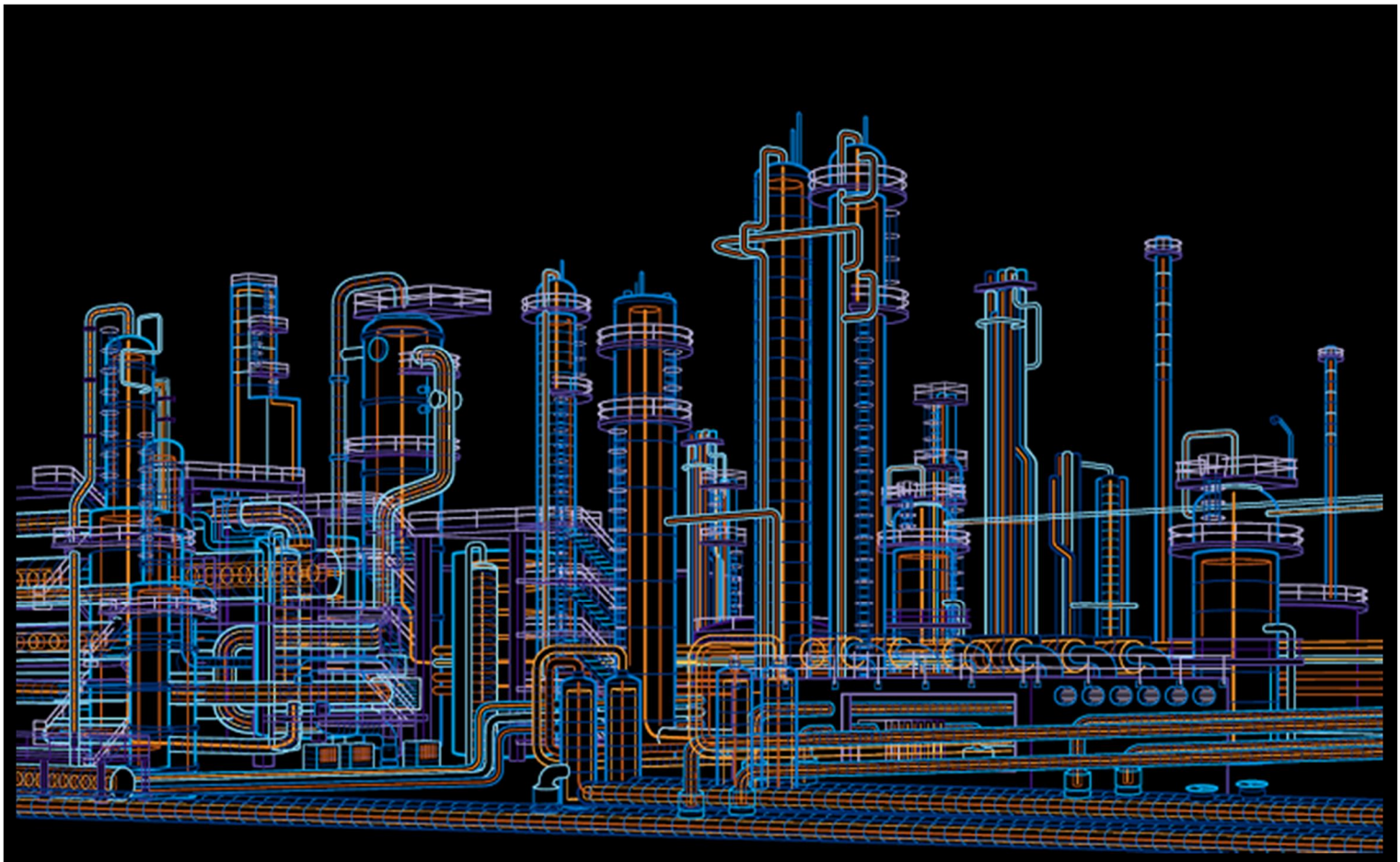

System 800xA
PC Toolkit Library for Melody V6.0-0
Release Notes

System Version 6.0

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.

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.

The software described in this document is furnished under a license and may be used, copied, or disclosed only in accordance with the terms of such license.

TRADEMARKS

All rights to copyrights, registered trademarks, and trademarks reside with their respective owners.

Copyright © 2015 by ABB.

All rights reserved.

Release: 2015-12-10

Document Number: 3BDA033529-600

Table of Content:

1. Release Notes 4
1.1 General 4
1.2 Safety Notices 4
1.3 Use of Caution, Information, and Tip Icons 5
2. Functionality 6
2.1 The PC Toolkit Library for Melody comprises 6
2.2 Following optional software packages are available 6
2.3 Versioning 6
2.4 Conditions, Restrictions and Remarks 7
2.5 Related Documents 8
3. Product Support 9
3.1 New Features 9
3.2 Fixed Problems and improvements with TC1 – TC3 9
3.3 Additional fixes and improvements 10
3.4 Known Problems 12
3.5 Technical Support 13
3.6 How to obtain 13
3.7 Deliverables 13
4. Revision 14

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.

