



System 800xA PC Toolkit Library for AC800M V5.1-5 Release Notes

System Version 5.1

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1. Release Notes

1.1 General



Any security measures described in this document, for example, for user access, password security, network security, firewalls, virus protection, and so on, represent possible steps that a user of an 800xA System may want to consider based on a risk assessment for a particular application and installation. This risk assessment, as well as the proper implementation, configuration, installation, operation, administration, and maintenance of all relevant security related equipment, software, and procedures, are the responsibility of the user of the 800xA System.

1.2 Introduction

This document describes the functionality changes and new functionalities introduced for the PC Toolkit Library for AC800M Version V5.1-5. It also enumerates known problems encountered in the final testing of this product release and identifies workarounds that help overcome the problem. The document contains additional notes that may be valuable to the customers and service personnel working with the product. This document replaces the existing release notes for the prior release and is included on the product media.

2. Functionality

The PC Toolkit Library for AC800M is a system extension for System 800xA. It compiles a basic set and optional software packages. PC Toolkit Library for AC800M was developed specially for use in the markets Oil, Gas & Chemicals. To a greatest possible extent, Faceplates and Graphic Elements are harmonized with the object types of Freelance and Melody/AC870P.

Refer to section 3.2 Related Documents and separate Release Notes for Interlock Viewer and Effect Viewer.

The PC Toolkit Library for AC800M comprises

Package	Description
Base	<ul style="list-style-type: none"> • Preconfigured one- and two-screen Operator Workplace • PC_Library with Control Module Types (CMT) based on the ABB Standard Library for the standard process function like motor, valve, counter, controller, etc. • Graphic Elements and Faceplates for all CMT's • PC_ExtensionLib with Profibus Modules for Simocode, UMC100, frequency converter, etc. • Interlock Viewer (replaces Interlock Display) • Free Graphic Elements showing mass data like radar diagram and profiling indication. • PC Tools facilitates interoperability configuration through the automated generation during engineering. It includes Aspect link, Link Generator and SFC Step Text Uploader. • Change Password Tool

Table 2-1 Contents of the Base software package

Following optional software packages are available

Packages	Description
HP HMI Add On	Expands the capabilities of traditional Graphic Elements and Faceplates. It provides technologies to make operator workplace safe and efficient.
FD Add On	Set of ready-to-use Function Designer Typical including I/O assignment which meets the requirements for the market Oil, Gas & Chemicals
Batch Library	The PC Batch Library provides an Equipment Phase Interface module (EPI), with additional CMT's and a faceplate. It provides the ability to connect 800xA Batch Management and controls SFC's in compliance with ISA88. Note: When using 800xA Batch Management the EPI Phase Driver is required
EPI Phase Driver	The EPI-Batch Module realizes the equipment module in the AC800M controller. It is the interface to connect different recipe packages 800xA Batch Management, Workflow Manager (WFM-BCM) in compliance with ISA88. It includes the Batch Equipment phase. It can also be used without recipe packages to drive SFCs, managing parameter and operator messages. Note: 1) Refer to Batch Report XL for a valuable optional package. 2) When using EPI Phase Driver the PC Batch Library is required.

Table 2-2 Optional software package

3. Versioning

The PC Toolkit Library for AC800M Version 5.1-5 has been released for delivery and plant operation under System 800xA SV5.1 and following versions including Feature Packs. Refer to section 3.1 Conditions, Restrictions and Remarks.

PC Toolkit Library for AC800M Software Packages	Delivery
ABB PC Graphic Object Types 5.1-4 (Build: 5.1.4.0)	base
ABB PC Interlock Viewer 5.1-1/9 (Build: 5.1.9.2)	base* ¹
ABB PC Tools 5.1-2 (Build: 5.1.2.0)	base
ABB PC Workplace 5.1-4 (Build: 5.1.4.0)	base
ABB PC Library for AC800M 2.1-4 (Build: 2.1.4.1)	base
ABB PC Library for AC800M 2.1-4 HP-HMI Add On (Build: 2.1.4.1)	base
ABB PC Library for AC800M 2.1-4 FD Add On (Build: 2.1.4.0)	base
ABB PC AC800M Batch Library 5.1-2 (Build: 5.1.2.4)	optional
ABB PC AC800M Batch Library 5.1-2 HP-HMI Add On (Build: 5.1.2.6)	optional
ABB PC AC800M Batch Library 5.1-2 FD Add On (Build: 5.1.2.0)	optional
ABB PC AC800M EPI Phase Driver 5.1-10 (Build: 5.1.10.0)	optional
ABB PC Toolkit Library for AC800M 2.1-2 Typical (Build: 2.01.0200)	optional
ABB PC Effect Viewer 5.1-2 (Build: 5.1.2.0)	optional * ¹
ABB PC Effect Viewer PC Extensions 5.1-2 (Build: 5.1.2.0)	optional * ¹

Table 3-1 Released software packages

*¹ The PC Interlock Viewer and PC Effect Viewer can be used in other libraries than PC_Lib. In this case the PC Interlock Viewer can be ordered as a separate software package. Refer to Price List Oil, Gas & Chemicals Germany 3BDA033517.

