

Release Note CODESYS V3.5 SP18 Patch 5

03.05.2023

1 Release Notes

Key	Summary	Release Note	Component/s
CDS-81452	CmpBlkDrvTcp: Possible socket blocking DoS vulnerability	[[GENERAL]] For more details see Advisory 2022-09, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=17128&token=bee4d 8a57f19be289d623ec90135493b5f9179e3 &download=	CODESYS Control
CDS-81453	Runtime: Possible channel blocking DoS vulnerability	[[GENERAL]] For more details see Advisory 2022-09, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=17128&token=bee4d 8a57f19be289d623ec90135493b5f9179e3 &download=	CODESYS Control
CDS-81306	OPC Server: Secure password used for PLC login	[[GENERAL]] For more details see Advisory 2022-10, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=17129&token=1c148 5c4a700c04f2069699f5be7558d276ca117 &download= [[COMPATIBILITY_INFORMATION]] See manual of the CODESYS OPC DA Server, section OPC Config Tool, to learn more about compatibility and restrictions.	OPC Server, PLC Handler
CDS-56565	UTF-8 Encoding for STRINGs	[[GENERAL]] There is now a compiler option to change the encoding of the data type STRING. With the option checked, a STRING will be interpreted as encoded in UTF-8. I.e. any	CODESYS



		STRING literal 'asdf' will be encoded in UTF-8. Monitoring of STRING will decode STRING-values from UTF-8. Alternatively it is possible to mark only specific string literals as UTF-8. This is accompanied by new monitoring attributes to have a strings content monitored as UTF-8 explicitly.	
		The Static Analysis Light and the compiler also have additional checks and rules for detecting cases where the new UTF-8 option should be enabled. They also have new checks for strings operations which might only work on ASCII strings but not on UTF-8 strings anymore.	
CDS-63824	Setup: Uninstallation should delete installation folder	[[GENERAL]] New property CDS_DELINSTALLDIR can be set at installation 1=Delete the destination folder INSTALLDIR at uninstall (Default) 0=Do not delete destination folder INSTALLDIR at uninstall If INSTALLDIR is not a subfolder of ProgramFiles or ProgramFiles(x86), INSTALLDIR is not deleted regardless of CDS_DELINSTALLDIR For more information see the documentation "CODESYS Installation OEM Adaptations" and "CODESYS Installation Extended OEM Adaptions"	CODESYS
CDS-65416	AP-UserManagement: Group derivation does not work	[[GENERAL]] As the "group in group" concept was removed from the runtime with CDS-65415, the possibility to configure having a group within a group was also removed from the IDE. So now a group will only contain users as members.	CODESYS
CDS-71854	Package Manager: Check Dependencies always	[[GENERAL]] Dependencies (MinimumPlugin, MaximumPlugin or MinimumProfile) will now be evaluated independently from the package's content. In previous version	CODESYS



