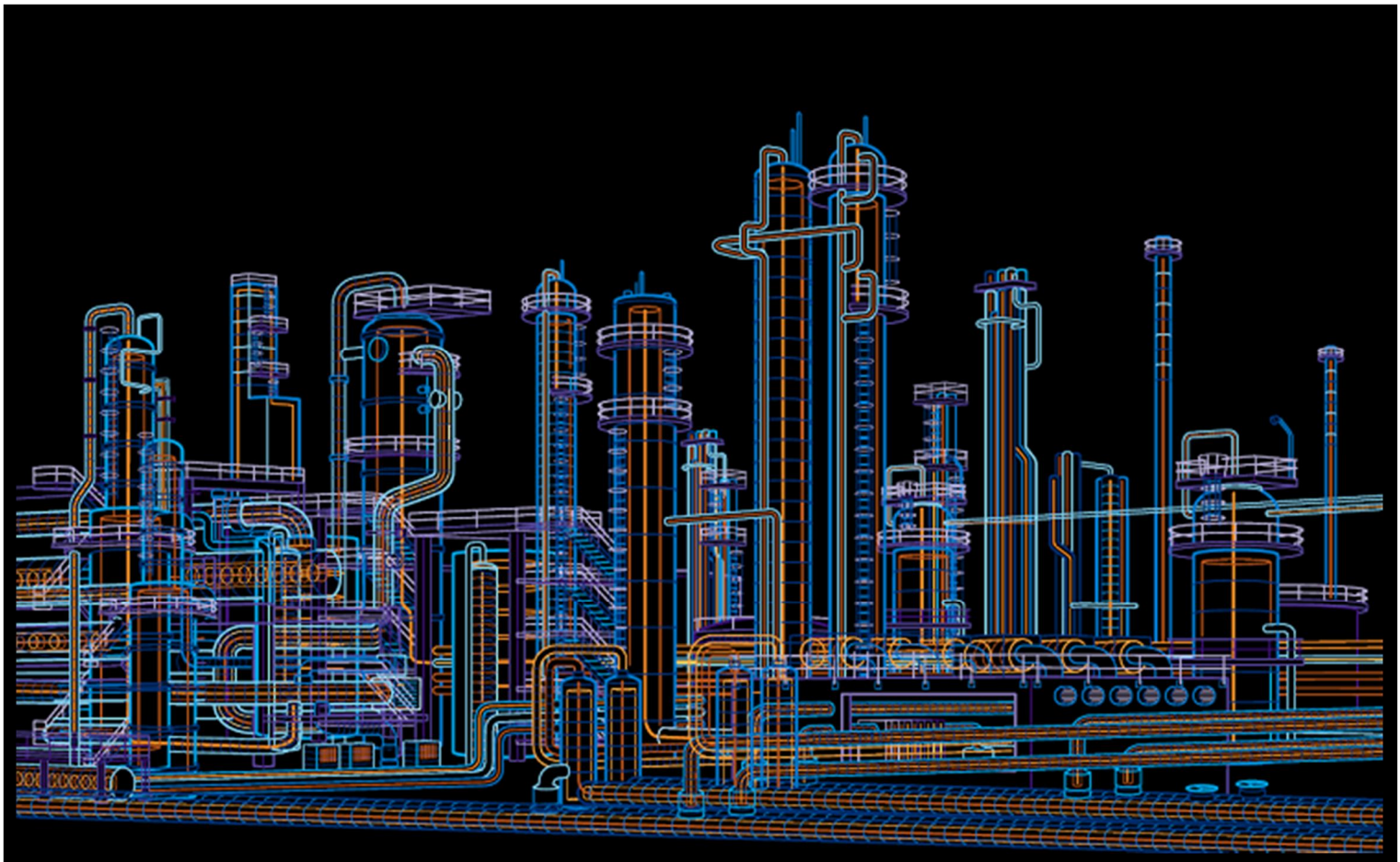

System 800xA
PC Toolkit Library for Melody V5.1-4
Release Notes

System Version 5.1

Power and productivity
for a better world™

Notice

This document contains information about one or more ABB products and may include a description of or a reference to one or more standards that may be generally relevant to the ABB products. The presence of any such description of a standard or reference to a standard is not a representation that all of the ABB products referenced in this document support all of the features of the described or referenced standard. In order to determine the specific features supported by a particular ABB product, the reader should consult the product specifications for the particular ABB product.