3.1 Conditions, Restrictions and Remarks

- The minimum requirement for the PC Toolkit Library V5.1-5 is System 800xA SV5.1RevA.
- If PC Batch Library or PC EPI Phase Driver is used, use 800xA V5.1SP4 RevD as the smallest version.
- PC Toolkit Library for AC800M requires the Graphic Editor PG2
- Graphic displays that were created under Visual Basic Graphic Editor are not supported anymore. A migration tool is available and part of the 800xA base product.
- The 800xA standard color table has been customized in order to meet requirements of the process industries Oil, Gas and Chemicals for graphic displays.
- The optional software package ABB PC Toolkit Library for AC800M 2.1-2 Typical (Build: 2.01.0200) was functionally not adapted to the new library features in V6.0-0.
- The Interlock Display was replaced by the Interlock Viewer. This requires that the link from the Faceplates to the Interlock window must be updated. Refer to update procedure in document 3BDA035322-510_Installation & Configuration. If required both versions can exist at the same time.
- If a control module (CM) of the PC_Lib is used inside another CM's, then the name of this PC_lib CM instance must be declared (if not already done) before a new download (PC_Lib name parameters have empty initial values). This applies only when the control module type is created by means of the CBM. It does not apply for control module types created with FD.
- If the PC Toolkit Library is being updated from V5.1-2 or older versions, then the consistency check might generate an error "Embedded instance 'SignalInRealM' is obsolete, no longer included in object type." Use the repair option of the consistency check tool to fix.

3.2 Related Documents

The following documents describe installation, configuration and operation with PC Toolkit Library for AC800M

Category	Document	Description
Release Notes	3BDA035388-510	PC Interlock Viewer
	3BDA035389-510	PC Effect Viewer
	3BDA033923-510	EPI-Batch Phase Driver
Operation	3BDA035321-510	Manual for Operators Handbuch für Bediener in deutsch
Installation & Configuration	3BDA035322-510	PC Toolkit Library for AC800M

Category	Document	Description
Manual	3BDA035330-510_CM 3BDA035332-510_CM 3BDA035333-510_CM 3BDA035334-510_CM 3BDA035342-510_CM 3BDA035344-510_CM 3BDA035345-510_CM 3BDA035347-510_CM 3BDA035350-510_CM 3BDA035361-510_CM 3BDA035362-510_CM 3BDA035363-510_CM	Control Modules details for: PC_Analog (PC_AI, PC_AICALC, PC_AO) PC_Dosing PC_Open_Loop_Control PC_Flags PC_Closed_Loop_Control PC_PulsPause PC_Binary (PC_DI) PC_Totalizer PC_Auxiliary CMT's and FB's Profibus_ACS800 Profibus_SIMO_PRO_V Profibus_UMC100
	3BDA035330-510_HMI ... 3BDA035354-510_HMI	Faceplate and Graphic Elements of the different Object Types. Please note, that the elements for Classic and HPHMI style have been separated.
	3BDA035329-510	Free Graphic Elements
	3BDA033478-510	Graphic Property Configuration
	3BDA035401R5106	Interlock Viewer
	3BDA035403R5103	Effect Viewer
	3BDA035360R51xx_FD	FD-Templates for: PCAI_1_FD, PCAO_1_FD, PCBI_1_FD, PCBO_1_FD, PCBO_2_FD, PCCNT_1_FD, PCCNT_2_FD, PCCNT_3_FD, PCCTRL_1_FD, PCCTRL_2_FD, PCCTRL_3_FD, PCCTRL_4_FD, PCDOS_1_FD, PCHVFC_1_FD, PCHVFC_2_FD, PCHVFO_1_FD, PCMOT_1_FD, PCMOT_2_FD, PCMOT_3_FD, PCMOT_4_FD, PCSFC_1_FD, PCSFC_2_FD
	3BDA033920-510	PC_EPI-Batch Module
	3BDA033919-510	PC_EPI-Batch Phase Driver

Table 3-2 Related Documentation

4. Product support

4.1 New Features – Improvements

Description	Remarks
<p>PC_AI was enhanced regarding signal handling</p> <ul style="list-style-type: none"> Alarm message and alarm generation are now subject of the same criteria. Output activation on range limits Signal status handling on over-/under-flow, line break, substitute value harmonized and accordingly documented The status information of the Input (HW) was not forwarded to the Output (Control Connection) Changing of the input range does not require a cold download anymore. possibility to set all limits in case of input error in InteractionPar (without alarming of the limits) Over- and Under range of the output can now be enabled <p><i>ID: ACM-CM-358, ACM-GEN-337, ID: ACM-CM-122,-123,-128,-300,-314</i></p>	New and enhanced against earlier module

