio and one of the structure components is a function block, when the initialization window for this variable is opened in the table editor an error message is output.
When this error message is acknowledged, the initialization window doesn't show the whole structure of the variable, and it isn't possible to assign all the initial values.

This error has been corrected. The initialization window opens without errors and variables can be initialized.

Programming – Data Type Declaration Text Editor

ID#400083771 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

Automation Studio crashes when "END_TYPE" is missing from the type declaration text editor.

Programming – Declare Variable Dialog

ID# 400074810 : solved problem, known since V3.00.90.17, solved since V3.00.90.19 SP0x

Declaration of Alias FB with "Declare all" not always correct.

Using AutoDeclare on function block instances with the "Declare all" button sometimes enters the wrong block data type in the Variable Declaration dialog box.

Programming – FBD

ID#400138129 : solved problem, known since V3.00.90.29 SP0x, solved since V3.00.90.31 SP0x

Automation Studio crashing after copying and pasting a certain FBD network

ID#400138191 : solved problem, known since V3.00.90.29 SP0x, solved since V3.00.90.31 SP0x

Problem entering data in FBD editor

Umlauts cannot be entered in the FBD editor.

An error occurs when checking for valid input in the FBD editor if the cursor is not at the end of the input.

ID#400114073 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.27 SP0x

Automation Studio crashes without an error message if an FBD function block is opened several times from a program in monitor mode.

ID#400081914 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Automation Studio crashes when you open a FBD task

After a crash, incorrect data is written to the FBD file, which causes Automation Studio to crash when it is opened again.

ID#400071811 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.19 SP0x

Incorrect handling of empty block connections in monitor mode

If a value is entered for empty block connections in monitor mode, then this value is always written to the last element of the block instance variable.

Entering a value for empty block connections is therefore no longer permitted.

Programming – Function Text Editor

ID#400076784 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Error message in source editor when the function block declaration isn't saved.

Programming – Interface Configuration Editor

ID#400115259 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

Cannot select some customized PP65 devices as POWERLINK V2 intelligent controllers

When adding a POWERLINK V2 intelligent controller, it is necessary to specify the configuration in the project in which this iCN is configured as a controlled node. If a customized PP65 is being used as a CPU in the configuration selected, then the IF4 interface is not offered for selection for some PP65 systems, and the iCN cannot be added.

ID#277730 : new function since V3.00.90.20 SP0x

Support of 'Multiple Asynchronous Send'

Programming – IO Configuration Editor

ID#400142151 : solved problem, known since V3.00.90.30 SP0x, solved since V3.00.90.31 SP0x

Deleting or renaming a POWERLINK iCN configuration resets the settings of the X2X interface on POWERLINK–X2X bus controllers in the master configuration.

Situation: Project with two configurations:

iCN configuration with a POWERLINK interface configured as a controlled node.

Master configuration with one POWERLINK iCN (epl_1cn) that references the POWERLINK interface in the iCN configuration.

The master configuration also contains a POWERLINK–X2X bus controller (e.g. X20BC0083) that has different values than the default values for the X2X interface.

If the iCN configuration is now deleted or renamed, then the parameters of the X2X interface on the POWERLINK–X2X bus controller are reset to their default values.

ID#400115617 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

Empty I/O mapping causing problems when saving the Modbus configuration

Attempting to save a configuration containing Modbus TCP slaves may cause an error if there are no I/O channels in the configuration.

Programming – IO Mapping Table Editor

ID#400112924 : solved problem, known since V3.00.90.25 SP0x, solved since V3.00.90.28 SP0x

I/O mappings lost when importing hardware modules

ID#400108342 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

For SGC systems, 0 or 1 must be specified instead of FALSE or TRUE when forcing a BOOL data type in the I/O mapping editor.

ID# 400101416, 400101754, 400102420, 400102735, 400103072 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Some channels not connected in the I/O mapping's monitoring mode

ID# 400102416, 400103257, 400102438 : solved problem, known since V3.00.90.x UP05, solved since V3.00.90.25 SP0x

Data type filter in the variable selection dialog box for I/O mapping not working in the German version of Automation Studio

ID#400084875 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

German Umlaut characters in I/O mapping description fields are lost during a hardware export.

ID#400078402 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Faulty I/O addressing on SG3 systems

If I/O mapping has not yet been performed for an SG3 project, mapping the first variables to I/O channels may cause an error when compiling the project.

Error 6419 is returned. The cause is faulty addressing of the I/O channels. The character string for I/O addressing is missing the section for the I/O module slot.

If you correct the I/O addressing in the file IoMap.iom, the error no longer occurs. To correct the addressing, open IoMap.iom in text format.

ID#400102438 : known problem since V3.00.90.23 SP0x

Data type filter in the variable selection dialog box for I/O mapping not working in the German version of Automation Studio

ID#400094713 : known problem since V3.00.90.22 SP0x

Changes made in the "Inverse" or "Simulate" column in the I/O mapping editor are lost if multiple mappings are selected at the same time.

Programming – LD

ID#400149860 : solved problem, known since V3.00.90.31 SP0x, solved since V3.00.90.32 SP0x

Function block incorrectly displayed in Ladder Diagram editor

ID#400143184 : solved problem, known since V3.00.90.30 SP0x, solved since V3.00.90.31 SP0x

Multiple function block calls for same instance not working in a network

ID#400117092 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.30 SP0x

Function blocks cut off in certain configurations in the Ladder Diagram editor

ID#400120297 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

Automation Studio crash on "Find in files" in Ladder Diagram with empty networks

ID#400111492 : solved problem, known since V3.00.90.25 SP0x, solved since V3.00.90.27 SP0x

Coil cannot be set if an EN/ENO block is being used parallel to another condition.

ID#400099226 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

Ladder Diagram editor crashes when opening a ladder diagram that contains undeclared variables.

ID#400092765 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

Function blocks with EN/ENO and no output are not executed in Ladder Diagram.

ID#400092536 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Inserting a function block results in incorrect display.

ID#400079296 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

No PV values are shown when viewing a ladder diagram in monitor mode.