		these depenencies were only be checked if there is a profile relevant content include	
		(ProfileChange, AddMenuConfiguration, AddToolBarConfiguration,).	
		[[COMPATIBILITY_INFORMATION]]	
		If these dependencies has been used without any profile relevant content the installation will fail now.	
CDS-77156	BinaryFormatter: Vulnerability caused by deserialization of untrusted culture settings	[[GENERAL]] For more details see Advisory 2021-13, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16805&token=ee583 c498941d9fda86490bca98ff21928eec08a &download=	CODESYS
CDS-77163	AccessDenied exceptions during setup or CODESYS startup	[[GENERAL]] ShadowCopy was deactivated for the executables CODESYS, PackageManager, PackageManagerCLI and IPMCLI Every call to one of this executables will result in a selfcall to the same executable, in which the called function is executed. In the wrapping call all files which need to be copied are copied after the inner call finished execution. If an error occurs during the copy operations a rollback is performed. If this rollback is not possible or fails, the installation will be marked as corrupted and a reinstall will be required.	CODESYS
		[[COMPATIBILITY_INFORMATION-OEM]]	
		Having removed the .Net Shadow Copy mechnism may lead to access denied exceptions within OEM code trying to overwrite assemblies that are currently loaded. This may occur with OEM plugins running in a standard CODESYS executable during installation of plugins or packages via Autmation Platform API. Not affected are custom OEM executables still having .Net Shadow Copy active and installations via PackageManager or IPM executables.	0005040
CDS-77324	Compiler, Download: Erroneous behavior after	[[GENERAL]] Compiler Version >= 3.5.18.0	CODESYS
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	download regarding variable values	The compiler calculates the result of constant expressions during compile time. The fix may lead to different calculations, and this can lead to a different behavior of the application. Especially in cases, where intermediate results of the calculation exceed the type Range of some of the constants in the expression. The Compiler now calculates the expression as LINT-expression or ULINT-expression and casts the result as used in the expression. In this case a complex expression is evaluated the result is cast to LINT and assigned to an LINT.	
CDS-77359	BinaryFormatter: Vulnerability caused by deserialization of untrusted profile data	[[GENERAL]] For more details see Advisory 2021-13, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16805&token=ee583 c498941d9fda86490bca98ff21928eec08a &download=	CODESYS
CDS-77364	BinaryFormatter: Vulnerability caused by deserialization of untrusted data in the package management	[[GENERAL]] For more details see Advisory 2021-13, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16805&token=ee583 c498941d9fda86490bca98ff21928eec08a &download=	CODESYS
CDS-77365	BinaryFormatter: Vulnerability caused by deserialization of untrusted "MissingTypes" data	[[GENERAL]] For more details see Advisory 2021-13, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16805&token=ee583 c498941d9fda86490bca98ff21928eec08a &download=	CODESYS
CDS-78280	Menu PackageManager should be replaced by Installer	If an CODESYS Installer with a version equal or higher than 1.2.0 is installed, the menu entry Tools -> PackageManager is replaced with Tools -> CODESYS Installer Instead of the PackageManager this new entry will open the CODESYS Installer to manage the packages of the current installation. A new Customization Hook was	CODESYS



		introduced ("Deckeral Management"	
		introduced ("PackageManagement",	
		"DoNotUseInstaller"), if set to true the	
		PackageManager entry will be used even	
		if the CODESYS Installer is installed in a	
		version higher or equal to 1.2.0	
CDS-78571	Package import from	[[GENERAL]]	CODESYS
	previous installation		
	breaks package signature	Packages have been removed from the	
		import assistent. Packages can be easily	
		installed via CODESYS Installer.	
		Furthermore required Packages (Add-ons)	
		will be checked during project analysis	
		during project load.	
CDS-79032	ProjectSource: Creating a	[[COMPATIBILITY_INFORMATION-	CODESYS
	new project as library will	OEM]]	
	result in a project		
		The methods Engine.CreateProject()	
		always change the file extension always to	
		".project" but now it only does it if the file	
		extension is different to ".library".	
CDS-80861	Project open is not	[[GENERAL]]	CODESYS
	possible on Win8.1 32bit		
		Since the market share of Windows 8.1 is	
		relatively small and a simple fix exists, the	
		issue is not resolved.	
		Installing .Net Framework 4.7.2 or 4.8 will	
		fix this issue.	
CDS-31565	CmpDevice: Multisession	[[COMPATIBILITY_INFORMATION-	CODESYS Control
	management needed	OEM]]	
		The CODESYS Control runtime now	
		supports more than one session on a	
		channel. This allows the CODESYS	
		Webvisu to authenticate multiple sessions	
		independently on a single communication	
		channel. As a result, there is no longer a	
		strict 1:1 mapping between session and	
		communication channel in the CODESYS	
		protocol.	
		Annualinate that the	
		Accordingly, the functions	
		DevGetSessionId() and	
		ServerGetSessionId(), which provided the	
		associated session for a channel, can no	
		longer be implemented in a meaningful	
		way and have therefore been removed	
		completely.	
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		At the same time, new events were	