Table -1 New Features

4.2 Fixed Problems in V5.1-3

4.2.1 Faceplates and graphics issues

Description	Remarks
<p>HPHMI bar graphs: Limit colors for all limits are now retrieved automatically by configured priority</p> <p><i>ID: ACM-GE-135, D: ACM-GE-067, ID: ACM-GE-238, ID: ACM-GE-239</i></p>	fixed
<p>Alarm Indication Graphic Element: The Font size is now configurable as input property.</p> <p><i>ID: ACM-GE-070</i></p>	fixed
<p>Large real values and min/max indicators for bar graphs are now displayed in exponent format</p> <p><i>ID: ACM-FP-098</i></p>	fixed
<p>PC_FlagBool[Ext] - No force indication in FP when out is forced</p> <p><i>ID: ACM-FP-104</i></p>	fixed
<p>PC_FlagTime - “ms” was not shown in GE and FP but possible to define</p> <p><i>ID: ACM-GE-106</i></p>	fixed
<p>PC_Drive - When Ilock0 && StatDeact Ilock1 && StatAct is true: the interlock is not indicated on FP, but indicated on GE.</p> <p><i>ID: ACM-FP-107</i></p>	fixed
<p>PC_Drive - When alarms were disabled, they appeared in the alarm list (even the inactive ones). This led to visibility of the status indication in FP and GE</p> <p><i>ID: ACM-FP-108</i></p>	fixed

Description	Remarks
RatioCC - OP Note indication was not shown when OP Note had data. <i>ID: ACM-FP-116</i>	fixed
RatioCC - Unit for actual ratio and ration was not indicated <i>ID: ACM-FP-117</i>	fixed
RatioCC - Fraction was not indicated in the Faceplate <i>ID: ACM-FP-118</i>	fixed
SplitRangeCC - Disable state from the outputs was not indicated <i>ID: ACM-FP-120</i>	fixed
PC_PID – Set point ramping is now deactivated in manual mode. <i>ID: ACM-FP-125</i>	fixed
PC_Motor, PC_Valve - HPHMI: In order to show identical icons on FPs and GEs, new aspects were introduced. PC_HMI_MotorSettings allows adapting the icon type of Motors by means of integer values. Same applies to Valve with aspect PC_HMI_ValveUniSettings. <i>ID: ACM-FP-145</i>	fixed
Package installation: The installation routine is now guiding the user to load SFC Viewer package before the PC_Workplace package. <i>ID: ACM-WP-171</i>	fixed
SignalInBoolM: The GE signbool_HPHMI_Text SL_Deviation translation was not found. <i>ID: ACM-GE-181</i>	fixed
HPHMI Graphic Elements in with Interlock icon: A new icon for Interlock was introduced which replaces the old Interlock status symbol. The old indication can be disabled with property ShowInterlock. Default setting is True <i>ID: ACM-GE-189</i>	fixed
PC_PID: PV value is not indicated in the FP trend (classic only) <i>ID: ACM-GE-190</i>	fixed
PC_PID, PC_PIDMASTER: Set/reset checkboxes takes no effect in the FP trend (classic only) <i>ID: ACM-GE-191</i>	fixed
Indication on input failures between PC_AI and PC_PID/PIDMASTER harmonized (yellow background). <i>ID: ACM-GE-192</i>	fixed
The MAX / MIN indication of controller output reached (yellow symbol) did appear when limit output was deactivated. <i>ID: ACM-GE-193</i>	fixed
Level LL was not displayed in a HPHMI faceplate <i>ID: ACM-GE-195</i>	fixed
After the default installation routine the new aspect categories are not part of the Faceplate Link Creator settings. <i>ID: ACM-GE-196</i>	fixed
PC_MotorBiM, PC_MotorUniM: The expression of EnableReset cannot be modified. <i>ID: ACM-GE-197</i>	Refer to note in HMI documents