ABB may have one or more patents or pending patent applications protecting the intellectual property in the ABB products described in this document.

The information in this document is subject to change without notice and should not be construed as a commitment by ABB. ABB assumes no responsibility for any errors that may appear in this document.

Products described or referenced in this document are designed to be connected, and to communicate information and data via a secure network. It is the sole responsibility of the system/product owner to provide and continuously ensure a secure connection between the product and the system network and/or any other networks that may be connected.

The system/product owners must establish and maintain appropriate measures, including, but not limited to, the installation of firewalls, application of authentication measures, encryption of data, installation of antivirus programs, and so on, to protect the system, its products and networks, against security breaches, unauthorized access, interference, intrusion, leakage, and/or theft of data or information. Refer also to document System 800xA 6.0 Administration and Security. Document Number 3BSE037410-600.

ABB verifies the function of released products and updates. However system/product owners are ultimately responsible to ensure that any system update (including but not limited to code changes, con-figuration file changes, third-party software updates or patches, hardware change out, and so on) is compatible with the security measures implemented. The system/product owners must verify that the system and associated products function as expected in the environment they are deployed.

In no event shall ABB be liable for direct, indirect, special, incidental or consequential damages of any nature or kind arising from the use of this document, nor shall ABB be liable for incidental or consequential damages arising from use of any software or hardware described in this document.

This document and parts thereof must not be reproduced or copied without written permission from ABB, and the contents thereof must not be imparted to a third party nor used for any unauthorized purpose.

Trademarks

Release: 2016-06-06

Document Number: 3BDA033529R5108

Table of Content

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

PC Toolkit Library for Melody Version V5.1-4 has been released for System 800xA SV5.1 (all Rev and FP versions). 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 Melody is a system extension for System 800xA. It extends the standard 800xA software with display libraries and functional libraries for the process industries (Chemical, Oil and Gas). It consists of a Basic set and one or more additional optional packages. The basic set is mandatory. It includes a standardized ready-to-use workplace, engineering tools, faceplates for the operating of functions and graphic elements for setting up process graphics. The PC Toolkit Library for Melody/AC870P is harmonized with faceplates and graphic elements for Freelance/AC800F and AC800M to the greatest extend.

The PC Toolkit Library for Melody comprises

Package	Description
Basis	• Preconfigured one- and two-screen Operator Workplace • Graphic Elements and Faceplates for all Melody Function Blocks (used in the Process Industries Petrochem, Oil & Gas) • Free Graphic Elements that allow showing mass data like radar diagram and profiling indication. • PC Tools supports configuration by automatically generating. It includes Aspect link, Link Generator and SFC Step Text Uploader. • Change Password tool allows operators to change the password via the 800xA workplace

Table 2-1 Contents of the Basis software package

Following optional software packages are available

Packages	Description
HP HMI	Leverages and expands the capabilities of traditional Graphic Elements and Faceplates. It provides technologies to make operator workplace safe and efficient.

Table 2-2 Optional software package

3. Versioning

Software Package
ABB PC Graphic Object Types 5.1-4 (Build: 5.1.4.0)
ABB PC Tools 5.1-2 (Build: 5.1.2.0)
ABB PC Workplace 5.1-4 (Build: 5.1.4.0)
ABB PC Setup for Melody 5.1-4 (Build: 5.1.4.0)
ABB PC Library for Melody HP-HMI Add On 5.1-4 (Build: 5.1.4.0)