	does not work	As the group in group was never	
CDS-65415	UserMgr: Group derivation for rights check	[[GENERAL]]	CODESYS Control
00000		lecVarAccInvalidateVar()	0005000
		IecVarAccGetNextVar()	
		IecVarAccGetFirstVar()	
		lecVarAccRemoveVar()	
		lecVarAccAppendVar()	
		lecVarAccVarListGetFlags()	
		lecVarAccDeleteAllLists()	
		lecVarAccDeleteVarLists()	
		lecVarAccDeleteVarList()	
		lecVarAccCreateVarList()	
		In addition, the following functions were incompatibly adapted and thereby removed from the interface of the CmplecVarAccess component, as they were intended for internal call only:	
		used here instead to get the SessionID directly as an event parameter. With other words, the EVT_DevSSessionDeleted replaces the previous combination of EVT_ChSChannelClosed and the extra call of DevGetSessionId()/ServerGetSessionId().	
		Since the DevGetSessionId() and ServerGetSessionId() functions were used to retrieve the associated SessionID in the event EVT_ChSChannelClosed, the event EVT_DevSSessionDeleted can simply be	
		LV1_Dev33essionDeleteu	
		EVT_DevSSessionDeleted	
		OpenChannel and CloseChannel events:	
		about significant changes to a session. These are signaled between the existing	



		evaluated by the runtime system this	
		relationship has been removed.	
		Configuration and checking access rights	
		is not easy and strait forward when access	
		rights are derived from on group to	
		another.	
		This removed relation ship has no effect	
		on effective access rights.	
CDS-74959	VxWorks: OPCUA port	[[GENERAL]]	CODESYS Control
	4840 down on stress test		
	(TCP) on another port	For more details see Advisory 2021-10,	
	(101) on another port		
		which is available on the CODESYS	
		website:	
		https://customers.codesys.com/index.php?	
		eID=dumpFile&t=f&f=14806&token=637e1	
		2e86301b83beac1653bd88da3aa5aa3f51	
		b&download=	
CDS-75073	RTS configuration file can	[[GENERAL]]	CODESYS Control
	be modified by malicous		
	IEC code	For more details see Advisory 2022-02,	
	IEC code		
		which is available on the CODESYS	
		website:	
		https://customers.codesys.com/index.php?	
		eID=dumpFile&t=f&f=17089&token=cc504	
		1e24fc744a397a6f6e3b78200a40e6fcd53	
		&download=	
		WOOMBATIBULITY INFORMATIONS	
		[[COMPATIBILITY_INFORMATION]]	
		[[COMPATIBILITY_INFORMATION]]	
		CODESYS Control runtime configuration	
		CODESYS Control runtime configuration files can no longer be accessed through	
		CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other	
		CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries.	
CDS-75246	WebServer: The server	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other	CODESYS Control
CDS-75246	WebServer: The server should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries.	CODESYS Control
CDS-75246	should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]]	CODESYS Control
CDS-75246		CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11,	CODESYS Control
CDS-75246	should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS	CODESYS Control
CDS-75246	should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website:	CODESYS Control
CDS-75246	should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS	CODESYS Control
CDS-75246	should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php?	CODESYS Control
CDS-75246	should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16803&token=0b8ed	CODESYS Control
CDS-75246	should not return the	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a	CODESYS Control
	should not return the content of all files	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download=	
CDS-75246	should not return the content of all files CmpHilscherCIFX /	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a	CODESYS Control CODESYS Control
	should not return the content of all files CmpHilscherCIFX /	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download=	
	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy:	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-	
	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy: Sporadic bus failure	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-OEM]]	
	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy:	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-OEM]] The following events are renamed	
	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy: Sporadic bus failure	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-OEM]] The following events are renamed because of compatibility problems with	
	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy: Sporadic bus failure	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-OEM]] The following events are renamed	
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	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy: Sporadic bus failure	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-OEM]] The following events are renamed because of compatibility problems with 3.5.17.0 CIFX drivers:	
	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy: Sporadic bus failure	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-OEM]] The following events are renamed because of compatibility problems with 3.5.17.0 CIFX drivers: EVT_ID_CMP_PACKET_INDICATION2	
	should not return the content of all files CmpHilscherCIFX / Profinet / Redundancy: Sporadic bus failure	CODESYS Control runtime configuration files can no longer be accessed through CAA File, SysFile, SysFileAsync, or other file access libraries. [[GENERAL]] For more details see Advisory 2021-11, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16803&token=0b8ed f9276dc39ee52f43026c415c5b38085d90a &download= [[COMPATIBILITY_INFORMATION-OEM]] The following events are renamed because of compatibility problems with 3.5.17.0 CIFX drivers:	