ID#400083301 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

InOut variables with the data type REAL cause problems in the Ladder Diagram editor.

ID#400077071 : solved problem, known since V3.00.90.18, solved since V3.00.90.21 SP0x

When entering an array index, the LD editor doesn't offer any variables and constants after Ctrl+Space.

ID#400081245 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

In the LAD editor, a function block instance stops being executed when a parameter is changed.

If all the outputs are removed from a function block with EN/ENO connections, then it is no longer executed.

ID#400077071 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

When entering an array index, the LD editor doesn't offer any variables and constants after Ctrl+Space.

ID#400078129 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Function block split when a new column is inserted

If you insert a column inside, above or below a Compute/Compare block ("Ins" key), the Compute/Compare block is split

ID#400076660 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Automation Studio crashes when an EN/ENO connection is deleted.

If an EN/ENO connection at a certain position is deleted, Automation Studio crashes.

ID#400076935 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Displaying the signal flow of an array variable with a variable index doesn't work.

Displaying a signal flow using an array variable with an index that is also a variable doesn't work. The display of the signal flow is terminated at this point.

Programming – Motion – Cam Editor

ID#400107691 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

Cam profile editor: Cannot set the number of points when exporting

Since Windows Vista, the setting for specifying how many points should be saved when using the "Create file with points" function is no longer displayed.

Programming – Motion – CNC Program Editor

ID# 400077336, 400077084 , 400077970, 400080265 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

CNC editor causes an AS error.

Removing an opening bracket in the CNC editor causes an error in Automation Studio.

Programming – Motion – Init Parameter Table Editor

ID#400089574 : solved problem, known since unbekannt, solved since V3.00.90.23 SP0x

Wrong data type when rebuilding NC–INIT parameter modules

Structure components with the data type UDINT are converted to UINT. For example, 5999971 becomes 36195.

Programming – Motion – Motor Parameter Table Editor

ID# 400106589, 400119564 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.28 SP0x

Wrong Motorparameters in Automation Studio 3.00xx for Motors 8LSC75.xx0022x000–0, – 1

The motordatabase MotorLafert.mdb must be exchanged by a new file in ..\AS\Motion

Programming – Motion – NC Manager Configuration Editor

ID#400112087 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.28 SP0x

Changed order of interfaces in the NC configuration

Changing the data in the AR configuration sometimes changes the order of interfaces in the NC configuration.

Programming – Motion Components

ID#400129005 : solved problem, known since V3.00.90.28 SP0x, solved since V3.00.90.30 SP0x

Crash when shutting down diagnostic tools

Attempting to use a diagnostics tool (Test, Trace, Watch) to go online on a CPU for which no hardware upgrade is installed in AS crashes AS when closing the diagnostics tool.

ID#400126057 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.29 SP0x

Network command trace: Crash when opening an "old" network command trace

AS crashed when loading a network command trace from a file that still contained an "old" ACP10 version entry (e.g. V0.555).

ID#400111802 : solved problem, known since nicht relevant, solved since V3.00.90.28 SP0x

CNC Trace not starting on certain trigger conditions

CNC Trace doesn't start if the "Beginning of movement" or "End of movement" trigger condition is set.

ID#400114245 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

NC configuration built incorrectly

If an NC Manager version that is not installed in AS is entered in the NC configuration (e.g. acp10cfg.ncc), then a CAN interface is entered in the NC configuration when it is built although the configuration actually only included a POWERLINK interface.

ID#400095938 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

The task "ncsdccctrl" is inserted although it is not required

If you insert hardware that can be operated via SDC on an X2X interface, then the task "ncsdccctrl" is inserted, even if the hardware module is operated with a ramp function model.

ID#400093405 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Error in I/O mapping file after inserting a hardware module

If a hardware module (e.g. X20SM1436) is inserted on the X2X interface, and if it is automatically configured (in the Wizard) to be operated using the acp10sdc library, then the IoMap.iom was updated incorrectly and could no longer be opened in AS.

ID#400084315 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

For 80SD* modules, parameter ID 109 is calculated incorrectly when the motor encoder isn't used

When inserting an 80SD* module in the Wizard, if you set "Use motor encoder" to "no", the calculation is performed as though "yes" had been set.

This error only occurs in the German language version of Automation Studio.

ID#400141019 : new function since V3.00.90.31 SP0x

Should be possible to use XML syntax highlighting for GMC CNC files

ID#367420 : new function since V3.00.90.29 SP0x

Support for the module 80VD100PD.C188-01

ID#295585 : new function since V3.00.90.23 SP0x

Support of 8BAC0125.000-1

Programming – OPC Mapping Editor

ID# 400068304, 400073285, 400078138, 400109543 : known problem since V3.00.81.26 SP0x

When an OPC item in the mapping is deleted or inserted, a comma is inserted after the index in the connection description of array elements.

If the mapping file contains OPC tags with array indexing in the variable name (e.g. "varname[2]", "struct[1].var1), each time the mapping file is saved, a comma is inserted after the array index or before the closing bracket.

Programming – OPC Tag Editor

ID# 400088924, 400102837 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.26 SP0x

Parameters necessary for OPC not set when opening a 3.0.81 project

If a 3.0.81 project was opened, then new parameters in the OPC tag declaration files (.opct) were not set until now. This could cause errors when creating OPC mapping files and/or during a project build.

ID#400084800 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Incorrect length calculation for structures in the OPC tag editor when nested structures are used.

If a tag is created manually in the OPC tag editor, and the Select dialog box is used to assign a member variable of a structure that is a structure itself, then in the OPC tag editor the structure length calculated for that tag was incorrect.,30

Programming – Permanent Variable Table Editor

ID#400106740 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.24 SP0x

Not possible to use BOOL array as a permanent variable

Trying to specify a BOOL array as a permanent variable in the permanent variable table editor is refused with an error.

Programming – Select Variable Dialog

ID# 400082717, 400083942, 400086933 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Array variables with an index > 0 can't be connected to VC3 controls

In a VC3 application, it is not possible to connect an array variable with an index >0

ID#400080882 : solved problem, known since V3.00.90.18, solved since V3.00.90.21 SP0x

A pointer array with a structure data type is not resolved in the select variable dialog box.