Table 3-1 Software package version

3.1 Conditions, Restrictions and Remarks

- Graphic displays that were created under Visual Basic Graphic Editor are still supported but are recommended to be migrated. A migration tool is available and part of the 800xA base product.
- As of version 5.1-3 the classic faceplates cannot be customized anymore (e.g. button style, step size, etc.) as it was possible in earlier versions.
- Refer to section 3BDA033456R5108EN Installation and Configuration when updating PC Setup for Melody to PC Toolkit Library for Melody.
- When using a four-screen-workplace the following rules and restrictions should be considered:
- The response time of a workplace with 4-screens is getting lower, when viewing many tags in alarm state. A limitation of open displays should be therefore considered. Example: Set the limitation at 8 graphic displays (full screen or ¼ screen), 3 trend displays, 1 group displays, 6 faceplates and 2 alarm pages.
- Display Call-up Time System 800xA (refer to 3BSE041434-510 System 800xA 5.1 System Guide Technical Data and Configuration)

Graphic Displays	Display Call-up Time
Graphic Display with maximum 800 OPC items (100 objects)	≤1 secs.[1]
Group Display with 10 faceplates	≤5 secs.
Faceplate	≤1 secs.
Extended Faceplate	≤2 secs.
Trend Display, at first call-up of trend with 10 variables	≤2 secs. typical [2]

NOTE:
1. Graphic display references are cached after the first call up which makes subsequent display call ups faster. Each display in a system is cached after the first call up which means there is no limitation in the number of cached displays. The performance figure reflects a cached display.
2. When a trend display contains OPC string values (engineering units), the call-up time will depend on the OPC server string handling configuration. With the default configuration the call-up time will typically be higher.

Table 3-2 Display Call-up Time

3.2 Related Documents

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

Category	Document	Title
Operation	3BDA033439R5106DE	Bedienen
	3BDA033439R5106EN	Operation
Configuration	3BDA033456R5108EN	Installation and Configuration
	3BDA033440R5104EN	HMI_Analog
	3BDA033441R5104EN	HMI_Dosing Function
	3BDA033442R5104EN	HMI_PID Controller
	3BDA033443R5104EN	HMI_Block Flags
	3BDA033444R5104EN	HMI_Binary
	3BDA033446R5104EN	HMI_IDF
	3BDA033447R5104EN	HMI_SFC
	3BDA033448R5104EN	HMI_Single Flags
	3BDA033449R5104EN	HMI_Timer & Pulse Counter
	3BDA033450R5104EN	HMI_Counter & Totalizer
	3BDA033478R5103EN	HMI_Graphic Properties
	3BDA035329R5103EN	HMI_FreeGraphicElement

Table 3-3 Related Documents

4. Product Support

4.1 Modifications against previous version

- Change Password Tool implemented. For more info refer to 3BDA033456R5108EN Installation and Configuration and 3BDA033439R5106EN_Operation
- Temporary Corrections TC1, TC2, TC3 and some other improvements implemented
- Graphic Element mapping implemented. This allows to VB graphics to PG2 graphics by means of the 800xA migration tool.

4.2 Fixed Problems and improvements

The table below lists the problems corrected in this Temporary Correction and briefly explains the fix or workaround for each problem.

Issue	Correction or Fix
IDF HPHMI faceplate: On/Off buttons may not operable in certain cases (Classic PG2 faceplate is working) *ID: MEL-FP-055*	Fixed with TC1
ANMON/ANOUT/APID HPHMI Faceplate: The MAN/AUT respectively the alternative value switchover buttons are visible even if the ATV/SET is not set (Operation of ATV is not possible) *ID: MEL-FP-056*	Fixed with TC1
APID Graphic elements: Icons for auto and cascade do not correspond to the defined GE position. *ID: MEL-GE-058*	Fixed with TC1
IDF: The output state indication does not change in the faceplates *ID: MEL-FP-057, MEL-FP-065*	Fixed with TC2
SFC and IDF: Off, On, and Stop Button not working *ID: MEL-FP-061*	Fixed with TC2
IDF: On and Off buttons are disabled if both feedbacks are active *ID: MEL-FP-064 and MEL-FP-064 HPHMI*	Fixed with TC2
SFC and SFC-Phase Faceplate: SFC-Viewer callup button doesn't work in German environment (PG2 Classic and HPHMI) *ID: MEL-FP-066 and MEL-FP-66 HPHMI*	Fixed with TC2
GE (all pump symbols): Symbol selection "ExcentricScrew" does not work *ID: MEL-GE-70 and MEL-GE-70 HPHMI*	Fixed with TC3
HPHMI Dosing faceplate: PV and SP value in the trend display seems to be swapped *ID: HF MEL-FP-71HPHMI*	Fixed with TC3
SFC: Tipp-Buttons are disabled if INHI is set *ID: MEL-FP-73 and MEL-FP-73 HPHMI*	Fixed with TC3