		EVT_ID_CMP_PACKET_CONFIRMATIO N2 =>	
		EVT_ID_CMP_PACKET_CONFIRMATIO N3	
CDS-75358	Crash in CmpSettingsSrv when parsing crafted	[[GENERAL]]	CODESYS Control
	request	For more details see Advisory 2022-06, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=17093&token=15cd8	
		424832ea10dcd4873a409a09a539ee381c a&download=	
CDS-76136	VxWorks: OPCUA port 4840 down on max.	[[GENERAL]]	CODESYS Control
	concurrent connection scan	For more details see Advisory 2021-10, which is available on the CODESYS website:	
		https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=14806&token=637e1 2e86301b83beac1653bd88da3aa5aa3f51 b&download=	
CDS-76140	Web server crashes when subjected to HTTP	[[GENERAL]]	CODESYS Control
	header memory exhaustion attack	For more details see Advisory 2021-09, which is available on the CODESYS website:	
		https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=14805&token=f0b86f 99bb302ddd4aadec483aed5f5d3fddbf1a& download=	
CDS-76491	BACnet: CmpBACnet - BACnetOpenClientCusto	[[COMPATIBILITY_INFORMATION]]	CODESYS Control
	mer wrong return type	FUNCTION BACnetOpenClientCustomer wrong return type was changed to IEC BACNET HANDLE.	
CDS-76651	VxWorks: Implement SysSockGetFirstAdapterI	[[GENERAL]]	CODESYS Control
	nfo to support gateway address	Ethernet Adapters may have several default routes. Only first route is displayed.	
		Functionality to read route information of an Ethernet adapter is only supported for VxWorks7 and newer versions.	
CDS-77172	SysDrv3S.sys: Local privilege escalation to	[[GENERAL]]	CODESYS Control
	system level	For more details see Advisory 2022-03, which is available on the CODESYS website: https://customers.codesys.com/index.php?	
		eID=dumpFile&t=f&f=17090&token=6cd08 b169916366df31388d2e7ba58e7bce9350 8&download=	



To make the fix effective, you have to update the SysDrv3S.sys driver to latest V3.5.18.0 manually:

- In the Microsoft Windows Device Manager right-click on the Hilscher device to open the context menu.
- Select Update driver within this.
- Install the driver from the subdirectory "./Driver" of your CODESYS Development System V3 or CODESYS Control installation directory.
- Check the driver version after the update. The driver must have version number 3.5.18.0.

[[COMPATIBILITY_INFORMATION-EndUser]]

The SysDrv3S.sys V3.5.18.0 supports the Hilscher PC fieldbus cards only. Thus, the following hardware can no longer be used with the SysDrv3S.sys driver:

- "SysDrv3S Automata CAN PCI 2N" = SysDrv3S, PCI\VEN_10B5&DEV_9050&SUBSYS_34 551971"
- "SysDrv3S Peak PCAN-PCI" = SysDrv3S, PCI\VEN_001C&DEV_0001&SUBSYS_00 04001C"
- "SysDrv3S Peak PCAN-EXPRESS" = SysDrv3S, PCI\VEN_001C&DEV_0003&SUBSYS_00 02001C"

Please contact the CODESYS support if you need to use this driver with one of the PC fieldbus cards listed above or any other currently unsupported hardware.



CDS-78510	Runtime generates weak	[[GENERAL]]	CODESYS Control
	ChannellDs	For more details see Advisory 2022-04, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=17091&token=c450f 8bbbd838c647d102f359356386c6ea5aec a&download=	
		[[COMPATIBILITY_INFORMATION-OEM]]	
		The obsolete marked function NetServerGetChannelInfoByIndex() was removed completely, use NetServerGetChannelInfoByIndex3() instead. The interface between the CmpChannelClient, CmpChannelServer/CmpChannelServerE mbedded, CmpChannelMgr/CmpChannelMgrEmbed ded components was reworked, especially the L4 packet processing structures were redesigned.	
CDS-78845	CmpUserMgr: anonymous login is still allowed after anonymous	[[GENERAL]] For more details see Advisory 2022-05,	CODESYS Control
	login is deactivated	which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=17092&token=a556b 1695843bb42084dc63d5bdf553ca02ea39 3&download=	
CDS-78898	CmpUserMgr: Relogin should support changing account	[[COMPATIBILITY_INFORMATION]] The behavior of UserMgrRelogin was extended. This function now allows to switch to another user account.	CODESYS Control
		If this is allowed by a session and the session builds up a cache of usernames or access rights itself (instead of using the UserMgr cache) this cache has to be cleaned up.	
CDS-79100	[Remove Product from Setup] [Product discontinuation] Windows CE 5	[[GENERAL]] Win CE5 files are no longer part of PLCHandler SDK.	CODESYS Control
CDS-79444	CmpTraceMgr: Denial of Service vulnerability	[[GENERAL]]	CODESYS Control
		For more details see Advisory 2022-06,	



