

Release Note CODESYS V3.5 SP14 Patch 3

24.06.2019

1 Release Notes

Кеу	Summary	Release Note	Component/s
<u>CDS-</u> <u>66217</u>	Update SoftMotion to 4.5.1.0	[[GENERAL]] CODESYS SoftMotion is updated to version 4.5.1.0	CODESYS
<u>CDS-</u> <u>66225</u>	BACnet: CmpBACnet - blocks ASN.1-restore because of unneeded reset of contents.rawbuffer	[[GENERAL]] CmpBACnet - blocks persistence restore because of unneeded reset of contents.rawbuffer	CODESYS
<u>CDS-</u> <u>60637</u>	LibMan: Comments of hidden signatures are stored in browser_cache	[[GENERAL]] For more details see Advisory 2018- 12, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-12_CDS-60637.pdf See also Release Note of CDS-60639.	CODESYS
<u>CDS-</u> <u>60639</u>	Compiled Libraries: Objects with exclude from build produce strings in compiled libraries	[[GENERAL]] For more details see Advisory 2018- 12, which is available on the CODESYS website: <u>https://customers.codesys.com/filead</u> <u>min/data/customers/security/2018/Advi</u> <u>sory2018-12 CDS-60637.pdf</u> [[COMPATIBILITY_INFORMATION- OEM]] Objects which implement ILanguageModelProvider2 and return true for the property	CODESYS

Template: templ_tecdoc_pd_en_V1.0.docx



		NeedsContextForLanguageModelProv ision were so far always included in	
		compiled libraries, independent of the value for the build property "Exclude	
		from build". This behaviour changes from V3.5.14.0 onwards. The object will not	
		be saved in the compiled library anymore. So if any of the information	
		contained in the object is still required to be stored in the compiled library the	
		"Exclude from build" option must not be used anymore for this kind of objects.	
<u>CDS-</u> 61649	Compiled Libs: Path of PrivateKeyFile should not	[[GENERAL]] For more details see Advisory 2018-	CODESYS
	be stored	12, which is available on the CODESYS website:	
		https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-12 CDS-60637.pdf	
CDS-	Scripting:	[[GENERAL]]	CODESYS
62023	Support setting of the initial password for the	A script device user (IScriptDeviceUser2) offers a new	
	online user management	method set_user_flags(DeviceUserManageme ntFlags) to set user flags.	
		nit lags/ to set user hags.	
<u>CDS-</u> 62220	Compiler: FB_init is not called for	[[COMPATIBILITY_INFORMATION- EndUser]]	CODESYS
	function block instances declared inside a method	In Compilerversion $>= 3.5.14.0$ the FB_Exit method is not called anymore	
	as VAR_INPUT	for function block instances on the stack declared in VAR_INPUT	
000	V :	sections. This is the consequence of FB_Init not having been called either.	000501/0
<u>CDS-</u> 8972	Visu: Make radius for roundedrectangle variable	[[COMPATIBILITY_INFORMATION- EndUser]] To improve the look of round	CODESYS
	Touridedreetangle variable	rectangles to what users expect from this element the optical behaviour of	
		such newly inserted elements is changed when visualization styles >=	
		3.5.14.0 (by 3S-Smart Software Solutions GmbH) are used.	
		Using these style versions newly	



		inserted elements "Round rectangle" will now use a radius for the corners that is independent of the size of the element. With the visualization style entry "Element-RoundRect-Radius" (integral value) the radius of the round rectangles can be set. With the value - 1 the previous behaviour "radius ralative to the element size" can be established.	
		[[GENERAL]] The radius of round rectangles is configurable starting with Visu-Profile 3.5.14.0 when no targetvisu is used or a device version of at least 3.5.14.0 is used.	
<u>CDS-</u> <u>14719</u>	OPC UA: Support of complete access to complex types	 [[GENERAL]] With this feature access to complex datatypes are possible now wuth the OPC UA server. This means access to arrays, structures and combinations is possible now for browsing, reading and writing. Access to the following datatypes are not supporte: Since Pointers and Interfaces don't have an equivalence in OPC UA structures, containing pointers and interfaces cannot be encoded using OPC UA POUs like function blocks, programs etc. cannot be added to OPC UA data types. These objects of the IEC are translated to OPC UA objects by the OPC UA Information Model for IEC 61131-3. Since data types cannot contain objects, it is not possible to add this objects to data structures. The same applies for references to POUs Invalid references cannot be read or written 	CODESYS Control



