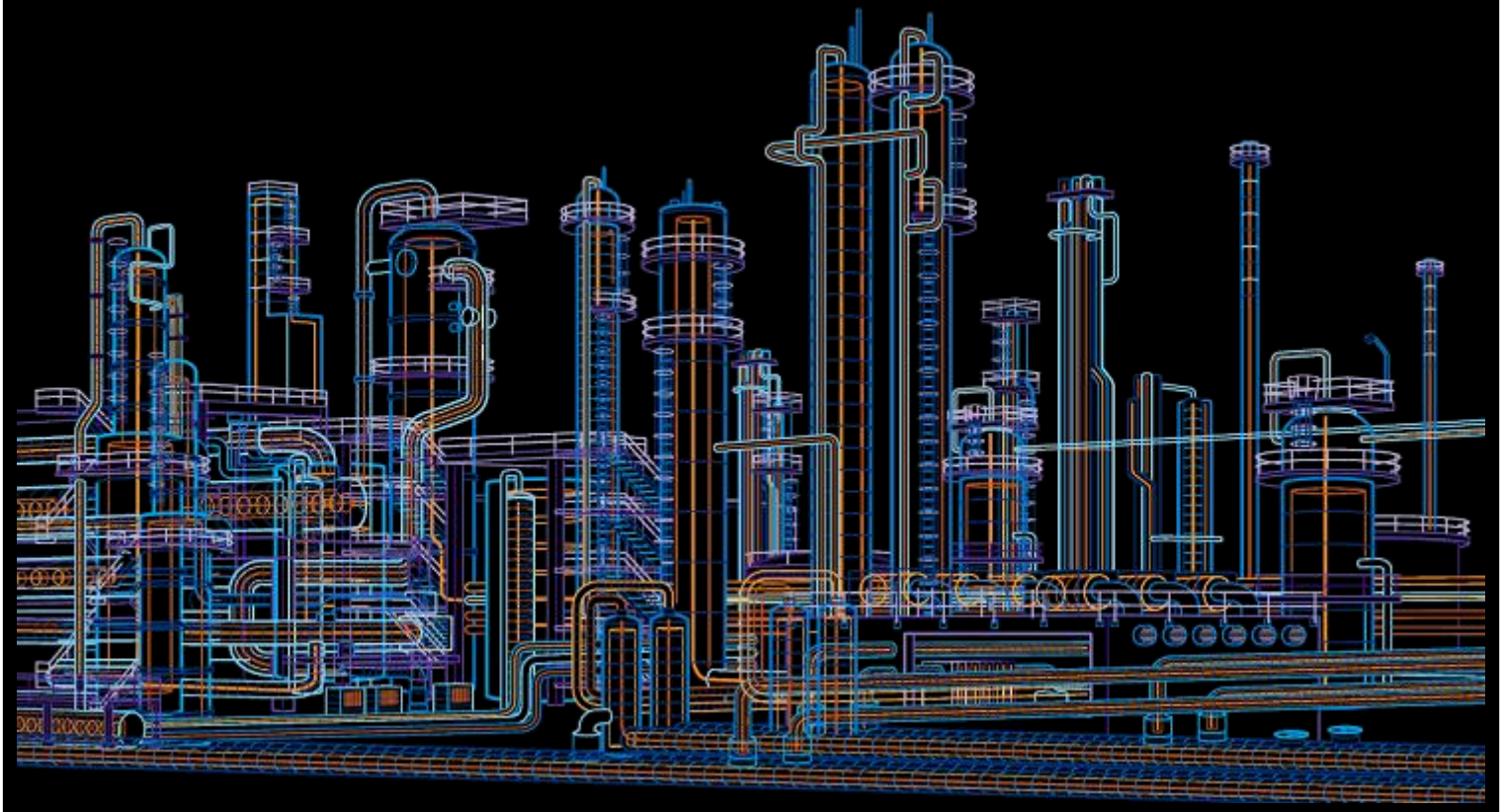

System 800xA
PC Toolkit Library for Melody V5.1-3
Release Notes

System Version 5.1

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Document number: 3BDA033529R5106EN_Release Notes PC Toolkit Library for Melody

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1. Release Notes

Introduction

This document represents the release notes for PC Toolkit Library for Melody Version V5.1-3

This document describes the functionality introduced for this product in this release. 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.

Release Notes Safety Notices

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.

2. Functionality

The PC Toolkit Library for Melody is a system extension for 800xA System. It consists of a Basic set which is mandatory when building graphic displays and when Faceplates are required. Additional optional packages are available. The PC Toolkit Library for Melody/AC870P is harmonized with GE's for Freelance/AC800F and AC800M.

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.

