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

System Version 6.0
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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.

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

<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
</table>
| 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

<table>
<thead>
<tr>
<th>Packages</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP HMI</td>
<td>Leverages and expands the capabilities of traditional Graphic Elements and Faceplates. It provides technologies to make operator workplace safe and efficient.</td>
</tr>
</tbody>
</table>

*Table 2-2 Optional software package*

2.3 Versioning

<table>
<thead>
<tr>
<th>Software Package</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC Graphic Object Types</td>
<td>6.0-1 (Build: 6.0.1.0)</td>
</tr>
<tr>
<td>PC Tools</td>
<td>6.0-1 (Build: 6.0.1.0)</td>
</tr>
<tr>
<td>PC Workplace</td>
<td>6.0-1 (Build: 6.0.1.0)</td>
</tr>
<tr>
<td>PC Melody Setup</td>
<td>6.0-0 (Build: 6.0.0.0)</td>
</tr>
<tr>
<td>PC Melody HP-HMI Add On</td>
<td>6.0-0 (Build: 6.0.0.0)</td>
</tr>
</tbody>
</table>

*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)

<table>
<thead>
<tr>
<th>Graphic Displays</th>
<th>Display Call-Up Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Display with maximum 800 OPC items (100 objects)</td>
<td>&lt;=1 secs¹</td>
</tr>
<tr>
<td>Group Display with 10 faceplates</td>
<td>&lt;=5 secs</td>
</tr>
<tr>
<td>Faceplate</td>
<td>&lt;=1 secs</td>
</tr>
<tr>
<td>Extended Faceplate</td>
<td>&lt;=2 secs</td>
</tr>
<tr>
<td>SFCViewer as Graphic display - SFCViewer up to 20 Steps</td>
<td>&lt;=1 secs</td>
</tr>
<tr>
<td>SFCViewer up to 200 Steps</td>
<td>&lt;=3 secs</td>
</tr>
<tr>
<td>Trend Display, at first call-up of trend with 10 variables</td>
<td>&lt;=2 secs typical²</td>
</tr>
</tbody>
</table>

**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.

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

*Table 2-5 Related Documents*
3. Product Support

3.1 New Features

<table>
<thead>
<tr>
<th>Category</th>
<th>Feature</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gen</td>
<td>Supporting system 800xA Version 6.0</td>
<td></td>
</tr>
<tr>
<td>Gen</td>
<td>Migration info for VB6-&gt;PG2 migrations tool is now defined</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ID MEL-GE-095</td>
<td>This allows to convert VB graphics by means of the migration tool</td>
</tr>
</tbody>
</table>

3.2 Fixed Problems and improvements

<table>
<thead>
<tr>
<th>Issue</th>
<th>Correction or Fix</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDF HPHMI faceplate: On/Off buttons may not operable in certain cases (Classic PG2 faceplate is working)</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-055</td>
<td>Fixed with TC1</td>
</tr>
<tr>
<td>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)</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-056</td>
<td>Fixed with TC1</td>
</tr>
<tr>
<td>APID Graphic elements: Icons for auto and cascade do not correspond to the defined GE position.</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-GE-058</td>
<td>Fixed with TC1</td>
</tr>
<tr>
<td>IDF: The output state indication does not change in the faceplates</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-057</td>
<td>Fixed with TC2</td>
</tr>
<tr>
<td>SFC and IDF: Off, On, and Stop Button not working</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-061</td>
<td>Fixed with TC2</td>
</tr>
<tr>
<td>IDF: On and Off buttons are disabled if both feedbacks are active</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-064 and MEL-FP-064 HPHMI</td>
<td>Fixed with TC2</td>
</tr>
<tr>
<td>SFC and SFC-Phase Faceplate: SFC-Viewer callup button doesn't work in German environment (PG2 Classic and HPHMI)</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-066 and MEL-FP-66 HPHMI</td>
<td>Fixed with TC2</td>
</tr>
<tr>
<td>GE (all pump symbols): Symbol selection “ExcentricScrew” does not work</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-70 and MEL-FP-70 HPHMI</td>
<td>Fixed with TC3</td>
</tr>
<tr>
<td>HPHMI Dosing faceplate: PV and SP value in the trend display seems to be swapped</td>
<td></td>
</tr>
<tr>
<td>ID: HF MEL-FP-71HPHMI</td>
<td>Fixed with TC3</td>
</tr>
<tr>
<td>SFC: Tipp-Buttons are disabled if INHI is set</td>
<td></td>
</tr>
<tr>
<td>ID: MEL-FP-73 and MEL-FP-73 HPHMI</td>
<td>Fixed with TC3</td>
</tr>
<tr>
<td>IDF (maybe also SFC, APID): PC faceplate setting not working correctly on classic PG2 faceplates, on HPMI faceplates it is missing</td>
<td></td>
</tr>
<tr>
<td>Fixed with TC3</td>
<td></td>
</tr>
</tbody>
</table>
ID: MEL-FP-77 and MEL-FP-77 HPHMI

