

# Release Notes

## MXpro 2.3.9

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### Release Information

<b>Product</b>	MXpro
<b>Release</b>	2.3.9 (Build 840)
<b>Setup</b>	Setup_MXpro_V2.3.9.exe
<b>Product Management</b>	H. Heck
<b>Test Management</b>	I. Hengartner
<b>Quality Management</b>	P. Zuber

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### Version Information

<b>Components</b>	<b>Actual Version</b>	<b>Previous Version</b>
<b>CoDesys Programming System</b>	2.3.9.5	2.3.6.4
<b>CoDeSys Gateway</b>	2.3.9.0	2.3.6.0
<b>CoDeSys OPC</b>	2.3.12.2	2.3.11.0

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## Target Firmware

	Actual Version	Previous Version
<b>TargetFirmwareWinCE_V2.4.4.exe</b> (for XV-2xx, XV-4xx, XVS-4xx, MA2-450)	2.4.4	2.4.2 resp. 2.4.3
<b>SetupTargetFirmwareVxWorks-V139.exe</b> (for XVC-6xx)	1.39	1.37
<b>SetupTargetFirmware166-V129.exe</b> (for XVC-100)	1.29	1.29
<b>Update_XNPLCCANopen_V01_05_Build_1033.hex</b>	1.05	1.03

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## MXpro Targets

	Actual Version	Previous Version
<b>XV-2xx</b>	2.3.9	2.3.6 SP1
<b>XV-4xx</b>	2.3.9	2.3.6 SP1
<b>XVS-4xx</b>	2.3.9	2.3.6 SP1
<b>MA2-450</b>	2.3.9	2.3.6 SP1
<b>XVC-100</b>	2.3.9	2.3.6 SP1
<b>XN-PLC-CANopen</b>	2.3.9	2.3.6 SP1

Note: All MXpro-Targets can be installed additional to any previous installed Version of MXpro Targets.

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## Versions

### Components:

CoDeSys Programming Tool	2.3.9.5
CoDeSys Gateway	2.3.9.0
CoDeSys OPC	2.3.13.2
TargetFirmwareWinCE for XV-2xx, XV-4xx, XVS-4xx, MA2-450	2.4.4
TargetFirmwareVxWorks for XVC-6xx	1.39
TargetFirmware166 for XVC-100	1.29
Update_XNPLCCANopen_V01_05_Build_1033.hex for XN-PLC-CANopen	1.05

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## Features

**Operation System Windows Vista now supported.**

**Profibus DPV1 functionality for XV-4xx, XV-2xx, XVS-4xx, MA2-450**

**easy-NET functionality for XV-4xx, XV-2xx, MA2-450**

**Force functionality of CAN-I/Os**

### New Libraries

Standard\_V2.lib

SysLibFileAsync.lib

SysLibFileStream.lib

SysLibForce.lib

SysLibGetAddress.lib

SysLibPLCConfig.lib

SysLibOs.lib

SysLibShm.lib

SysLibSocketsAsync.lib

SysLibSymbols.lib

TcpUdpLib.lib

SysLibEasyNet.lib

Hilscher.lib

SysLibDPV1Hilscher.lib

SysLibDPV1.lib  
CANsync\_Lib.lib

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## Changes

Util.lib: Typed literal warnings removed

Util\_no\_Real.lib: Typed literal warnings removed

SysLibCallback.lib: Comments changed

SysLibDir.lib: New function SysDirClose, comments changed

SysLibSockets.lib: New function SysSockGetLastErrorSync, various functional changes

SysLibProjectInfo.lib: New function SysGetProjectId, various functional changes

SysLibTasks.lib: Comments changed

3S\_CanOpenMaster.lib: CanOpenMaster Start-up behaviour changed. Disabled delay between 2 NodeReset commands if no slave is on the bus.

NetVarUdp\_LIB\_V23.lib: New basic version

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## Documentation

### New:

M002381.pdf - User manual MXpro: MXpro/PLCWinCE (German)

M002382.pdf - User manual MXpro: MXpro/PLCWinCE (English)

M000897.pdf - User manual MXpro: SymARTI-Library (German)

M002497.pdf - User manual MXpro: SymARTI-Library (English)

### Changed:

Various documents

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## Known restrictions

CAN: Baud rate 800kBaud needs OS Version > V2.20.3

## Addressed Defects and Changes

### MXpro V2.3.9

Ticket	Summary	Type	Status
2	Display of Task-Times in Online-Mode: The User can add manually the Libraries SysTaskInfo.lib und SysLibTime.lib	new feature	fixed
21	Forcing of CAN I/Os does not work	new feature	fixed
96	Function SysDirClose is missing	new feature	fixed
103	VAR_IN_OUT: Problem if BYTE- or WORD-Pointers are used (WinCE-Targets)	bug	fixed
152	Calling SetupTargetFirmware only works if the correct MXpro-Version is used	new feature	fixed
256	Manual of library SysLibRtc_Add.lib is missing	new feature	fixed
257	Manual of library SysLib _Add.lib is missing	new feature	fixed
260	MXpro: Version for Windows-Vista	new feature	fixed
262	MXpro: Error in IO-Configuration for XN-PLC-CANOPEN	bug	fixed
263	MXpro: Doc. Lib-Contents has no reference to VxWorks	new feature	fixed
264	MXpro: actual Copyright-Dates and Version info (Splash-Screen)	change	fixed
265	MXpro: Startmenue: Link to XN-PLC-Hex-File	bug	fixed
266	MXpro: Doc-Directory Updates	change	fixed
267	CANopen: start-up takes more time if no slave is on the bus	bug	fixed
273	User manual for CANopen-Libraries (English)	new feature	fixed
275	User manual for FtpClient- Library (English)	new feature	fixed
276	User manual for FastIO_Lib- Library (English)	new feature	fixed
277	Integration of WinCE 5.0 in TargetFirmwareWinCE	new feature	fixed
282	MXpro Targets: Moving PLCCConf-Directory	change	fixed
288	<Online><Stop> und afterwards <Online><Start> causes a higher PLC-Cycle time	bug	fixed