For a pointer array with a structure data type, the select variable dialog box (e.g in the VC 3 editor) doesn't allow you to select the elements of the structure.

Programming – SFC

ID#400115622 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.27 SP0x

The last line of a text-based SFC subroutine is not printed.

ID#400107740 : solved problem, known since AS4.0.14, solved since V3.00.90.26 SP0x

Automation Studio crash when "." is entered in an SFC step

ID#400102325 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Entire document not printed in a text-based SFC sub-editor if word wrap enabled

ID#400104585 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Positioning not handled correctly when double-clicking on an error message in the SFC editor

ID#400052995 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

If an SFC transition or SFC action uses an IEC textual language, it is not checked out when edited.

ID#400083351 : solved problem, known since V3.00.81.32 SP0x, solved since V3.00.90.22 SP0x

Automation Studio crashes in monitor mode when a SFC function block is opened.

ID#400083719 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Automation Studio crashes when you copy a step in the SFC Editor

ID#400078271 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

The function parameters of an SFC FB are not offered by SmartEdit in an ST step

ID#400076715 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Automation Studio crashes when an SFC FB instance is opened in monitor mode.

When the function "Go to implementation" is selected in monitor mode, Automation Studio crashes.

Programming – Software Configuration Editor

ID# 400108019, 400107599, 400112099 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

Incorrect version number of the VISAPI library displayed in the software configuration

ID#400079527 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Starting and stopping tasks causes the entire right half of the software configuration to refresh when in monitor mode.

ID#400081296 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Software configuration shows the incorrect version numbers for standard B&R libraries

If a version number is assigned in a package in the logical view, it is also applied to manually mapped standard B&R libraries in the software configuration. The Automation Runtime version should actually be entered here.

ID#400110589 : known problem since V3.00.90.25 SP0x

Incorrect version number of the VISAPI library displayed in the software configuration

ID#400107599 : known problem since V3.00.90.24 SP0x

Incorrect version number of the VISAPI library displayed in the software configuration

Programming – ST

ID#400170221 : solved problem, known since AS4.2.03, solved since V3.00.90.33 SP0x

Arrays shown as "Local" in tooltip in monitor mode

ID#400102328 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Lowercase keywords are offered if declaring variables in text editors when word wrap is disabled.

ID# 400100057, 400102326 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

Tooltip in monitor mode is only shown once for a variable.

ID#400100058 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

Tooltip in monitor mode doesn't show any values for REAL and LREAL variables.

ID#400099453 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

Automation Studio crashes when the cursor is positioned over a component of a structure variable.

In the editor for text-based programming languages, if the mouse cursor is positioned over a component of a structure variable and if the name of the structure variable is only one character, then Automation Studio crashes.

ID# 400098869, 400098867, 400099399 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

In monitor mode, the tooltip shows 'local' for all variables.

ID#400091517 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Automation Studio crashes when you right-click.

ID# 400090416, 400097092 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Tooltip shows the wrong array size in the text editors.

ID# 400091165, 400090013, 400089525, 400090600, 400092461, 400093238 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

No longer possible to copy/paste individual words using the mouse.

ID#400089893 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

Automation Studio crashes when the cursor is positioned over a component of a structure variable.

In the editor for text-based programming languages, if the mouse cursor is positioned over a component of a structure variable and if the name of the structure variable is only one character, then Automation Studio crashes.

ID#400084375 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

Line coverage in monitor mode stops working when a code section is collapsed.

If line coverage is enabled in monitor mode and a section of code is collapsed, and if this results in more than 120 lines being visible in the editor, then line coverage stops working.

ID#400082704 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

When a text is selected, then selecting "Go to Declaration of" from the shortcut menus goes to the selection and not the current position.

ID#400084202 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

Text can no longer be moved using the mouse in the text editor.

ID# 400078154, 400081604 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Tooltip doesn't work in monitor mode for structure variables.

In monitor mode, moving the mouse over a variable should show a tooltip with its current value. Sometimes this doesn't work correctly for structure variables.

ID#400078470 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Code snippets are not inserted completely in the text editor when using SmartEdit.

ID#400077856 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

In the text editor, pressing the Enter key in multiple-line comments opens the variable declaration.

ID#400076938 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

SmartEdit doesn't work for structure elements if the transfer parameter is a structure or FB.

ID#400076577 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Incorrect variable declaration in the text editor for a function / function block.

In the text editor, the variable declaration is opened instead of the interface declaration.

ID#400077962 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Automation Studio crashes when you try to display a tool tip for a structure variable in monitor mode.

ID# 400076083, 400077351, 400080429 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

The function "Go to implementation" doesn't work for actions.

ID#400072798 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

FB instances displayed incorrectly in editor watch.

ID#400075924 : solved problem, known since V3.00.90.18, solved since V3.00.90.22 SP0x

In the text editor, the tooltip for enumerators doesn't show a value.

ID#400076723 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Keyword in parentheses not capitalized after end of line

ID#400077526 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Ctrl+Space for a structure array inserts the variable with no index

ID#400109072 : new function since V3.00.90.28 SP0x

When using autocomplete and a filter is specified, the first entry does not appear in the first position.

ID#400076586 : new function since V3.00.90.21 SP0x

When inserting using CTRL+V (paste) the file is not checked out

If the text from a checked-in file is inserted using Ctrl+V, it is not checked out and therefore not inserted.

ID#400076636 : new function since V3.00.90.20 SP0x

When a character is deleted using the delete key, the file is not checked out

If a character in a checked-in file is deleted using the delete key, the file is not checked out and therefore nothing is deleted.

ID#400076586 : new function since V3.00.90.20 SP0x

When inserting using CTRL+V (paste) the file is not checked out

If the text from a checked-in file is inserted using Ctrl+V, it is not checked out and therefore not inserted.