This document describes the functionality introduced for the PC Toolkit Library for Melody Version V6.0-0. 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. Known Problems are divided into categories by individual Functional Area or product.

1.2 Safety Notices

This product is designed to be connected to and to communicate information and data via a network interface. It is the reader's sole responsibility to provide and continuously ensure a secure connection between the product and the reader's network or any other network (as the case may be). The reader shall establish and maintain any appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of anti-virus programs, etc) to protect the product, the network, its system and the interface against any kind of security breaches, unauthorized access, interference, intrusion, leakage and/or theft of data or information. ABB is not liable for damages and/or losses related to such security breaches, any unauthorized access, interference, intrusion, leakage and/or theft of data or information. Refer also to standard document System 800xA 6.0 Administration and Security. Document Number 3BSE037410-600.

Install the software within the design limitations as described in the installation and upgrade instructions. This software is designed to operate within the specifications of the 800xA. Do not install this software to systems that exceed these limits.

These Release Notes are written only for qualified persons and are not intended to be a substitute for adequate training and experience in the safety procedures for installation and operation of this software. Personnel working with this software must also exhibit common sense and good judgment regarding potential hazards for themselves and other personnel in the area. Should clarification or additional information be required, refer the matter to your ABB sales representative and/or local representative.

File these Release Notes with other instruction books, drawings, and descriptive data of the 800xA. Keep these release notes available for the installation, operation and maintenance of this equipment. Use of these release notes will facilitate proper operation and maintenance of the 800xA and its software and prolong its useful life. All information contained in release notes are based on the latest product information available at the time of printing. The right is reserved to make changes at any time without notice.

1.3 Use of Caution, Information, and Tip Icons

This publication includes **Caution** and **Information** where appropriate to point out safety related or other important information. It also includes **Tip** to point out useful hints to the reader. The corresponding symbols should be interpreted as follows:

Caution icon indicates important information or warning related to the concept discussed in the text. It might indicate the presence of a hazard which could result in corruption of software or damage to equipment/property.

Information icon alerts the reader to pertinent facts and conditions.

Tip icon indicates advice on, for example, how to design your project or how to use a certain function

Although **Caution** hazards are associated with equipment or property damage, it should be understood that operation of damaged equipment could, under certain operational conditions, result in degraded process performance leading to personal injury or death. Therefore, comply fully with all **Caution** notices.

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.

2.1 The PC Toolkit Library for Melody comprises

Package	Description
Basis	▪ Pre configured 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 Update Checker Tool.

Table 2-1 Contents of the Basis software package

2.2 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

2.3 Versioning

Software Package	**Version**
PC Graphic Object Types	6.0-1 (Build: 6.0.1.0)
PC Tools	6.0-1 (Build: 6.0.1.0)
PC Workplace	6.0-1 (Build: 6.0.1.0)
PC Melody Setup	6.0-0 (Build: 6.0.0.0)
PC Melody HP-HMI Add On	6.0-0 (Build: 6.0.0.0)

Table 2-3 Software package version

2.4 Conditions, Restrictions and Remarks

The PC Toolkit Library for Melody 6.0-0 has been released for delivery and plant operation. The above system extension was tested under the system environment for an 800xA System Version 6.0 with 800xA for Melody.

- Graphic displays that were created under Visual Basic Graphic Editor are no longer supported. A migration tool is available, which is part of the 800xA base product. The migration work has to be performed within System 800xA SV5.1 environment.
- 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 classic faceplates cannot be customized anymore regarding button style, step size, etc.) as it was possible in earlier versions.
- Refer to document 3BDA033456-600 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 3BSE041434-600 System 800xA 6.0 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
SFCViewer as Graphic display - SFCViewer up to 20 Steps SFCViewer up to 200 Steps	<=1secs <=3 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 2-4 Display Call-up Time

2.5 Related Documents

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

Category	Document	Title
Operation	3BDA033439-600	Handbuch Bedienen
	3BDA033439-600	Manual Operation
Configuration	3BDA033456-600	Installation and Configuration Melody
	3BDA033440-600	HMI_Analog
	3BDA033441-600	HMI_Dosing Function
	3BDA033442-600	HMI_PID Controller
	3BDA033443-600	HMI_Block Flags
	3BDA033444-600	HMI_Binary
	3BDA033446-600	HMI_IDF
	3BDA033447-600	HMI_SFC
	3BDA033448-600	HMI_Single Flags
	3BDA033449-600	HMI_Timer & Pulse Counter
	3BDA033450-600	HMI_Counter & Totalizer
	3BDA033478-600	HMI_Graphic Properties
	3BDA035329-600	HMI_FreeGraphicElement