SysFile.IsConfigFile should check absolute path too	download= [[GENERAL]] For more details see Advisory 2022-02, which is available on the CODESYS	CODESYS Control
	download=	
	For more details see Advisory 2021-12, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16804&token=d8c89 c887979b22fdfc9fd5c3aa3804bbb1ddbff&daystandard	
Gateway: DOS due to null pointer dereference	[[GENERAL]]	Gateway Server
bounds read	For more details see Advisory 2022-07, which is available on the CODESYS website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=17094&token=2fb18 8e2213c74194e81ba61ff99f1c68602ba4d &download=	
Webserver: Possible	BACnet protocol revision 15 behaviour is enabled by setting Device.Protocol_Revision to 15. [[GENERAL]]	CODESYS Control
	CmpBACnet provides compatibility to protocol revision 14 behaviour by mean of setting/keeping Device.Protocol_Revision to 14.	
	most notably BACNET_ENGINEERING_UNITS and IEC_BACNET_STACK_CONTROL_TYPE .	
	BACnet protocol revision 15 forced some API (DUT) extension,	
	·	
V15.0.1.1	BACstack updated to V15 to support	
update BACstack to	a&download= [[GENERAL]]	CODESYS Control
	website: https://customers.codesys.com/index.php? eID=dumpFile&t=f&f=17093&token=15cd8 424832ea10dcd4873a409a09a539ee381c	
	Webserver: Possible crash due to out of bounds read Gateway: DOS due to	https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=17093&token=15cd8 424832ea10dcd4873a409a09a539ee381c a&download= Update BACstack to V15.0.1.1 BACstack updated to V15 to support BACnet protocol revision 15. [[COMPATIBILITY_INFORMATION]] BACnet protocol revision 15 forced some API (DUT) extension, most notably BACNET_ENGINEERING_UNITS and IEC_BACNET_STACK_CONTROL_TYPE . CmpBACnet provides compatibility to protocol revision 14 behaviour by mean of setting/keeping Device.Protocol_Revision to 14. BACnet protocol revision 15 behaviour is enabled by setting Device.Protocol_Revision to 15. [[GENERAL]] For more details see Advisory 2022-07, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=17094&token=2fb18 8e2213c74194e81ba61ff99f1c68602ba4d &download= [[GENERAL]] For more details see Advisory 2021-12, which is available on the CODESYS website: https://customers.codesys.com/index.php? elD=dumpFile&t=f&f=16804&token=d8c89 e887979b22fdfc9fd5c3aa3804bbb1ddbff&



		eID=dumpFile&t=f&f=17089&token=cc504 1e24fc744a397a6f6e3b78200a40e6fcd53	
		&download=	
CDS-81422	Online Manager: Support of UTF-8 passwords	[[COMPATIBILITY_INFORMATION]] If you have only used standard ASCII	CODESYS Control
	·	characters in your passwords in the device user management (az, AZ, 09, special characters like: !#\$&()*-+,%[]/_'^{ }~ ") , nothing changes.	
		In case you have used non standard ASCII character in your passwords in the device user management (German umlauts, Chinese characters, etc.), please consider this compatibility information.	
		In the past CODESYS used a slightly different encoding for the passwords than other clients (e.g. DataSources, PLCHandler). This has now been adapted in CODESYS to the other clients so that one account (user/password combination) can be used across all clients. The newly used UTF-8 encoding for passwords in transmission is only enabled for devices with runtime version 3.5.18.30 or newer.	
		So if you have set a password in a device with runtime version V3.5.18.30 or later with a CODESYS version prior to V3.5.18.30, users who have non-standard ASCII characters in their passwords will not be able to log in with CODESYS V3.5.18.30 or later using their password. The same is true if you download old user management files ("dum2") with non-standard ASCII characters in the passwords to a new device.	
		If you have used non-standard ASCII characters in your passwords, you have to reset the device user management like this: - Use CODESYS <3.5.18.30 - Do a reset origin device with deleting the users and groups - Use CODESYS >=3.5.18.30 to create newly your user management and configure the passwords	
		Alternatively, with a CODESYS version prior to V3.5.18.30, you can change the passwords to use only standard ASCII characters.	