Programming – System Configuration

ID#400135207 : solved problem, known since V3.00.90.29 SP0x, solved since V3.00.90.32 SP0x

Not able to change tolerance of task classes after automatic rounding

ID#400082393 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

It is possible to disable the FTP server on the ARSim, even though this option has no meaning in this case.

On an ARSim target, it is possible to disable the FTP server in the system configuration. This setting has no meaning in this case, however, since there is no FTP server on the ARSim in the first place.

ID#400138687 : known problem since V3.00.90.29 SP0x

Not able to configure PV memory in the system configuration

This error occurs because the Automation Studio project is inconsistent. The inconsistency may have occurred due to an error converting from AS 2.7 to AS 3. The inconsistency may also have resulted from replacing the CPU in the project.

The inconsistency cannot be corrected by making a change in AS (and therefore not within the framework of a V3.0.90 SP).

There are two possibilities for the user to correct the inconsistency in the project himself:

1. Reset the system software properties under the "X20CP1483" tab with the "Default" button. The disadvantage here is that all settings are reset to their default values, and any settings that have been changed are lost.

2. Manipulate the sysconf.sysc file.

Replace all occurrences of "CP1584" to "CP1483" in the sysconf.sysc file located in the <ProjectPath>\Physical\Config1\PLC1 directory. The disadvantage here is that a file in the AS project must be edited externally, but this also makes sure that any changed settings are retained.

Programming – Variable Declaration Table Editor

ID#400108524 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.27 SP0x

See A&P 337880.

ID#400105111 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Escape sequences in IEC strings result in incorrect string lengths

The length of a string is determined incorrectly if using e.g. "\$R" instead of "\$r" as an escape sequence in an IEC string.

ID# 400091999, 400096044 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

An entered initial value is not applied in some cases

When you enter an initial value in the dialog box for initializing variables and types, this value is sometimes not shown if you close and reopen the dialog box.

This error occurs for an array of structures with more than 2 elements.

ID#400088341 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Automation Studio crashes when you click on "Declare all variables"

ID#400089000 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Declaration files can not be edited under certain circumstances

If the name of a package containing IEC declaration files (extension .typ, .fun, or .var) is the same as the name of a binary library in the project, then the IEC declaration files can't be edited in the table editor.

To work around this problem, either use a text editor to edit the file or change one of the names (package or binary library).

ID# 400079076, 400076197 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Automation Studio stops responding when you open the dialog box for initializing structures

In the table editor for variable and data type declarations, it takes a very long time to open the dialog box for initializing structures and arrays from the "Value" column for large, complex structures. This only happens when an initialization has already been configured. During this time it is not possible to interact with Automation Studio. If you wait for the dialog box to open, it does eventually open correctly and show all the existing initialization values.

This error has been corrected so that the dialog box opens immediately, and then you can expand the respective (sub)structures in order to view the existing initialization values.

ID#400077859 : solved problem, known since V3.00.90.18, solved since V3.00.90.22 SP0x

Constant array limits in type definitions are not resolved correctly.

If you define a derived data type as an array with a constant as the maximum index, then when you expand a variable with this type in the VC4 data source editor an unlimited number of elements are displayed.

Programming – Variable Declaration Text Editor

ID# 400078628, 400078741 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Variables declared incorrectly as constants in the textual declaration editor.

Programming – Variable Mapping Table Editor

ID#400125153 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.29 SP0x

Unable to connect remanent variables in the PV mapping

Tools – Generate Bus Navigator Source

ID#400117290 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

BNC generation fails when compiling a safety project (or opening SD) that contains additional configurations with at least one referenced hardware configuration

If a referenced hardware configuration is used in a project, then the build is aborted with error message "../BusNavigator.bnc: Error 9827: Generation of bus navigator source file failed."

The reason for this is missing support in the BNC generator.

Workaround

Do not use referenced hardware configurations.

ID#400117514 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.28 SP0x

Error calculating the domain gateway module ID if there are at least two SL-to-SL connections to the project SL and an I/O module is deleted/disabled

If a safety project with at least two SL-to-SL connections to the project SL is built and then I/O modules are deleted, then an error calculating the domain gateway module ID results in an error where the second SL-to-SL connection receives the same domain gateway module ID as the safe module ID of an I/O module. This causes the I/O module to no longer be shown in SafeNAVIGATOR.

ID#400114582 : solved problem, known since V3.00.90.26 SP0x, solved since V3.00.90.27 SP0x

If configurations are referenced, BCN generation doesn't work with iCN connections.

If building a project that contains at least one SL controller and one iCN connection to another configuration that is referenced instead of being directly in the project directory, then the Hardware.hc file is not found during BNC generation.

ID#400094047 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Parameters for modules that have the "Freeze" flag set are still read from the current hardware description file.

If SafeDESIGNER is open for a project containing safe hardware modules that have been frozen to a particular version, then the "freeze" condition does not prevent the parameters from still being read from the current hardware description file.

ID#400092033 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

If the I/O mapping file consists of multiple "mapping sections", then only the variables from the first section are added to the BNC file.

This problem occurs when the I/O mapping file contains multiple VAR_CONFIG ... END_VAR sections. In AS this can happen when a block comment is added to the mapping definition.

Workaround:

The problem can be avoided by ensuring that there is only one VAR_CONFIG ... END_VAR section.

ID#400085701 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

When converting from AS 3.00.81 to AS 3.00.90.20 the SDG channels of a SL to SL configuration are reversed, which results in AS and SafeDESIGNER each having a different "ChannelCRC".

In AS 3.00.81 the SDG channels are generated in the order in which they were defined in AS. i.e. with increasing SDG number.

For example, if the SL with ID 100 is connected to Connection 1 and the SL with ID 3 is connected to Connection 3, then the order of the SDG channels in the project will be SLId 100 followed by SLId 3.

In the BNC file it would look like this:

```
<Channel ID="SL100_SafeBOOL" Type="BOOL" Direction="OUT" ...../>
```

```
<Channel ID="SL3_SafeBOOL" Type="BOOL" Direction="OUT" ...../>
```

If you then convert to AS 3.00.90.20, these channels are incorrectly sorted according to SLId and SMId.