Table 2-5 Related Documents

3. Product Support

3.1 New Features

Category	Feature	Remarks
Gen	Supporting system 800xA Version 6.0	
Gen	Migration info for VB6->PG2 migrations tool is now defined *ID MEL-GE-095*	This allows to convert VB graphics by means of the migration tool

3.2 Fixed Problems and improvements with TC1 – TC3

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*	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-FP-70 and MEL-FP-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
IDF (maybe also SFC, APID): PC faceplate setting not working correctly on classic PG2 faceplates, on HPMI faceplates it is missing	Fixed with TC3

Issue	Correction or Fix
ID: *MEL-FP-77 and MEL-FP-77 HPHMI*	
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 entire text can be looked up on tooltips.

Table 3-1 Fixed Problems TC1-TC3

3.3 Additional fixes and improvements

Issue	Correction or Fix
Graphic Elements idf_HPHMI_flap and binmon_HPHMI_i5_valve *ID MEL-GE-054*	added
The faceplate element "idf_FE_HPHMI_Status" uses the property "OC1/SIG". This property is not supported by Melody. To show the output status of the IDF the property "CMD1/SIG has been used instead" *ID MEL-FP-065, ID MEL-FP-057*	fixed
Graphic element anmon_valve_PG2 was not working properly *ID MEL-GE-069*	fixed
After selecting one button and subsequently clicking on an empty field within the button area (not the Apply button), the action will be acknowledged! *ID MEL-FP-075*	fixed
APID: VD value is not correctly calculated (faceplate parameters) *ID MEL-FP-083*	fixed
All classic GE: After updating the PC Toolkit Library to 800xA 5.1 FP4 RevD (or 5.1 Rev D) graphics became inoperable if in one or more GE's the property StatusIndWidth is set to 0 *ID MEL-GE-084*	fixed

Issue	Correction or Fix
SFC Faceplate: The field of the total runtime was too small), if runtime is about one year. *ID MEL-FP-085*	Fixed Only the most significant digits are displayed – mo:hh:mm.ss will be shorten to mo:hh:mm .
APID: Values that are not linked to a connector in the function diagram may cause wrong indication or operation. For example if the WHY/WLY signal is not configured, the setpoint adjustment in the faceplate may be incorrect. *ID MEL-FP-086*	fixed
IDF: Graphic element idf_cmd1_op_PG2 did not work properly *ID MEL-GE-087*	fixed
In certain circumstances the slider (e.g. W or Y) hangs on the mouse will change the mouse movement whenever the mouse is over the faceplate sweeps. Even if a different faceplate has the focus. Step size was not calculated by range, and the movement range indication was limited. *ID MEL-FP-088*	fixed
BINMON Faceplate element binmon_FE_Main3 PG2: for signal I13 the I1/SIG0 is used (correct I13/SIG0) *ID MEL-FP-089*	fixed
One branch SFC: Release off indication and off button can be hidden. *ID MEL-FP-090*	fixed
Different limit indication in HPHMI FP of ANMON and APID if a limit is violated and it is only configured as event (Alarm typical = Z…). Refers also to ANOUT, Totalizer and all HPHMI bargraph GE's *ID MEL-FP-097*	fixed
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
The aspect „PC Object Type Help“ was not working, Help document missing, NLS not provided. *ID MEL-COM-047*	Fixed Refer to update procedure in document 3BDA033456-600 Installation and Configuration
Aspect „PC Help – Melody Object Status.pdf“ is only available in English and marked as Draft. *ID: MEL-COM-047*	Fixed Refer to document 3BDA033456-600 Installation and Configuration
HPHMI Alarm Indication might slow down the graphic callup times *ID: MEL-GE-098*	fixed

Table 3-2 Additional fixes and improvements

3.4 Known Problems

Category	Description	Remarks
General:	The PC Toolkit Library provides a number of preconfigured templates for alarm and event lists. These templates require customization. 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. *ID MEL-GE-043*	Negative values cannot be displayed in faceplates
	The icon for "operator note" is shown only in the extended faceplate view	No space to show up this icon in the main view.
	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.

Table 3-3 Known Problems

3.5 Technical Support

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

3.6 How to obtain

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

License cost is outlined in the Price List 3BDA033517I_PriceBook_SystemSolutions

3.7 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).

4. Revision

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		Adapted, reviewed and approved for V6.0-0	15.12.2015/FB

Table 4-1 – Revision

3BDA033529-600 Germany 2015-12-10

Copyright © 2003-2015 by ABB. All Rights Reserved
® Registered Trademark of ABB.
™ Trademark of ABB.

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