Description	Remarks
Interlock Indication: The appearance of the interlock indication harmonized between object types. Letter "R" added for ready to reset. <i>ID: ACM-FP-199</i>	fixed
PC_ValveBiM: When Locking0/1/2 was active and changes to inactive the operator cannot reset the lock. At this moment the motor was inoperable from the faceplate. <i>ID: ACM-FP-200</i>	fixed
PC_PID, PC_PIDMASTER: When TrackMan/TrackAuto/TrackOld is active the button to switch over to manual mode was not disabled. <i>ID: ACM-FP-201</i>	fixed
Trend Graphic Elements: It is now possible to configure the limits as visible or invisible. <i>ID: ACM-GE-202</i>	fixed
SFC Faceplate: Display of Max- and Min-Time was not adjusted to the current value (field in FP is too small). <i>ID: ACM-GE-203</i>	fixed
PC_Alarm_Event: if AEConfig was set to 4 (Level) an parameter error occurred <i>ID: ACM-GE-206</i>	fixed
PC_Drive: MotorValueAlarm showed unit "%" <i>ID: ACM-GE-207</i>	fixed
PC_PIDMASTER: Edit and common tab was not always visible when user hasn't had application engineer role <i>ID: ACM-GE-208</i>	fixed
PC_FlagBool, PC_FlagBoolExt: When CM parameter UsePulse value is changed from 1 to 0 and Pulse Out in FP is set to true, puls was still active. <i>ID: ACM-GE-209</i>	fixed
PC_Totalizer: Unit string was not set on OutRealIO <i>ID: ACM-GE-210</i>	fixed
PC_Dosing: Description of InteractionPar.PredosingMode was wrong <i>ID: ACM-GE-211</i>	fixed
PC_AI, PC_PID/PIDMASTER: It was not possible to set the hysteresis for the limits less than the lower measuring range value. <i>ID: ACM-GE-212</i>	fixed
HPHMI numeric graphic elements have had an input property "alarm frame width" which had no effect. <i>ID: ACM-GE-213</i>	The property is now deleted.
CM PC_DI_Out: Inhibit did not work correctly if parameter voteout.backward.connected was not set. <i>ID: ACM-GE-214</i>	fixed

Description	Remarks
The HPHMI SignalInBoolM Graphic Element has a configurable color for bad state. It is now possible to configure and show the highest alarm state color of the tag. <i>ID: ACM-GE-237</i>	fixed
PC_Dosing: Stop CountingDelay was not changeable in the faceplate <i>ID: ACM-GE-241</i>	fixed
PC_MotorBIM: (HPHMI+Classic) It was not possible to have the FB0 trend visible after hiding it. <i>ID: ACM-GE-242</i>	fixed
PC_PID, PC_PIDMASTER: Deviation limit values are not indicated correctly in case of AEConfig = 4 (values are indicated as disabled) <i>ID: ACM-GE-243</i>	fixed
PC_Dosing: Setpoint is now changeable with the bar graph slider in automode <i>ID: ACM-GE-244</i>	fixed
PC_Dosing: When the coarse or fine valve was manually opened by using the faceplate buttons (not O/I) and the mode was switched over to automatic the valves did not close with AutoCmd0 or when the set point value was reached) <i>ID: ACM-GE-245</i>	fixed
PC_Drive: A new parameter External Modelnit is available to switch the external SP on an initial controller load. <i>ID: ACM-FP-246</i>	fixed
PC_PID, PC_PIDMASTER: With parameter AllowManModelnTrack of aspect PC_HMI_PIDSettings it is now possibility to change to manual mode if track is active <i>ID: ACM-FP-248</i>	fixed
PC_AI: INC/DEC The limit violation is now calculated based on Out.Forward.Value. The input signal error and filter handling is now included. <i>ID: ACM-FP-249</i>	fixed
PC_PID, PC_PIDMASTER: Unit and Range of the Offset is now used from the Out signal <i>ID: ACM-FP-250</i>	fixed
PC_FlagBoolExt: When track to false becomes inactive while PC_FlagBoolExt is in manual mode and the output was in state true before, the Flag went back to true state again. <i>ID: ACM-FP-251</i>	fixed
PC_FlagBoolExt: Visibility of configuration for Pulsed Output depends on UsePulse parameter. If this parameter is set before first download then Pulse Out is automatically set to true. If later the parameter is set to true then Pulse Out becomes by default off. <i>ID: ACM-FP-252</i>	fixed

Description	Remarks
PC_Totalizer: When Totalizer is configured with Periodic Reset the default period time is 0s. Once the counter is set to periodic time it is not possible to reset the counter any longer. <i>ID: ACM-FP-253</i>	fixed
PC_PID, PC_PIDMASTER: Trend tab is now indicating the Out.Forward. Value instead of IP.OutManValue) <i>ID: ACM-FP-254</i>	fixed
PC Numeric Value Type ValuePosition was limited from 30 to 85. <i>ID: ACM-FP-256</i>	fixed
PC_FlagBoolExt: When module is in Track all buttons in the Faceplate (Classic & HPHMI) are now disabled <i>ID: ACM-FP-257</i>	fixed
PC_FlagBoolExt: When module is in Track it is now possible to change the mode with inputs AutoIn and ManIn <i>ID: ACM-FP-258</i>	fixed
PC_FlagBoolExt: The icons position in the indication area is now synchronized to Motor and Valve <i>ID: ACM-FP-259</i>	fixed
All Faceplate are now prepared to be compatible with Interlock Viewer. Refer to update procedure. <i>ID: ACM-FP-264</i>	fixed
All delivered PC_Libraries were checked against consistency errors. They should not appear again. <i>ID: ACM-LIB-265</i>	fixed