The resulting order in the BNC:

```
<Channel ID="SL3_SafeBOOL" Type="BOOL" Direction="OUT" ...../>
```

```
<Channel ID="SL100_SafeBOOL" Type="BOOL" Direction="OUT" ...../>
```

The resulting "ChannelCRC" in SaveDESIGNER is different than the one in AS.

The "ChannelCRC" generation in AS correctly uses the SDG as the sorting criteria, so there is an error for the SL during the CRC comparison.

Tools – Generate Transfer List

ID#400086885 : solved problem, known since V3.00.90.18, solved since V3.00.90.22 SP0x

The option to transfer only software objects that do not yet exist on the target is not applied to the Runtime Utility Center transfer list.

ID#400081720 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

When creating a CF for a PP100 terminal, the Automation Runtime Version from the main CPU is always used.

Tools – Import Fieldbus Device

ID#400114265 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.28 SP0x

Incorrect length of I/O data points for POWERLINK XDD import

If an XDD file containing objects related to a structure declaration with a length of 3 bytes is imported, then 4 bytes are written/read for this object on the POWERLINK bus.

ID#400086340 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

Missing object data type crashes the XDD import

If no data type attribute was assigned to an object in the object directory, this crashed the import component. The XDD could then no longer be imported.

ID#400076841 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

XDD file containing object without objFlags attribute may result in invalid import

For device specific objects without an objFlag attribute definition the internal value defaults to 0 by mistake. Further this default value meets the condition from the XDD specification that the default value from objects with PDO mapping "no" must not be imported in this case.

ID#400130252 : new function since V3.00.90.30 SP0x

Support for optimizing the latency time for imported POWERLINK devices

The latency time can now also be optimized for POWERLINK devices imported using XDD files.

ID# 400098816, 400119786 : new function since V3.00.90.28 SP0x

Importing PROFIBUS device descriptions from Revision 5 on

Importing PROFIBUS device descriptions from Revision 5 on is not supported by Automation Studio.

Attempting to import is aborted with numerous error messages, but the user is not informed about the circumstances.

ID#400077805 : new function since V3.00.90.20 SP0x

Option to configure Hilscher GSD files on netX cards

Tools – Upgrade

ID#400162260 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

Multiple AS instances started when installing a service pack together with hardware upgrades

ID# 400072301, 400072315, 400072408, 400072380, 400077761, 400077771, 400077777, 400077874 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

AS crashes when the Tools / Upgrades dialog box is opened

The reason for this is a faulty XML file on the B&R homepage that is downloaded when the dialog box is opened. This file is checked hourly and regenerated if necessary. The error then no longer occurs. However, if you happen to open the dialog box during this time, Automation

Studio crashes.

Workaround:

Since Automation Studio doesn't automatically re-download this file every time the dialog box is opened, the error appears to occur for longer than an hour. However, the file has probably been repaired in the meantime. You must therefore delete the downloaded file manually so that it is re-downloaded the next time the dialog box is opened. The file can be found in the user's Temp folder, e.g. 'C:\Documents and Settings\<username>\Local Settings\Temp'. You need to delete both files (AddOns.xml and AddOns.zip).

VisualComponents Editor – VC3

ID#400161782 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

VC3 error message "Alarm bit field variable not defined for alarm group 'xxx'" output although this is configured

VisualComponents Editor – VC4

ID#400165078 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

VC4 StatusDatapoint not correctly saved and deleted

Follow-up error A&P 282895 – Converting projects.

Workaround:

- Open the HMI application where the data points are deleted.
- Change the description of the data source so that it's saved.
- Save the project -> Dependencies will be entered correctly.

ID# 400103606, 400108864 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.26 SP0x

VC3 – QVGA AlphaPad not working

ID# 400105309, 400106238, 400107384, 400108809, 400108915, 400111241, 400111389, 400112558, 400113250 : new function since V3.00.90.28 SP0x

Data sources not being sorted automatically

ID#400112061 : known problem since V3.00.90.24 SP0x

Support for UXGA resolution

Workspace – Common

ID#400145057 : solved problem, known since V3.00.90.30 SP0x, solved since V3.00.90.32 SP0x

Possible to open AS 4.x projects with AS 3.x

Automation Studio 3.x allows the opening of projects made in versions later than AS 3.x. If this is done, the program crashes.

ID#400129674 : solved problem, known since AS4.0.17 SP, solved since V3.00.90.32 SP0x

Changeover times for standard and daylight savings time incorrect for Melbourne/Australia

ID#400106496 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.25 SP0x

Error message when opening the online settings editor in projects running on a virtual drive

Mapping a project to a drive (e.g. A:) causes an error when opening the online settings editor.

ID#400095925 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.25 SP0x

The menu options and buttons Edit / Undo and Edit / Redo are always enabled.

ID#400102706 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.25 SP0x

Incorrect program context when opening a C source file in monitor mode

When opening C programs in monitor mode, the program context may be set incorrectly. This program context can be corrected afterward. This error does not occur if a C program is opened before turning on monitor mode.

ID# 400096259, 400098354 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

In the text editor, the tooltip for enumerators shows an incorrect value.

ID#400081440 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

If the Automation Studio Logical View contains more than one visualization application, then searching in files causes Automation Studio to crash.

AS only crashes when the VC editor is open.

ID#400042825 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Configuring the default online connection settings can cause the transfer process to terminate unexpectedly when using remote PVI.

When connecting to the target system via remote PVI, depending on the contents of the Automation Studio project, the transfer of the application to the target system is terminated without an error message. The cause for this are the default parameters selected when configuring the online connection. The value in the "Client timeout" column for the remote connection in the online settings editor is set to a default of 10. This value is too small under some circumstances. If you enter a larger value (e.g. 50) or 0, the error no longer occurs.

ID#400079565 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.20 SP0x

Online connection can't be established when the project name contains a space.

When an Automation Studio project with one or more spaces in the project name is opened, an online connection can't be established. There is no workaround for this error.

ID#400080482 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

Entering DEL in the search field in the toolbar deletes the selected entry in the workspace.