Issue	Correction or Fix
IDF (maybe also SFC, APID): PC faceplate setting not working correctly on classic PG2 faceplates, on HPMI faceplates it is missing *ID: MEL-FP-77 and MEL-FP-77 HPHMI*	Fixed with TC3
IDF + APID + SFC: PC faceplate setting aspects are missing *ID: MEL-FP-78*	Fixed with TC3
AnalogOut: Uncertain indication is visible if alternative value is set *ID: MEL-FP-79*	Fixed with TC3
APID: Reset of substitute value is not working *ID: MEL-FP-80*	Fixed with TC3
SFC Faceplate: The field where the time values and step texts are displayed is too small to be indicated. *ID: MEL-FP-81 and MEL-FP-81 HPHMI*	Fixed with TC3 Only the most significant digits are displayed - mo:hh:mm.ss will be shorten to mo:hh:mm Longer step text is cut and marked with dots. The complete text can be looked up on tooltips.
HPHMI: Graphic element idf_HPHMI_flap and binmon_HPHMI_i5_valve was not provided *ID: MEL-GE-054*	Missing GEs implemented
The property “CMD1/SIG” in the faceplate element “idf_FE_HPHMI_Status” wrongly mapped *ID: MEL-FP-065*	fixed
Graphic Element idf_HPHMI_text: StatusIndication is behind the numeric value. Must be changed to be in front. *ID: MEL-GE-067*	fixed
GE anmon_valve_PG2: ValvePalette is not working *ID: MEL-GE-069*	fixed
Operator actions are also executed when the mouse pointer clicks an empty space inside the button area instead of the Apply button. *ID: MEL-FP-075*	fixed, also with PCFaceplateElementsLib 1-0-1 TC1.afw
APID: Calculation of VD value is not correct (faceplate parameters) *ID: MEL-FP-083, MEL-FP-083 HPHMI*	fixed
All classic GE: After update to 5.1 FP4 RevD (or 5.1 RevD) graphics became inoperable if in one or more GE’s the property StatusIndWidth is set to 0 *ID: MEL-GE-084*	fixed
Improvement to ID: MEL-FP-81 and MEL-FP-81 HPHMI *ID: MEL-FP-85*	fixed
IDF: Element idf_cmd1_op_PG2 doesn’t work *ID: MEL-GE-087*	fixed

Issue	Correction or Fix
HPHMI FP Bar: Several issues regarding changing values directly at the bar graph: Step size not calculated by range, no proper indication movement range is limited *ID: MEL-FP-088*	fixed
BINMON Faceplate element binmon_FE_Main3 PG2: input signal I13 was wrongly mapped *ID: MEL-FP-089*	fixed
Indication for end position OFF and release OFF (R0) in a 1-branch-SFC does not make sense but was shown. *ID: MEL-FP-090*	fixed
The color indication on limits of the HPHMI faceplates was differently between ANMON and APID. *ID: MEL-FP-097*	For all object types limit indication harmonized
APID Para Tab – P –Treatment. It is not possible to set a KP value greater than 1.00 In SV4.0 and SV4.1 only the KP range from 0 to 1 was downloaded into the controller. This is the reason that you had to configure the KPY in this range.	fixed
HPHMI Alarm Indication might slow down the graphic callup times *ID: MEL-GE-098*	fixed

Table 4-1 Fixed Problems

4.3 Known Issues

Category	Description	Remarks
General:	The PC Toolkit Library provides a number of preconfigured templates for alarm and event lists. In the actual version for 5.1 the templates for all alarm and event lists do not have the required columns anymore. The columns have to be configured manually for each project. PC Toolkit Library in mixed Systems with AC800F and Melody The column mapping in the alarm page is not harmonized in mixed systems with Melody and Freelance 800F. This is however possible by means of a manual workplace customization. *ID: MEL-ALM-048*	Contact your ABB representative or DEATG/CE
Faceplate	If Measuring Range Start > Measuring Range End, the bar graphs for analog faceplates are not displaying the values.	Negative values cannot be displayed in faceplates
	The main view does only show this icon for “operator note” on the extended view and not on the main view 	No space to show up this icon in the main view.