Table 2-1 Contents of the Basis software package

2.2 Following optional software packages are available

Packages	Description
PC Tools	PC Tools facilitates interoperability configuration through the automated generation during engineering. It includes Aspect link, Link Generator and SFC Step Text Uploader.
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	5.1-0 (Build: 5.1.4679.15298)
PC Tools	5.0-4 (Build: 5.00.4103)
PC Workplace	5.1-2 (Build: 5.1.4679.15281)
PC Melody Setup	5.1-3 (Build: 5.1.4679.15377)
PC Melody HP-HMI Add On	5.1-3 (Build: 5.1.4679.16802)

Table 2-3 Software package version

2.4 Conditions, Restrictions and Remarks

The PC Toolkit Library for Melody Version 5.1-3 has been released for delivery and plant operation. The above system extension was tested under the system environment for an 800xA System Version 5.1RevA (32bit/64bit) with 800xA for Melody.

- 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 (button style, step size, etc.) as it was possible in earlier versions and described in section 4.13 of document 3BDA033456R5106EN_Installation and Configuration Melody (of version V5.1-2).

- Refer to section 4.1 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 2-4 Display Call-up Time

3. Related Documents

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

Category	Document	Title
Operation	3BDA033439R5105DE	Bedienen
	3BDA033439R5105EN	Operation
Configuration	3BDA033456R5107EN	Installation and Configuration
	3BDA033440R5103EN	HMI_Analog

Category	Document	Title
	3BDA033441R5103EN	HMI_Dosing Function
	3BDA033442R5103EN	HMI_PID Controller
	3BDA033443R5103EN	HMI_Block Flags
	3BDA033444R5103EN	HMI_Binary
	3BDA033446R5103EN	HMI_IDF
	3BDA033447R5103EN	HMI_SFC
	3BDA033448R5103EN	HMI_Single Flags
	3BDA033449R5103EN	HMI_Timer & Pulse Counter
	3BDA033450R5103EN	HMI_Counter & Totalizer
	3BDA033478R5102EN	HMI_Graphic Properties
	3BDA035329R5102EN	HMI_FreeGraphicElement

Table 3-1 Related Documents

4. Updating

All older packages of the PC setup for Melody have to be uninstalled manually before the new installation.

4.1 Updating 800xA SV4.x with Melody Faceplates

The style of the Melody Faceplates in 800xA System version SV4.x was close to the faceplate style of Process Portal B and is different to the style now.

As from SV5.x the faceplates for AC800M, Freelance and Melody/AC870P were harmonized. Operators should therefore be instructed to get used to the new faceplates.

4.2 PC Setup for Melody < V5.0-3

Graphic displays which were created under Visual Basic Editor (VB) require a migration, provided the graphics need to be modified. Without migration they can only be viewed.

The VB library (GE's) is still available on the CD/DVD medium but require a manual loading in case it is required. Refer to document 3BDA033456R5107 Installation and Configuration.

Simultaneous usage of both Graphic Editors respectively their displays in the same system is possible, but is not recommended.

Modifications on elements are overridden when PC Toolkit Library for Melody is being loaded. It is therefore mandatory to either copy an element before modifying it or save all customer specific modified elements before reloading PC Toolkit Library.

Customization of the faceplates which was possible in Version <5.1-3 (e.g. style of the buttons) is no longer supported.

4.3 Installing PC Toolkit Library into a 64-bit Windows operating system

The path to the application "PC Faceplate Link Creator" in the root of the functional structure is valid for 32-bit Windows Operating System. In a 64-bit Windows Operating System the path may be changed manually to C:\Programm Files (x86)\...

5. Product Support

5.1 New Features

Category	Feature	Remarks
Classic Faceplates	Classic Faceplates now in PG2 available *MEL-FP-024*	Refer to section 2.4 Conditions, Restrictions and Remarks