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<u>CDS-</u> <u>58896</u>	Trace: Faulty configuration leads to disconnection	[[GENERAL]] For more details see Advisory 2018- 07, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-07_CDS-58896.pdf	CODESYS Control
<u>CDS-</u> <u>60870</u>	RETAIN-Data: Inconsistent behaviour of RETAIN an RETAIN PERSISTENT variables	[[COMPATIBILITY_INFORMATION- OEM]] Be aware, that with the following setting in cfg-file the RETAIN-Data are initialized now after loading from bootproject: [CmpApp] RetainType.Applications=None So the RETAIN-data has the same values as after a download of the application!	CODESYS Control
<u>CDS-</u> <u>61037</u>	Security features are not activated by default	[[GENERAL]] For more details see Advisory 2018- 10, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-10_CDS-61037.pdf Information on how to use encrypted communication and online user management can be found in the CODESYS help.	CODESYS Control
<u>CDS-</u> 61845	BACnet: BACnet for VxWorks	[[GENERAL]] VxWorks 6.9 is added to the platforms CODESYS BACnet can be used with.	CODESYS Control
<u>CDS-</u> <u>61893</u>	SysSocket2 (TLS): SysSock2Accept may be blocked by client even if server socket is non blocking	[[GENERAL]] For more details see Advisory 2018- 08, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-08_CDS-61893.pdf	CODESYS Control

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CDS-	SecurityManager:	[[COMPATIBILITY_INFORMATION-	CODESYS Control
<u>61927</u>	Runtime preperations for security by default	OEM]] Interface of the CmpSecurityManager has changed! We need the name of a security setting additionally to an ID and so the following interfaces in CmpSecurityManagerItf.h has changed:	
		RTS_HANDLE CDECL SecManRegisterSettings(CMPID cmpld, RTS_UI32 ui32UsageID, SecuritySetting *pSettings, RTS_UI32 ui32Settings, RTS_RESULT *pResult) ==>RTS_HANDLE CDECL SecManRegisterSelectableSetting(CM PID cmpld, const char *pszKey, const char *pszDescription, const char *pszDefaultSecName, const SecuritySelectableSetting *pList, RTS_UI32 ui32Settings, RTS_RESULT *pResult)	
		RTS_HANDLE CDECLSecManRegisterEditableSettin g(CMPID cmpId, RTS_UI32 ui32UsageID, SecurityEditableSetting *pSetting, RTS_RESULT *pResult) ==>RTS_HANDLE CDECL SecManRegisterEditableSetting(CMPI D cmpId, const char *pszKey, const char *pszDescription, SecurityEditableSetting setting, RTS_RESULT *pResult)	
		RTS_RESULT CDECL SecManUnregisterSettings(RTS_HAN DLE hSecuritySettings) ==>RTS_RESULT CDECL SecManUnregisterSetting(RTS_HAND LE hSecuritySettings)	
		Functions to read the appropriate setting: const SecuritySelectableSetting * CDECL SecManGetSelectableSetting(RTS_H ANDLE hSecuritySetting,	



		RTS RESULT *pResult)	
		SecurityEditableSetting * CDECL SecManGetEditableSetting(RTS_HAN DLE hSecuritySetting, RTS_RESULT *pResult)	
<u>CDS-</u> <u>62714</u>	WinCE / Build: F10 Merge the Jinja templates for HMI VC project files and run-time VC project files	[[COMPATIBILITY_INFORMATION- OEM]] The executable of the HMI runtime system is now called "CODESYSControl.exe" just like the PLC runtime system.	CODESYS Control
		Background: We are now building all runtime systems for the Windows CE platform with the same VC project. The result differs only in the features selected in the configuration of the device.	
<u>CDS-</u> <u>62811</u>	Use of weak numbers for communication identifiers	[[GENERAL]] For more details see Advisory 2018- 13, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-13_CDS-62811.pdf	CODESYS Control
<u>CDS-</u> <u>62812</u>	Insufficient verification of sender address during routing	[[GENERAL]] For more details see Advisory 2018- 14, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-14_CDS-62812.pdf	CODESYS Control
<u>CDS-</u> <u>62188</u>	OPC UA: Port 4840 down on CmpBlkDrvTcp stress test	[[GENERAL]] For more details see Advisory 2018- 11, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-11_CDS-62188.pdf	CODESYS Control, Gateway Server, OPC Server, PLC Handler



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CDS- 42362	EL6751: Support 29bit CAN frames	[[COMPATIBILITY_INFORMATION]] - The new EL6751 CAN Mini Driver device does only work with runtime component >= 3.5.14.0. For older runtime versions use old device description. - Network ID is not editable anymore. It will be automatically selected. - Due to a bug in EtherCAT update mechanism (RC-8401) update device on EL6751 device does not work correctly. Workaround: add new EL6751 and copy/paste children.	CoDeSys Control, Libraries
<u>CDS-</u> <u>59951</u>	PLCHandler: Support standard V3 monitoring services	[[GENERAL]] With this new feature the PLCHandler is able to access data of the following IEC 61131-3 standard data types using CmpMonitoring2 services: - All integer data types (SINT, USINT, , LINT, ULINT, BYTE, WORD, DWORD, LWORD) - All floating point data types (REAL, LREAL) - All string data types (STRING, WSTRING) - All time data types (TIME, TIME_OF_DAY, DATE, DATE_AND_TIME, LTIME) - Boolean datatype (BOOL) - Arrays of the standard datatypes above Arrays are limited to 3 dimensions. Arrays may accessed as complete object or element by element. With complex data types such as structures, unions, function blocks only the members of the standard datatypes above are accessbile, no complete access is available The following data types should NOT be supported: - Pointers - References (including VAR_IN_OUT variables of function blocks) - Properties - Bits	CODESYS, CODESYS Control