Table -2 Fixed Issues on faceplate and graphic in V5.1-3

4.2.2 PC_Library (Control Modules and Typical)

Description	Remarks
PC_Dosing - Status Alarm has no Message <i>ID: ACM-CM-103</i>	fixed
PC_ValveBiM - If Priority CmdMan=True and OperationCond or Locking signal becomes TRUE and Inhibit all incoming conditions is active then Valve switches to manual mode. <i>ID: ACM-CM-110</i>	fixed
PC_MotorBiM – there was no alarm for bad signal of FB2. <i>ID: ACM-CM-113</i>	fixed
PC_Totalizer, PC_Dosing - If AEConfig=0 alarm output was set <i>ID: ACM-CM-115</i>	fixed
PC_PID - Output value seemed to be frozen in case of an error <i>ID: ACM-CM-124</i>	fixed
SplitRangeCC - On bad IN signal, no alarm was generated <i>ID: ACM-CM-119</i>	fixed

Description	Remarks
PC_PID - Signal SetInternal was ignored. It was immediately set back to false. <i>ID: ACM-CM-126</i>	fixed
PC_PID – Visibility of the Output Change rate depends now on the parameters OutRampIncEn, OutRampDecEn and EnableOutSpeedLim. <i>ID: ACM-CM-127</i>	fixed
Parameter publishing of typicals has been corrected <i>ID: ACM-TYP-144</i>	fixed
PC_PID, PC_PIDMASTER: Setinternal was true when external SP and SP.Status was bad. <i>ID: ACM-CM-216</i>	fixed
PC_PID, PC_PIDMASTER: Tab Active was missing in HPHMI faceplate <i>ID: ACM-CM-217</i>	fixed
PC_StatusMessages: Event list (" SL_...) showed invalid message text <i>ID: ACM-CM-218</i>	fixed
PC_AlarmEvent: On AEConfig =2; both messages were the same without any difference in indication. <i>ID: ACM-CM-219</i>	fixed
PC_PID: Output limit values are now changeable. <i>ID: ACM-CM-221</i>	fixed
PC_PID: Enabling tolerance band with parameters EnableDevPos and EnableDevNeg in FD did not work <i>ID: ACM-CM-224</i>	fixed
PC_FlagBool: Faceplate did not show the indication for Operator Notes. <i>ID: ACM-CM-225</i>	fixed
Radar Graphic Elements: If the value was less than the min range the red bar was shown outside the element. <i>ID: ACM-CM-228</i>	fixed
The HPHMI SignalInBoolM Faceplate was behaving differently to the Classic Faceplate. Bad status indication of the Classic Faceplate (no matter if the input was inverted or not) was always at the top. In HPHMI style the logical 1 was shown at the top and logical 0 at the bottom of the faceplate. <i>ID: ACM-CM-236</i>	fixed
The manuals for control modules show references to the used library. <i>ID: ACM-CM-272</i>	fixed

Table -3 Fixed Issues Control Modules and Typicals in V5.1-3

4.2.3 PC_Batch_Library (EPI-Batch Module)

Description	Remarks
An SFC in manual mode does not accept an operation requested from EPI. A message is not generated. <i>ID: EPI-CM-008</i>	New InteractionPar parameter AllowSFCManMode introduced. If not set the connected SFC's are forced in automatic mode.

Table 4-4 Fixed Problems on EPI in V5.1-3

4.3 Fixed Problems in V5.1-4

4.3.1 Faceplates and graphical issues

Description	Remarks
All Classic GE: After upgrading 800xA to 5.1 FP4 RevD (or 5.1 RevD) graphics become inoperable if in one or more GE's the property StatusIndWidth is set to 0 <i>ID: ACM-GE-226, ACM-FP-342</i>	fixed
PC_ValveBiM: When the valve is opened and gets a command to stop, it is not indicated on faceplate that the valve is stopping. <i>ID: ACM-FP-227</i>	fixed
PC_ValveUniM+BiM, Valence supervision is not documented in CMT documentation <i>ID: ACM-FP-270</i>	fixed
PC_FlagBool Classic Faceplate: indication for Operator Note is shown on wrong position <i>ID: ACM-FP-278</i>	fixed
PC_ValveBiM: feedback parameter (FBConfig = 4) brings object error when the command 1 or 2 has been activated (in manual or auto mode). <i>ID: ACM-FP-284</i>	fixed
SFC2DHeader: Indication of OperatorNote HoldsData is missing in PC Faceplate (Standard+HPHMI) <i>ID: ACM-FP-286</i>	fixed
PC_Motor.../PC_Drive: GroupStartMode is not indicated in the Faceplate when active <i>ID: ACM-FP-288</i>	fixed
PC_Dosing: If parameter SetAuto or SetMan is true, the faceplate button to switch over to manual mode is not disabled. <i>ID: ACM-FP-293</i>	fixed
PC_PID/PC_PIDMaster: Depending on the chosen type of controller P, PI, PD, PID the field "Derivation filter time" the eligibility is not displayed correctly. <i>ID: ACM-FP-299, 304</i>	fixed
Sometimes the alarm/event lists are not sorted properly. Alarm list is sorted by active time but displayed column is event time	fixed