289	User manual for Library Busdiag.lib	new feature	fixed
290	Implementation of Moeller EasyNet Protocol	new feature	fixed
303	MXpro crash after „Project compare“	bug	fixed
306	Relative path with subdirectories for compile-files not supported	bug	fixed
309	MXpro Targets: Name "Micro Innovation AG" replaced with "Micro Innovation"	change	fixed
310	MXpro: Target-Installation for XCC-67x	new feature	fixed
312	MXpro RTS: Error message "SrvHandleDataTransfer: DOWNLOAD.SDB Error"	bug	fixed
314	PLC Configuration: support for max. 100 CAN-nodes	bug	fixed
317	Online change failed: Program too large	bug	fixed
324	New OS	change	fixed
331	MXpro: Target-DLL (for the calling of SetupTargetFirmware) / easy-NET Configuration	new feature	fixed
332	New CoDeSys Version	change	fixed
333	New CoDeSys Gateway-Server	change	fixed
335	New CoDeSys Online-Help	change	fixed
344	SymARTI: No Login-Check allowed (Login does not work for ELAU-Targets)	bug	fixed
349	Data type FILETIME is defined more than once	bug	fixed
351	Conflicting identifiers in Libraries NetVarUdp_LIB_V23.lib and TcpUdpLib.lib	change	fixed
353	XN-PLC-CANopen: don't delete PLC-Configuration on Target-Change	change	fixed

## RTS WinCE V2.4.4

Ticket	Summary	Type	Status
329	RTS WinCE: I/O-Config for Hilscher-Profibus-Driver does not work with "Spec. Config"	bug	fixed
225	SysLibDir.Lib: Problems with SysDirRename() and SysDirRemove() on WinCE 5.0	change	fixed

268	RTS: System-Handles can be misused from the PLC-Program (TCP/IP, File) => "Handle-protection" in the PLC-RTS	new feature	fixed
270	CANsync Library for WinCE-RTS	new feature	fixed
271	RTS-WinCE: new Callback to read CAN-Interface Pointers	new feature	fixed
274	RTS: wrong Error message "DOWNLOAD.SDB Error"	bug	fixed
278	RTS-WinCE: FB DiagGetBusState: xReady does not work	bug	fixed
287	Change Registry-Path 'Micro Innovation AG' => 'Micro Innovation'	change	fixed
296	Setup TargetFirmwareWinCE: new OS	change	fixed
298	DP-Master CMM-MPI should not start after license error	change	fixed
299	RTS WinCE: Hilscher-DPRAM-Watchdog not activated as default	bug	fixed
302	RTS WinCE: Baud rate for serial interface not taken from PLC-RTS	bug	fixed
304	RtsWinCE: Debugging over serial interface not working	bug	fixed
305	PLC-Browser: command 'rtsinfo' returns wrong value under WinCE 5.0	bug	fixed
307	DP V1 functionality for Onboard Profibus-DP	new feature	fixed
321	Browser command tskclear causes crash	bug	fixed
327	RTS WinCE: PageFaults if no Retain-Memory is available	bug	fixed
330	PlcRts: PageFault after Shutdown (UserDllExit-Function missing in some DLLs)	bug	fixed
350	RTS WinCE: Library-Funktion "SysExecuteCommand" opens Error-Window in case of error	bug	fixed

### RTS VxWorks V1.39

Ticket	Summary	Type	Status
27	Profibus Master : missing diagnostic information after wrong parameterization of the Gesys EC1 DP-Slave	bug	fixed
29	PLC doesn't start if a PB Masterproject is loaded and a PB-Slave-Hardware is available	bug	fixed
53	XVC-601: Switch is in „STOP“ and LED displays „RUN“	bug	fixed

259	New Function Block "Sys_MacAddr" for VxWorks Targets	new feature	fixed
316	UDP-User Library: Error if IP-Adress is not Class-C	bug	fixed
318	VxWorks: Ethernet-Treiber FEI for Congatec Celeron-M Board	new feature	fixed
319	SetupTargetFirmwareVxWorks: New Target XVC-670 (Celeron-M-Board)	new feature	fixed
320	Rts VxWorks: DiagGetState is different to RTS WinCE	bug	fixed
337	VxWorks: Support for 2 <sup>nd</sup> Disk-Partition	change	fixed
338	VxWorks: Systemclock can return wrong values	bug	fixed

### RTS XN-PLC-CANopen V1.05

Ticket	Summary	Type	Status
322	XN-PLC-CANopen does not actualize Analog Inputs after the download of a boot project	bug	fixed
339	Wrong answer of the controller XC161 Step BB after a received CAN RTR-Frame (Errata sheet)	bug	fixed
341	Writing of more than one variable at a time over OPC does not work an causes a crash of the PLC	bug	fixed
342	A call of the PLC-Browsers causes a hang of the PLC	bug	fixed
343	Support of the feature „target magic“ (Version handling of MXpro-Targets)	new feature	fixed