If the focus is on the field for entering a search term in the toolbar, then entering DEL affects the selected entry in the currently active workspace window.

As a result, the entry selected in the workspace window is deleted.

ID#400079336 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

"Edit", "Zoom" and "Debug" toolbars flicker

If the "Show text labels" option is set for the "Edit", "Zoom" and "Debug" toolbars, then these toolbars begin to flicker. This problem can only be avoided by undocking the toolbars from the Automation Studio window.

ID#400077469 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Automation Studio crashes when you start the "New function or function block" Wizard

If a program or library contains a source file with the same name as the program/library itself, Automation Studio crashes.

ID# 400075518, 400076490, 400076839 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Icons in the toolbar are blurry and illegible

If the Windows control panel is used to enlarge the size of text and other items on the screen to 125% or higher, then the icons in the Automation Studio toolbar become blurry and illegible.

ID#400117991 : new function since V3.00.90.32 SP0x

Project path not checked for valid characters when opening the "CoffeeMachine" sample project

ID#400087164 : new function since V3.00.90.23 SP0x

After "Save project as" the active configuration is lost

If you save a project using "Save project as", then afterward the first configuration is always active.

ID#400123570 : known problem since V3.00.90.27 SP0x

Recurring problem of insufficient UserRAM+REMMEM memory after changing AR version from Q4.02 to R4.02

ID#400115770 : known problem since V3.00.90.26 SP0x

Insert menu option not displayed in text editors

ID#400096914 : known problem since V3.00.90.23 SP0x

Prespecified size of TmpRAM/OS area setting exceeds the checked maximum size

For the X20CP201, X20CP2091 and X20XCC201, the prespecified size of the TmpRAM/OS area setting (306 kB) exceeds the checked maximum size (256 kB). This causes an error message when changing the system software properties on the "Memory" page.

This problem occurs with Automation Runtime A2.33 and higher.

Workaround: Reduce the size to 256 kB.

Workspace – Configuration View

ID#400106916 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.25 SP0x

Automation Runtime <3.00 can no longer be configured in AS 3.0.90.24 SP06 and higher

If an Automation Runtime version < 3.00 is configured in a project, then the dialog box for switching runtime versions cannot be closed.

ID# 400101102, 400100382 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

Additionally supported hardware modules using incorrect firmware version

If safety modules are listed in the list of additionally supported hardware modules, then an incorrect firmware version is used for them when the project is compiled.

ID#400095655 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Error 9218: PLC <Name> can't be loaded

If a configuration's Runtime configuration contains module with no description, then this configuration can't be built.

ID#400087376 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.22 SP0x

Not possible to move a configuration

When you try to move a configuration, an unhandled exception occurs

ID#400085317 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

After "Save project as", the batch settings are lost

If you save a project using "Save project as", then any existing batch build options are no longer set.

Workspace – Export/Import

ID#400128924 : solved problem, known since V3.00.90.28 SP0x, solved since V3.00.90.29 SP0x

Motion upgrades not exported with "Save project as zip"

If certain motion versions are used in a project, their upgrades will not be included in the export when selecting "Save project as zip".

ID#400090628 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

After importing text, the imported file can no longer be deleted

If you import an AS 2.x text export file into an AS 3.x project, then after the import you can't delete the file as long as AS is open.

ID#400095773 : new function since V3.00.90.26 SP0x

Incomplete configuration copy/import with hardware modules in a frozen state

If a configuration containing frozen hardware modules is exported, then necessary associated data is not included when the configuration is re-imported.

This is also the case when copying/pasting this type of configuration.

Workspace – Find/Replace

ID#400094082 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Search results shown twice

If you use referenced files in a project, and their paths contain different capitalization, then the search results from each of these files are shown.

ID# 400086303, 400090308, 400092888, 400096732 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

Changes in a search string are not applied in the Find window. The previous search term remains in the text editor.

ID#400077168 : solved problem, known since V3.00.90.18, solved since V3.00.90.20 SP0x

In an SFC program, "Find in files" doesn't take you to the right position.

ID# 400077021, 400076626, 400079800, 400085083 : new function since V3.00.90.22 SP0x

Find In Files searches files multiple times

If a project contains references to files within the same project, these files are searched multiple times when you use the "Find in Files" function.

Workspace – Localization

ID#400107127 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

Numeric control: "ProgressiveDirect" enumeration value for UpDownMode does not exist in the German AS version.

ID#400089445 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.28 SP0x

German AS: In the button properties, the same parameter is referred to as both "Ebene" and "Level"

ID#400086015 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Typo in the info text in the output window. Only affects the German version.

Workspace – Logical View

ID#400095653 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Undo/Redo data can't be created. Folder or file path too long

When you move an object whose resulting path (including its child objects) would be too long, an error message is generated. The action is not completed and some data is missing.

ID#400089837 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

If multiple external editors are registered for a file, then "Open with..." doesn't work for all files.

If a computer has more than one external program registered for a certain file extension, then this program can't always be opened from within Automation Studio.

ID#400076534 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

The way the scope is changed produces incorrect results

When you change the scope of a declaration file it is switched to the other setting without checking the current status. In other words, if you set the scope of a global declaration file to "Global", its scope is changed to "Restricted".

Workspace – Physical View

ID#400163546 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

Automation Studio crash when importing an ACOPOS drive

ID#400160035 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

8BVS2SAFE1–1 not frozen when adding ACOPOSmulti power inverter with SafeMC if other frozen 8BVS2SAFE1–1 devices in the same configuration

If SafeMC modules (8BVS2SAFE1–1) that are already frozen to a certain version already exist in a project's active configuration, then any additional ACOPOSmulti power inverters with SafeMC (8BVxxxxxDS.xxx–x) that are added do not also freeze the 8BVS2SAFE1–1 modules as would be expected. Warning 30973 is then reported when transferring the project. After installing this service pack, the ACOPOSmulti power inverters with SafeMC whose SafeMC modules were not correctly frozen must be deleted from the project's active configuration and then added again.