		 Subrange types (They are not supported by the PLCHandler at all, see CDS-54108) [[COMPATIBILITY_INFORMATION-OEM]] BigEndian targets are not supported yet by this feature! 	
<u>CDS-</u> <u>62131</u>	Visu, Alarms, HMI: Viewing historic alarms cause a runtime freeze	[[GENERAL]] The fix will only be effective if the compiler version used in the CODESYS projects is updated to a version >= 3.5.14.0 (library is linked to compiler version). For more details see Advisory 2018- 09, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2018/Advi sory2018-09_CDS-62131.pdf	Libraries



<u>CDS-</u> <u>64587</u>	WebVisu: Specific request crashes WebServer with an exception	[[GENERAL]] For more details see Advisory 2019- 01, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2019/Advi sory2019-01_CDS-64543.pdf	CODESYS
<u>CDS-</u> <u>63509</u>	Compiler, DevApp: Persistent variable configuration is lost after import	[[GENERAL]] Applications which are removed are not automatically deleted from the persistent variable configuration anymore. Instead a new button is available which can be used to clear unknown or deleted applications manually from the persistent variable configuration.	CODESYS
<u>CDS-</u> 64700	WebServer: Specific directory traversal access possible	[[GENERAL]] For more details see Advisory 2019- 01, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2019/Advi sory2019-01_CDS-64543.pdf	CODESYS Control



<u>CDS-</u> <u>63430</u>	Webvisu: Multitouch does not work in 63 Firefox due to pointerevents	[[KNOWN_LIMITATIONS]] This issue fixes the problem that clicks were executed twice in Firefox when multitouch-handling is active. Real multitouch operation (eg. zooming in XY-Chart, parallel operation of scrollbars) within Mozilla Firefox does not work due to an outstanding bug within Mozilla Firefox: https://bugzilla.mozilla.org/show_bug.c gi?id=1505321 If real multitouch handling is necessary within Mozilla Firefox, a wokaround can be activated by adding the following suffix to the URL of the webvisu: ?CFG_WorkaroundDisablePointerEve nts=True	Web Visualization
CDS- 65655	Gateway: GatewaySession could be hijacked	[[GENERAL]] For more details see Advisory 2019- 02, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2019/Advi sory2019-02_CDS-65123.pdf	Gateway Server
<u>CDS-</u> <u>65656</u>	Gateway: Channel number uses insufficiently random values	[[GENERAL]] For more details see Advisory 2019- 02, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2019/Advi sory2019-02_CDS-65123.pdf	Gateway Server



<u>CDS-</u> <u>65657</u>	Gateway: Insufficent check of service header	[[GENERAL]] For more details see Advisory 2019- 03, which is available on the CODESYS website: https://customers.codesys.com/filead min/data/customers/security/2019/Advi sory2019-03_CDS-64208.pdf	Gateway Server

2 Known Limitations

RX6 platforms

No runtime and compiler tests have been carried out for RX6 platforms. Please contact your account manager for more information.

TI DSP platforms

Runtime doesn't work on TI DSP platforms and no tests have been carried out for the current version. Please contact your account manager for more information.

KNX on Linux x64

KNX doesn't work yet on 64bit Linux Platforms



3 OEM information from JIRA

To read up on implemented features and changes you can use your JIRA account. Please find some **example** filters below.

List of features and changes:

fixVersion = "V3.5 SP14 Patch 3"

fixVersion = "V3.5 SP14 Patch 3" AND issuetype = "New Feature"

List of features and changes since CODESYS V3.5 SP14:

fixVersion in ("V3.5 SP14", "V3.5 SP14 Patch 1", "V3.5 SP14 Patch 2", "V3.5 SP14 Patch 3")

List of issues with compatibility information and known limitations:

fixVersion in ("V3.5 SP14", "V3.5 SP14 Patch 1", "V3.5 SP14 Patch 2", "V3.5 SP14 Patch 3") AND (text ~ COMPATIBILITY_INFORMATION OR text ~ KNOWN_LIMITATIONS)

4 History

Created:	Rico Ottliczky (Quality Assurance)
Reviewed:	Peter Zenker (Quality Assurance)
Released:	Peter Zenker (Quality Assurance)