<table>
<thead>
<tr>
<th>Issue</th>
<th>Correction or Fix</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDF + APID + SFC: PC faceplate setting aspects are missing</td>
<td>Fixed with TC3</td>
</tr>
<tr>
<td>ID: MEL-FP-78</td>
<td></td>
</tr>
<tr>
<td>AnalogOut: Uncertain indication is visible if alternative value is set</td>
<td>Fixed with TC3</td>
</tr>
<tr>
<td>ID: MEL-FP-79</td>
<td></td>
</tr>
<tr>
<td>APID: Reset of substitute value is not working</td>
<td>Fixed with TC3</td>
</tr>
<tr>
<td>ID: MEL-FP-80</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td>Only the most significant digits are displayed - mo:hh:mm:ss will be shortened to mo:hh:mm. Longer step text is cut and marked with dots The entire text can be looked up on tooltips. Fixed with TC3</td>
</tr>
</tbody>
</table>

Table 3-1 Fixed Problems TC1-TC3

3.3 Additional fixes and improvements

<table>
<thead>
<tr>
<th>Issue</th>
<th>Correction or Fix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Elements idf_HPHMI_flap and binmon_HPHMI_i5_valve</td>
<td>added</td>
</tr>
<tr>
<td>ID MEL-GE-054</td>
<td></td>
</tr>
<tr>
<td>The faceplate element &quot;idf_FE_HPHMI_Status&quot; uses the property &quot;OC1/SIG&quot;. This property is not supported by Melody. To show the output status of the IDF the property &quot;CMD1/SIG has been used instead&quot;</td>
<td>fixed</td>
</tr>
<tr>
<td>ID MEL-FP-065, ID MEL-FP-057</td>
<td></td>
</tr>
<tr>
<td>Graphic element anmon_valve_PG2 was not working properly</td>
<td>fixed</td>
</tr>
<tr>
<td>ID MEL-GE-069</td>
<td></td>
</tr>
<tr>
<td>After selecting one button and subsequently clicking on an empty field within the button area (not the Apply button), the action will be acknowledged!</td>
<td>fixed</td>
</tr>
<tr>
<td>ID MEL-FP-075</td>
<td></td>
</tr>
<tr>
<td>APID: VD value is not correctly calculated (faceplate parameters)</td>
<td>fixed</td>
</tr>
<tr>
<td>ID MEL-FP-083</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td>fixed</td>
</tr>
<tr>
<td>ID MEL-GE-084</td>
<td></td>
</tr>
<tr>
<td>Issue</td>
<td>Correction or Fix</td>
</tr>
<tr>
<td>-------</td>
<td>------------------</td>
</tr>
</tbody>
</table>
| SFC Faceplate: The field of the total runtime was too small, if runtime is about one year. | Fixed  
Only the most significant digits are displayed – mo:hh:mm:ss will be shorten to mo:hh:mm. |
| ID MEL-FP-085 |
| 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. | fixed |
| ID MEL-FP-086 |
| IDF: Graphic element idf_cmd1_op_PG2 did not work properly | fixed |
| ID MEL-GE-087 |
| 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. | fixed |
| ID MEL-FP-088 |
| BINMON Faceplate element binmon_FE_Main3 PG2: for signal I13 the I1/SIG0 is used (correct I13/SIG0) | fixed |
| ID MEL-FP-089 |
| One branch SFC: Release off indication and off button can be hidden. | fixed |
| ID MEL-FP-090 |
| 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 | fixed |
| ID MEL-FP-097 |
| 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 |
| ID MEL-FP-090 |
| The aspect „PC Object Type Help“ was not working, Help document missing, NLS not provided. | Fixed  
Refer to update procedure in document 3BDA033456-600 Installation and Configuration |
| ID MEL-COM-047 |
| Aspect „PC Help – Melody Object Status.pdf“ is only available in English and marked as Draft. | Fixed  
Refer to document 3BDA033456-600 Installation and Configuration |
| ID: MEL-COM-047 |

Table 3-2 Additional fixes and improvements
## 3.4 Known Problems

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>General:</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>Contact your ABB representative or DEATG/CE</td>
<td></td>
</tr>
<tr>
<td>Faceplate</td>
<td>If Measuring Range Start &gt; Measuring Range End, the bar graphs for analog faceplates are not displaying the values.</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>Negative values cannot be displayed in faceplates</td>
<td></td>
</tr>
<tr>
<td>Faceplate</td>
<td>The icon for &quot;operator note&quot; is shown only in the extended faceplate view</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>No space to show up this icon in the main view.</td>
<td></td>
</tr>
<tr>
<td>APID:</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>APID:</td>
<td>The buttons for setting KP, TI+/TI-, VD+/VD- and TD+/TD- are not visible for APID-tags loaded.</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>APID:</td>
<td>Symbols for Output limitation &quot;&gt;&lt;&quot; are visible on some main faceplates even if limiting is not enabled on YPAR.</td>
<td></td>
</tr>
<tr>
<td>Remarks</td>
<td>It is mandatory that YHY or YLY is within the measuring range of YAY (mostly 0-100%) and the signal designator is not zero.</td>
<td></td>
</tr>
</tbody>
</table>

*Table 3-3 Known Problems*
3.5 Technical Support

Contact ABB technical support at tech-support-system-solution@de.abb.com or your 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 3BDA0335171_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).