ID#400137620 : solved problem, known since V3.00.90.29 SP0x, solved since V3.00.90.31 SP0x

Hardware version not saved in hardware management source file when adding an ACOPOSmulti mit SafeMC device

If a new hardware module is added to Automation Studio, then the version of the hardware module is stored in the hardware management source file (hardware.hc). If a hardware module is frozen, then the hardware data from this frozen version is used in the future. In the case of ACOPOSmulti with SafeMC, this version is not stored in the hardware management source file, however. This results in error messages (error 6850 or 6854) when performing a build of AsHwd and AsFw after freezing the ACOPOSmulti with SafeMC and then installing a newer hardware upgrade.

ID# 400143645, 400147936 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.32 SP0x

ArConfig.rtc file not updated when changing node number of Windows terminal

This change to the node number causes the settings on the Windows terminal to be lost.

ID#400107844 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.26 SP0x

Automation Studio may crash as a result of a memory error when exporting large hardware structures.

There is not yet a correction for this error.

ID#400103456 : solved problem, known since V3.00.90.24 SP0x, solved since V3.00.90.25 SP0x

Long delay times for DTM devices when not able to reach host

If a host name is specified in the online settings that cannot be reached or resolved, then certain actions seem to take a very long time in combination with DTM devices.

ID#400101659 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.26 SP0x

Incorrect version displayed in the module parameter window for frozen hardware modules in some cases

If a hardware module in a project is frozen at a higher version than is installed, then the installed version is shown instead of the frozen version in the module parameter window.

ID#400092727 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.23 SP0x

If more than one Modbus slave CPU in the SDG SL configuration is connected to another configuration, then SL to SL communication doesn't work.

If more than one Modbus slave CPU in the SDG SL configuration is connected to another configuration, then the IP address of the last Modbus slave CPU is used for all SDG connections. As a result, SL to SL communication is no longer possible.

ID#400089259 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

A Modbus slave CPU can't be inserted if it is in a configuration with a PP500.

If you try to insert a Modbus slave CPU on the Ethernet interface, then the third page in the wizard asks you to enter the name of the configuration in which the selected CPU is the main CPU.

At this point, if you select a configuration with a PP500, then the bottom combobox doesn't show an Ethernet interface, even if it is configured correctly for Modbus.

This mechanism works fine for CPUs other than the PP500.

ID#400085322 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.21 SP0x

AS crashes when you freeze an ACOPOSmulti inverter with SafeMC

When an ACOPOSmulti inverter with SafeMC is inserted in a project, then the Physical View doesn't show the versions of the ACOPOSmulti or SafeMC module. If you then freeze the ACOPOSmulti, Automation Studio crashes. Automation Studio also crashes if the active configuration already contains a frozen ACOPOSmulti inverter with SafeMC and another ACOPOSmulti inverter with SafeMC is inserted.

ID#400081014 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Inconsistencies in the hardware configuration can result in modules on the X2X bus being deleted when an X2X module is inserted.

This problem only occurs in one particular Automation Studio project.

On the X2X there are X67 modules that are preceded by a gap in the station numbers.

This is not permitted, since X67 modules are numbered sequentially on the X2X bus.

There are two ways to work around this problem and restore the consistency of the hardware structure:

1) Insert a dummy X20 module in front of the two X67 modules (at the position of the X67 module with station number 60). This shifts the station numbers, and the dummy can then be removed.

2) Delete and reinsert the X67 module with station number 60. This also shifts the station numbers.

ID#379370 : known problem since V3.00.90.28 SP0x

Froozen usbms module cannot be unfroozen

ID#400106581 : known problem since V3.00.90.24 SP0x

Incorrect version displayed in the module parameter window for frozen hardware modules in some cases

If a hardware module in a project is frozen at a higher version than is installed, then the installed version is shown instead of the frozen version in the module parameter window.

ID#400103265 : known problem since V3.00.90.23 SP0x

Unable to open SafeDesigner from AS

If a project contains defective or incomplete data in its safety modules or associated safety projects, then it is not possible to open SafeDesigner directly from AS.

Workspace – Project Converter

ID#400169592 : solved problem, known since V3.00.90.32 SP0x, solved since V3.00.90.33 SP0x

Converting projects from AS 2.7 to AS 3.x not completing

When converting a project with encrypted ANSI C source files, the conversion is aborted and no longer responds.

ID#400102027 : solved problem, known since V3.00.90.18, solved since V3.00.90.24 SP0x

Converting an AS 2.x (SG3) project to AS 3.0.90.18 changes values in acp10cfg – Error 10522.

If an AS 2.x SG3 project is converted to an AS 3.0.90.x project, then some values in the Acp10 configuration are not applied correctly.

Workspace – Save Project As Zip

ID#400122484 : solved problem, known since V3.00.90.27 SP0x, solved since V3.00.90.28 SP0x

"Save project as .zip" returning errors on manual selection

If a project is exported as a .zip file in manual mode, then an error occurs when deselecting references.

ID#400099124 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

AR upgrade for an X20CPx48x-1 missing when exporting a project as a ZIP file

When you export a project as a ZIP file, an AR upgrade for an X20CPx48x-1 CPU is not exported along with the project.

ID#400084454 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.23 SP0x

Save Project As Zip doesn't work for referenced configuration

If a project contains a configuration as a reference and its source can't be found, then this project can't be saved using "Save Project As Zip".

ID#400092231 : solved problem, known since V3.00.90.21 SP0x, solved since V3.00.90.23 SP0x

Automation Runtime upgrade for APC810 not saved when you "Save project as ZIP".

ID#400085459 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

"Resolve references" option doesn't work for files in the Configuration View

References in the Configuration View are not included in the export when the "Resolve references" option is selected.

ID#400088350 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Project can't be saved as a zip file if there are "missing" *.sw files

If a project contains a *.sw file whose source doesn't exist, then the project can't be saved as a zip file.

ID#400077187 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

"Save project as Zip" doesn't save VCShared folder when "Resolve references" option is enabled

If you save a project using "Save project as zip" or "Save project as zip without upgrades" and enable the "Manual" and "Resolve references" options, then VC objects are not all saved in the zip file.
The VC shared folder is missing.