Description	Remarks
<i>ID: ACM-GEN-303</i>	
PC_PIDMASTER: Some OUT graphic elements indicate PidCCPar.Faceplate.OutManValue, instead of Out.Forward.Value <i>ID: ACM-FP-305</i>	fixed
PC_Drive: In track mode the SP input is still editable, but has no influence <i>ID: ACM-FP-329</i>	fixed
PC_PID+PC_PIDMASTER, PC_Drive: Switchover to external setpoint is possible, even if SP.Forward.Status is bad and IntOnBadSP is set <i>ID: ACM-FP-343</i>	fixed
PC_Drive: 'On' button shall not be enabled in case of ObjError. <i>ID: ACM-FP-346</i>	fixed

Table 4-5 Fixed Issues on faceplate and graphic in V5.1-4

4.3.2 PC_Library (Control Modules and Typical)

Description	Remarks
Some PC_Lib Control Modules have a Name Parameter input with 25 characters string limit and some 30. <i>ID: ACM-CM-273</i>	Name parameters have 30 characters now
Some PC_Lib Control Modules don't have a Description Parameter. <i>ID: ACM-CM-274, 308</i>	Control Modules which have name parameter have also description parameter now
PC_Dosing: Description of parameter CondNameL says "HH alarm" instead of "L alarm" <i>ID: ACM-CM-289</i>	fixed
PC_AI: Description of parameter INCAct says "INV active" Instead of "INC active" <i>ID: ACM-CM-290</i>	fixed
Data Type PC_ValveUniMPar. Description of "SetAuto" is not correct <i>ID: ACM-CM-291</i>	fixed
PC_Dosing: Description of parameters PriorityCmd0 and OperationCond0 does not describe the parameter functionality <i>ID: ACM-CM-292</i>	fixed
Motors, Valves, Drive: The behavior of feedbacks and common outputs does not work correctly in "TestMode". If TestMode is set, it should be indicated in faceplate, command outputs must not be set any longer and feedbacks should be simulated. <i>ID: ACM-CM-295</i>	fixed
Motors, Valves, Drive: behavior of parameters KeepModeAtError and KeepOutAtError do not work correctly <i>ID: ACM-CM-296, ACM-CM-287</i>	fixed
PC_Dosing: DataType PC_Dosing_Par - description of parameter ErrorMode says "Behavior of Out..." instead of "Behavior of Input..."	fixed

Description	Remarks
<i>ID: ACM-CM-301</i>	
PC_ExtensionLib Control Modules have still "unspecified" parameter direction and because of that cannot be used in Diagrams in combination with other modules which have a defined parameter direction. <i>ID: ACM-CM-302</i>	fixed
PC_ValveMan: AIState output has always the value -710. This error code means SourceName and Conditionname not unique. <i>ID: ACM-CM-307</i>	fixed
PC_AI: Limits generate no alarm on error when error mode is set to predetermined value. <i>ID: ACM-CM-309</i>	fixed
PC_AI: Inc/Dec limits are also active when InteractionPar.LevelInc/LevelDec = 0. This leads to an alarm (if alarm is enabled) on each input value change. <i>ID: ACM-CM-310</i>	fixed
The names of the blind objects generate errors after a cold download, needed due to hardware changes. After this, the name uploader gave errors on this with the explanation: "ignored empty name properties for...." <i>ID: ACM-CM-315</i>	fixed
PC_Totalizer: The counter is not working correctly when switching from analog input value to binary mode. On switch to binary count mode the last OutRealIO value is kept, instead of calculate on InBool value <i>ID: ACM-CM-316</i>	fixed
PC_PID/PC_PIDMASTER: Modified Controller parameter (TN, KP, TI) become active immediately at value input. <i>ID: ACM-CM-319</i>	The values become active only after an Apply.
PC_TOALIZER: Mode switch from logic is not valid configured. Currently only via InteractionPar possible, but no lock of the mode buttons if set by logic <i>ID: ACM-CM-320</i>	fixed
PC_TOALIZER: Override value in HHHwlnh, HHwlnh and Hwlnh is only set by set from faceplate, CM inputs InhGTHHHAct and so on are ignored <i>ID: ACM-CM-321</i>	fixed
PC_Drive: Alarm or Object error is missing on bad FBSpeed value <i>ID: ACM-CM-323</i>	fixed
Valve/Motor/Drive: After deleting and reloading an application, the InteractionPar.Enable ObjErr is set by GroupStart variable again <i>ID: ACM-CM-324</i>	Value is now persistent after action
PC_Drive: SPMANValue (means DriveSP) is reset on delete/reload of the application <i>ID: ACM-CM-325</i>	Value is now persistent after action
PC_Drive: Output ExternalMode is not set <i>ID: ACM-CM-328</i>	fixed