Category	Description	Remarks
	APID: A problem with APID's was observed that when ARN = 1 in Composer. This is not visible when ARN=0 but when we set it to 1 the symbol is shown, is this correct behavior.	The symbol indicates that the binary signal TFNO is true. Refer to Melody Documentation Technical Information 30/72-2890: Functional Module : APID – Advanced controller function, Chapter 4 – Detailed function description, Control deviation, time function
	APID: The buttons for setting KP, TI+/TI -, VD+/VD- and TD +/TD – are not visible for APID-tags loaded	Work around: Enabling buttons for set gain- and time parameters in APID faceplate for already loaded tags 1. Change the update rule field for the following two records in the Converter database (table MapAtom) from "insert" to "always" (Insert means only the first time a tag will create, the signal is set). The view below is filtered! 2. Be sure that "Additional Signals (Batch, APID)" is checked in the Operations Code Generation or Commissioning dialog
	APID: Symbols for Output limitation "><" are visible on some main faceplates even if Limiting is not enabled on YPAR.	It is mandatory that YHY or YLY is within the measuring range of YAY (mostly 0-100%) and the signal designator is not zero.
	APID: If WHY/WLY signal is not configured or not connected, the setpoint adjustment in the faceplate does not work. *ID: MEL-FP-086*	To be noticed: Incorrect or not connected values in the Composer may lead to wrong indication and even to invalid operation.
	SFC Faceplate: Long step texts exceed the available field *ID: MEL-FP-082*	The complete long text is shown by the Tool Tip
Help Aspect	The aspect „PC Help – Melody Object Status.pdf" is only available in English and marked as Draft. *ID: MEL-COM-047*	For a Workaround refer to chapter 5.20 in 3BDA033456R5108_ Installation and Configuration
Backup	When starting a system backup warnings may appear pointing to the ATPC.ocx control	Register ATPC.ocx control. Refer to 3BDA033456R5108EN_ Installation and Configuration

Table 4-2 Known Issues

4.4 Technical Support

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

4.5 How to obtain

Product Marketing/ TechSalesSupport and Order placement: DEATG/CE; mailto:tech-support-system-solution@de.abb.com.

License cost is outlined in the Price List 3BDA033517K_PriceBook_SystemSolutions

4.6 Deliverables

CD-Rom or DVD Medium with PC Toolkit Library for Melody and product documentation in English and German. (German language for Operation manual only).

5. Revisions

Rev. ind.	Chapter	Description	Date/Init.
-d1	All	Created	17.02.2011/MO
-		Reviewed and approved for V5.0	09.03.2011/FB
A		Adapted and approved for V5.1	22.03.2011/FB
A	Ch 6.2.8 Ch 6.2.9	Known problems extended	12.05.2011/DW
A	Ch 6.2.9	Path corrected	30.05.2011/FB
Ad1		New version 5.1-1 with HP HMI	21.06.2011/FB
B		Release	22.05.2011/FB
Bd1		Adapted to release V5.1-2	23.11.2011/FB
C	No change	Released	28.11.2011/FB
Dd1		Adapted to release V5.1-3	01.11.2012/FB
D		Reviewed and Released for V5.1-3	22.11.2012/FB
E	Table 2.3	Build number adapted	23.10.2013/FB
F		Released for PC TKL V5.1-4	06.06.2016/FB

Table 5-1 – Revision

3BDA033529R5108 Germany 2016-06-06

BU Oil, Gas and Chemicals
Frankfurt, Germany
www.abb.com/Chemicals