ID#400076486 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Save project as .zip doesn't work

If one of a project's configurations contains a VC Terminal module "4PP420.1043.K52t", then the project can't be saved as a .zip file.

Workspace – Setup

ID#400154448 : solved problem, known since AS3.0.90 SP01, solved since V3.00.90.33 SP0x

VNC viewer: Support for WQVGA (480 x 272) and WSVGA (1024 x 600) resolutions for the Power Panel T-Series.

ID#400141340 : solved problem, known since V3.00.90.30 SP0x, solved since V3.00.90.33 SP0x

POWERLINK: Switch to Basic Ethernet of ICN at fail of MN

For POWERLINK ICN a switch to basic ethernet mode was build it, so that after a fail of the POWERLINK MN the ICN station could communicate by standard ethernet. In the POWERLINK Standard this state change is not described yet. Now this feature hat to be enabled explicitly therefore the standard behavior of ICN conforms to the POWERLINK specification.

ID# 400116142, 400120141, 400125086 : solved problem, known since V3.00.90.29 SP0x, solved since V3.00.90.30 SP0x

POWERLINK node number setting "Get from hardware" not working

The POWERLINK node number setting "Get from hardware" causes unexpected behavior. The node number received is always 0, and various warnings are output to the logger.

ID#400095089 : solved problem, known since V3.00.90.22 SP0x, solved since V3.00.90.24 SP0x

Configuration file for safety release not provided in AS SP

ID#400084460 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Display error in the key mapping for various PP65 devices

For the following devices, there is an error displaying the VC key mapping in Automation Studio:

- 4PP065.0351–P74
- 4PP065.0571–P74
- 4PP065.0571–P74F
- 4PP065.0571–X74F

ID#400076693 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Lack of exception handling when setting registry entries after registering a component during installation of Automation Studio.

In order to support parallel installation of multiple versions of Automation Studio, some keys created by Automation Studio must be modified during installation.
The exception was triggered by access to a key without the necessary read authorization.
Attempts to access keys without the necessary authorization are now ignored.

Workspace – Startpage

ID#400082784 : solved problem, known since V3.00.90.18, solved since V3.00.90.21 SP0x

In the maintenance edition of Automation Studio you can create a new project from the start page, although that shouldn't be possible in this edition.

1A4000.02 Visual Components

SG3 Compiler

ID# 400070358, 400073822 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.22 SP0x

In certain projects, enabling cross-compile results in Error 7900.

SG3 Editor

ID#400082169 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

AS crashes when a button with a bitmap is copied in the VC3 editor

ID# 400067026, 400071283 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

VC3 application can't be opened if the user name contains Cyrillic characters

ID# 400073633, 400082385 : solved problem, known since V3.00.80.09, solved since V3.00.90.24 SP0x

Problem compiling constants in VC3

Array member variables that are defined with a constant and used in VC3 can't be compiled.

SG4 – Common

ID# 400088065, 400101887 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.24 SP0x

Correction regarding "AlphaPad QVGA" touch pad in the "BR_Default_QVGA" template

SG4 Compiler

ID#400061159 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.90.24 SP0x

In case of name changes of Pages, changes were not applied to target.

Bug located and fixed.

ID# 400061159, 400102463 : solved problem, known since V3.00.90.23 SP0x, solved since V3.00.90.24 SP0x

In case of name changes of Pages, changes were not applied to target.

Bug located and fixed.

ID#279308 : solved problem, known since V3.00.90.17, solved since V3.00.90.20 SP0x

Build time for text groups optimized.

ID# 400075792, 400076222, 400077748, 400077891 : solved problem, known since V3.00.90.18, solved since V3.00.90.19 SP0x

Visualization objects can't be translated with GCC 2.95.3 if the project path contains a space.

SG4 Editor – Common

ID#400083435 : solved problem, known since VC 3.95.3, solved since V3.00.90.21 SP0x

Automation Studio crashes when you copy languages using Ctrl + C / Ctrl + V

ID#400080527 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.21 SP0x

Error converting Visual Components data points from Automation Studio 2.7 to Automation Studio 3.0.90

ID# 400081749, 400081606 : solved problem, known since VC 3.95.3, solved since V3.00.90.20 SP0x

Problem with path forming from structures fixed.

ID#400075880 : solved problem, known since V3.00.90.19 SP0x, solved since V3.00.90.22 SP0x

Fixed a problem when changing of the station number.

ID#400076137 : solved problem, known since VC 3.95.0, solved since V3.00.90.19 SP0x

When importing resources, data points on a layer are not imported.

ID# 400061375, 400078107, 400083309, 400087217 : solved problem, known since V3.00.81.23 SP02, solved since V3.00.90.22 SP0x

When you copy text from the properties, the whole text is copied instead of just the current selection.

ID# 400079441, 400078977, 400094005 : new function since V3.00.90.23 SP0x

Icons hard to see

Exclamation marks in data source are difficult to see

ID# 400062342, 400062713, 400062960, 400063419, 400074584 : new function since V3.00.90.19 SP0x

Merging data sources when importing resources

SG4 Editor – PageDesigner

ID# 400086602, 400088464 : solved problem, known since V3.00.90.20 SP0x, solved since V3.00.90.22 SP0x

Error when the movement order is changed for a control on a common layer.

SG4 Editor – Resources

ID#400075323 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.21 SP0x

Retractor character for no reason after refreshing data source.

ID#400074452 : solved problem, known since V3.00.81.27 SP0x, solved since V3.00.90.19 SP0x

Structure array can't be expanded without refreshing the data source

ID#400091640 : known problem since V3.00.90.22 SP0x

Connected array items are disconnected when you "Import from another project" if data points are overwritten.

1A4000.02 Automation Tools**I/O Switchboard**

ID#400083307 : solved problem, known since unbekannt, solved since V3.00.90.21 SP0x

Support for DATE_AND_TIME data type.

Starting with Win IO Version 3.0, the DATE_AND_TIME data type is also supported. Implementation on the I/O switchboard will follow with Version 3.0.3.0001