Description	Remarks
PC_Drive: Switchover to external mode is possible even if the external set point is bad or unconnected <i>ID: ACM-CM-333</i>	fixed
PC_PID/PC_PIDMASTER: Switchover to external mode by SetExt is possible even if the external set point is unconnected <i>ID: ACM-CM-334</i>	fixed
PC_Drive, PC_Motor...: Operation of the module in object test mode is not possible if Failure, WindTemp or Maintenance is set. <i>ID: ACM-CM-335</i>	fixed
PC_PID/PC_PIDMASTER: Indication of controller settings (Tab Active) may be incorrect or empty after warm start or change of settings <i>ID: ACM-CM-339</i>	fixed
PC_Drive: At SP connected PC_PIDMASTER will not set to backtracking if Drive is not started <i>ID: ACM-CM-341</i>	fixed
PC_AI, PC_PID, PC_PIDMASTER: Limit alarms are created exact on limit value, but outputs are set on value < limit (for low limits) or set on value > limit (for high limits) <i>ID: ACM-CM-348</i>	fixed

4.3.3 PC_Batch_Library (EPI-Batch Module)

Description	Remarks
Values on EPI faceplate tab "Report values" show red question marks for some seconds. <i>ID: EPI-FP-016, EPI-CM-017</i>	fixed
Operation mode handling between EPI und SFC not working correctly. <i>ID: EPI-CM-008, EPI-CM-015</i>	fixed
"Main View" was translated to "Hauptsicht" in German Language Package FP4. This results in late bindings problems of the faceplate. <i>ID: EPI-CM-018</i>	fixed
Aspect Key information in the Control Module Type PC-EquipmPhaseIntf is lost after PC Toolkit Library update <i>ID: EPI-CM-019</i>	fixed
EPI-Faceplate: Parameter write handing not correct. <i>ID: EPI-CM-036</i>	fixed
EPI-Faceplate. The full SFC-name is not shown <i>ID: EPI-CM-037</i>	fixed

Table 4-6 Fixed Problems on EPI-Batch Module

4.4 Fixed Problems in V5.1-5

4.4.1 Faceplates and graphical issues

Description	Remarks
Option "ShowTrackAsIL" for classic faceplates (PC_PID, PC_PIDMASTER, PC_FlagBoolExt, PC_FlagRealExt) implement. With an additional setting it is possible to change track indication to interlock indication (in classic style X). Functionality in HPHMI faceplates is already implemented. <i>ID: ACM-CM-255</i>	improvement
Status Indication for Alarm Inhibited is now a yellow cross on grey background. <i>ID: ACM-CM-268</i>	improvement
PC_SplitRangeCC: Correction in In.Backward components <i>ID: ACM-CM-268, ACM-CM-354</i>	fixed
PC_Drive: SP.Backward.Range parameters were not set properly <i>ID: ACM-CM-349</i>	fixed
PC_DI: Alarm delay did not delay the output <i>ID: ACM-CM-350</i>	fixed
PC_SelRealIO did not transfer the status code from the selected input to the output <i>ID: ACM-CM-351</i>	fixed
PC_Totalizer: The output value is correct calculated even if the pulse width value has changed. <i>ID: ACM-CM-353</i>	fixed
PC_Alarm_Event: if a filter time ≤ 0 is set, no alarm/event is generated <i>ID: ACM-CM-355</i>	fixed
PC_MovingAvg (PC_ExtensionLib): In some cases a wrong value are calculated over the array contents <i>ID: ACM-CM-356</i>	fixed
PC_Drive: Setting the FBSpeed.Parameters.Max with phMaxDrz may lead in incorrect behavior of PC_AI if both are connected to the same input (IO) <i>ID: ACM-CM-357</i>	fixed
PC_AI: Redesign the PC_AI due to several reasons (alarm generation / output activation on range limits, over-/under-range handling, changing of input range without cold download, etc) <i>ID: ACM-CM-358</i>	fixed
PC_Drive: MaxDeviationInt is reset on coldstart, but only set by MaxDeviation on init load (MaxDeviationInt is only retain) <i>ID: ACM-CM-359</i>	fixed