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CDS-82344	CODESYS: Inadequate	[[GENERAL]]	CODESYS
	boot application		
	encryption using Wibu	For more details see Advisory 2022-15,	
	dongle	which is available on the CODESYS	
		website:	
		https://customers.codesys.com/index.php?	
		eID=dumpFile&t=f&f=17350&token=2cee6	
		2285d3ec76d6a78dfa9b9e81e66f6136a2a	
		&download=	
CDS-83511	Sporadically, a new	[[GENERAL]]	CODESYS
	download is necessary	11	
	after project load	Fixed in the Compiler for SP 18 without	
		using the compiler version. So Compiler	
		3.5.18.40 contains the fix for all	
		Compilerversions >= 3.5.18.0	
		-> The performance of some operations in	
		combination with the loading and storing	
		of compile information (project load,	
		download, update environment etc.) may	
		decreased by some percent.	
CDS-81451	CODESYSControl: Denial	[[GENERAL]]	CODESYS Control
CD3-61431		[[GENERAL]]	CODESTS Control
	of Service via CmpDevice	Fan manual datable and Advisory 0000 40	
	component	For more details see Advisory 2022-16,	
		which is available on the CODESYS	
		website:	
		https://customers.codesys.com/index.php?	
		eID=dumpFile&t=f&f=17351&token=a7c02	
		b2825fea2bcaf80c1a8e62097d72ec90f1a	
		&download=	0000000
CDS-84764	The connection from IDE	[[COMPATIBILITY_INFORMATION-	CODESYS Control
	to the target will be	OEM]]	
	aborted due to		
	CmpChannelMgr ::	QNX Runtimes running on multicore	
	Channel Timeout error on	systems now pin to first cpu by default.	
	the target after running	This behavior might be changed by	
	for several minutes.	command line parameter "-c" and	
	Connection aborted but	providing a cpu mask.	
	can be re-established.		
·	·		



2 Known Limitations

PPC VLE

The VLE variant of the PPC compiler could not be tested for this release. Therefore, we discourage the use of the 3.5.18.30 PPC compiler on VLE platforms.

Runtime VxWorks C++

The C++ implementation of the VxWorks runtime is not available for 3.5.18.30. Certain calls to the runtime from the IEC-Application may lead to runtime exceptions. For details see https://jira-intern.codesys.com/browse/CDS-81167.

Library Manager

On a freshly installed CODESYS, object editors in a source lib cannot be opened from library manager.

Workaround:

Once an editor of the same type has been opened in a local project, it also works from LibMan. This persists from one CDS installation to another (saved in .opt files) on that particular machine. For details see https://jira-intern.codesys.com/browse/CDS-82966.



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 IN ("V3.5 SP18 Patch 1", "V3.5 SP18 Patch 2", "V3.5 SP18 Patch 3", "V3.5 SP18 Patch 4", "V3.5 SP18 Patch 5")

fixVersion IN ("V3.5 SP18 Patch 1", "V3.5 SP18 Patch 2", "V3.5 SP18 Patch 3", "V3.5 SP18 Patch 4", "V3.5 SP18 Patch 5") AND issuetype = "New Feature"

List of features and changes since CODESYS V3.5 SP18:

fixVersion IN ("V3.5 SP18", "V3.5 SP18 Patch 1", "V3.5 SP18 Patch 2", "V3.5 SP18 Patch 3", "V3.5 SP18 Patch 4", "V3.5 SP18 Patch 5")

List of issues with compatibility information and known limitations:

fixVersion IN ("V3.5 SP18 Patch 1", "V3.5 SP18 Patch 2", "V3.5 SP18 Patch 3", "V3.5 SP18 Patch 4", "V3.5 SP18 Patch 5") AND (text ~ COMPATIBILITY INFORMATION OR text ~ KNOWN LIMITATIONS)

4 History

Created: Chris Trommeshauser (Quality Assurance)

Reviewed: Rico Ottliczky (Quality Assurance)
Released: Rico Ottliczky (Quality Assurance)