5.2 Fixed Problems and improvements

Category	Description	Remarks
Faceplate	ANMON Faceplate: The good-range rectangle is in the background of the other limits and is hided. *ID: MEL-FP-010*	fixed
	APID FP: The physical unit and the range is correct for the PV value but not for setpoint and output. *ID: MEL-FP-014*	fixed
	ANMON FP: The 2nd icon in the indication line is not visible (gray dotted line indicating missing property) *ID: MEL-FP-015*	fixed
	APID FP: The 4th icon in the indication line is not visible (gray dotted line indicating missing property) *ID: MEL-FP-016*	fixed
	APID FP: setpoint and output limitations are not visible on the bargraph in HP HMI FP *ID: MEL-FP-022*	fixed
	APID FP: time parameters are not changeable due Min/Max values for TI.. and TD… values are always 0 *ID: MEL-FP-023*	fixed
	DOSING FP: Out indication is not shown in the HP Faceplate *ID: MEL-FP-027*	fixed
	SFC faceplate: New start time needs to be set in UTC *ID: MELSFC-28*	fixed
	APID, ANMON: Dotted line indicating some missing status indication *ID: MEL-FP-034*	fixed
	ANMON FP: When limit is less than min range it is shown under bargraph *ID: MEL-FP-037*	fixed
Free Graphic	Radar diagrams: Background color of the radar diagram element inside our element has to be set to transparent and OutsideLimitsPen should be changed to DimGray or made be available as input property. *ID: MEL-GE-009*	fixed
Graphic Element	Good range indication in HPHMI bargraphs exceed the GE area if set outside the range *ID: MEL-GE-011*	fixed
	The aspect view "faceplate selection" in the graphical element "idf_pump_PG2" is wrong. *ID: MEL-GE-012*	fixed
	Most of the graphical elements for operation/ command buttons "op" are not operable and have no function.	fixed

Category	Description	Remarks
	ID: MEL-GE-013	
	The PG2 button elements have to redesigned (current version is not working) *ID: MEL-GE-019*	fixed
	All GE's (HPHMI+Classic) must be changed to new Default Action Invoker *ID: MEL-GE-020*	fixed
	OPC Items for GE's read reduced *ID: MEL-GE-021*	fixed
	Status indication: Some graphic elements show “S” for simulated instead of “SI” *ID: MEL-GE-026*	fixed
	SFC time graphic elements (standard and HPHMI), TRC, TRM, TRS, TRW: Indication of day values is missing *ID: MEL-GE-029*	fixed
	Dosing: GE dos_wy_numeric_op_PG2 opens the faceplate after a short time. Only the DEW should be called! *ID: MEL-GE-030*	fixed
	No “Z” Symbol for Binary Monitor available (as for AC800M) *ID: MEL-GE-031*	fixed
	ANMON HPHMI FP: PC HPHMI Settings MaxAlarms - AlarmControlPrioSettings seems not to be used in Alarm Indications *ID: MEL-GE-033*	fixed
	PC Value Text 1Bit (ToolBox) existing two times *ID: MEL-GE-035*	fixed
	APID: The limits in the graphics are displayed in white and in the faceplate with alarm color *ID: MEL-GE-036*	fixed
	In the faceplate the dotted line changes its color when violated. In the graphic element it doesn't. *ID: MEL-GE-038*	fixed
	Valves and motor graphic elements should be configurable to have different colors as binary values (e.g. when a binary value is logical 1 the element has to be white but valves and motors should be white when they are closed/stopped) *ID: MEL-GE-039*	fixed
	Valves and motor symbols in faceplates should be configurable to have different colors as binary values (e.g. when a binary value is logical 1 the element has to be white but valves and motors should be white when they are closed/stopped) *ID: MEL-GE-040*	fixed
	PC Alarm Color Definition: Missing Colors for InactiveAckedText and InactiveAckedBg result in missing / grey or white priority text in event list history for inactive and acknowledged alarms. *ID: MEL-COM-045*	fixed
Group Display	View Class Group Display is not working. Only the first group display opens correctly, second group display opens inside first one. *ID: MEL-COM-046*	fixed
PC Tools	PC Faceplate Link Creator: The path to the windows application in the root of the functional structure is wrong. *ID: MEL-Tool-25*	fixed

Table 5-1 Fixed Problems

5.3 Known Problems

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/CES
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.
	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	It is mandatory that YHY or YLY is within the measuring range of YAY (mostly 0-100%) and the signal

Category	Description	Remarks
	Limiting is not enabled on YPAR.	designator is not zero.
	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.	Work around: KPY of the APID is set to the measuring range when opened first. You have to define your range of KPY manually. If you want to change it back to other ranges, you can use the signal selection window with a filter to search for signal KPY01, export it to Excel, modify KPY and re-import the file into Composer. You can do this for all Controllers in one step.
Help Aspect	The aspect „PC Object Type Help“ is not working, help document missing, NLS not provided. *ID: MEL-COM-047*	The faceplate aspect „PC Object Type Help“ must be hidden for the operator in the aspect filter configuration.
Help Aspect	Aspect „PC Help – Melody Object Status.pdf“ is only available in English and marked as Draft. *ID: MEL-COM-047*	
Backup	When starting a system backup warnings may appear pointing to the ATPC.ocx control	Register ATPC.ocx control. Refer to 3BDA033456R5107EN_Installation and Configuration Melody

Table 5-2 Known Problems

5.4 Technical Support

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

5.5 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 3BDA033517E_PriceBook_SystemSolutions

5.6 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).

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