Description	Remarks
PC_AI (and therefor also PC_AICALC and PC_PIDs): In case of error and additional status information in In.Status like IPS value is active, the internal error recognition did not work <i>ID: ACM-CM-360</i>	fixed
PC_Drive: SP Range is set to -phMaxDrz to +phMaxDrz not cannot limited to only forward direction (0 to phMaxDrv) <i>ID: ACM-CM-361</i>	fixed
PC_MotorBIM: Faceplate buttons are disabled in case of object error <i>ID: ACM-FP-345</i>	harmonize with other modules
The Status Indication in classic Faceplates is shown in HPHMI style only. <i>ID: ACM-FP-266</i>	Changes in new version: Can be changed by using the ABB PC Graphic Settings Editor - tab Status Indication. It is possible to use predefined classic or HP-HMI settings or set project defined status indication representations.
The Status Indication in classic Graphic Elements is shown in HPHMI style. <i>ID: ACM-GE-267</i>	Changes in new version: Can be changed by using the ABB PC Graphic Settings Editor - tab Status Indication. It is possible to use predefined classic or HP-HMI settings or set project defined status indication representations.

Table 4-7 Fixed Problems in V5.1-5

4.4.2 PC_Library (Control Modules and Typicals)

Description	Remarks
PC_MotorBIM: Faceplate buttons are disabled in case of object error <i>ID: ACM-FP-345</i>	harmonize with other modules
PC_SplitRangeCC: In.Backward.Connected was not set any time. This lead in a superior controller module (for example PC_PIDMASTER if the EnableOutSpeedLim was set to false). <i>ID: ACM-CM-336</i>	fixed
PC_Drive: SP.Backward.Range parameters are not properly set <i>ID: ACM-CM-349</i>	fixed

Description	Remarks
If InteractionPar.KeepModeOnError is set to true, the PC_MotorUniM and PC_Drive the Drive/Motor still changes to Man mode in case of a failure. PC_ValveUni/Bi works as designed <i>ID: ACM-CM-138</i>	fixed
PC_Drive: After switch On the drive module the output OutCtrl is immediatally set to 100%. <i>ID: ACM-CM-362</i>	fixed

Table 4-8 Fixed Problems in V5.1-5

4.5 Known Problems in V5.1.5

4.5.1 Graphical issues and documentation

Description	Remarks
PC_PID, PC_PIDMASTER, PC_FlagBoolExt, PC_FlagRealExt). It is not possible to change the track indication to interlock indication in classic faceplates (option "ShowTrackAsIL"). <i>ID: ACM-FP-260</i>	<ul style="list-style-type: none"> In Classic faceplate the track is not shown as interlock (with X) The HPHMI faceplates shows interlock correctly
PC_PID and PC_PIDMASTER : When module is in track mode (TrackMan, TrackAuto, TrackOld) then output "AutoStat" is set to true and mode graphic element shows auto mode even module was in manual before. <i>ID: ACM-FP-282</i>	The indication of the faceplate is ok but GE shows always first icon auto mode in case of track.
Common: Combo boxes will write the values directly to the desired property on change (without Apply). For example PC_Totalizer Tab Parameters1 <i>ID: ACM-FP-318</i>	

Table 4-9 Known Problems for graphical issues and documentation

4.5.2 PC_Library (Control Module Types)

Description	Remarks
none	

Table 4-10 Known Problems for Control Module types

4.6 Technical Support

Contact ABB technical support at tech-support-system-solution@de.abb.com or you local ABB representative for assistance in problem reporting.

4.7 How to obtain

Product Marketing/ TechSalesSupport and Order placement: DEATG/CES; <mailto:tech-support-system-solution@de.abb.com> , Phone +49 (0)69 7930 4410

License cost is outlined in the Price List 3BDA033517K_PriceBook_SystemSolutions

4.8 Deliverables

CD-Rom or DVD Medium with PC Toolkit Library for AC800M and product documentation in English.

5. Revisions

Rev. ind.	Chapter	Description	Date/Init.
-d1	All	Created	2011.03.07/FB
-		Reviewed and approved to V5.0SP2RevD	2011.03.17/FB
A		Adapted and approved to V5.1	2011.03.22/FB
A+		Known Problems List formatted and completed with additional minor problems	2011.04.15/FB
Bd1		Adapted to TKL V5.1-1	2011.07.06/FB
B		Approved to PC TKL V5.1-1	2011.07.07/FB
Cd1		Adapted to V5.1-2	2012.04.16/FB
C		Approved and released to PC TKL V5.1-2	2012.04.20/FB
Dd1		Adapted to PC TKL V5.1-2RevA	2012.08.28/TG
D		Updated with latest findings during test and released to PC TKL V5.1-2RevA	2013.03.20/FB
Ed1	all	Prepared for Release V5.1-3	2013.11.29/FB
E		Reviewed and released for V5.1-3	2014.02.14/FB
Fd1		Prepared for V5.1-4	2015.05.28/TG
F		Reviewed and approved for V5.1-4	2015.06.08/FB
G		Reviewed and approved for V6.0-0	2016.04.25/FB
H		Reviewed and approved for V5.1-5	2016.06.06/FB

Table 5-1 Revision



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