System 800xA
PC Toolkit Library for Freelance V5.1-2
Release Notes

System Version 5.1

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TRADEMARKS

Table of Contents:

1. Introduction

This document represents the release notes for PC Toolkit Library for Freelance Version V5.1-2

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 Freelance is a system extension for System 800xA. It compiles a Basic set and optional packages with graphic elements of classic and high performance style (HPHMI) and a set of faceplates in HPHMI style. PC Toolkit Library for Freelance is applicable for the Process Industry. The Graphic Elements and the high performance Faceplates are harmonized with the object types of AC800M and Melody/AC870P.

The classic faceplates set is part of the software package "800xA for Freelance".

The PC Toolkit Library for Freelance comprises

Package	Description
Base	o Graphic Elements for the majority of the Freelance Function Blocks o Free Graphic Elements that allow showing mass data like radar diagram and profiling indication. o Pre configured one- and two-screen Operator Workplace o PC Tools supports configuration by automatically generating. It includes Aspect link, Link Generator.

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. Release Notes

The PC Toolkit Library for Freelance Version 5.1-2 has been released for delivery and plant operation. The above system extension was tested under the system environment 800xA System Version 5.1FP4RevC with connect to 800xA for Freelance 5.1.0-2

PC Toolkit Library for Freelance Software Packages	Delivery
ABB PC Graphic Object Types 5.1-3 (Build: 5.1.5554.28704)	base
ABB PC Tools 5.1-1 (Build: 5.01.0100)	base
ABB PC Workplace 5.1-3 (Build: 5.1.5554.28682)	base
ABB PC Setup for Freelance 5.1-2 (Build: 5.1.5710.23318)	base
ABB PC Setup for Freelance 5.1-2 HP-HMI Add On (Build: 5.1.5710.22304)	optional

Table 3-1 Released software packages

3.1 Conditions, Restrictions and Remarks

■ PC Toolkit Library for Freelance requires the Graphic Editor PG2

■ 800xA for Freelance 5.1.0/1, 5.1.0-2 or 5.1.0-3 required

■ Graphic displays that were created under Visual Basic require migration. This migration tool is 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.

■ Definition of the decimal placed for numeric values need extra work

Due to a system immanent characteristic the decimal places for numeric graphic elements are calculated by means of the measurement range (MBA / MBE). This and the fact, that for every MBA/MBE a separate OPC group is created, lead to delayed response time. Although the static image is displayed quickly, the life values are shown after a delay. Refer to Release Notes fixed problems ID: F2K-GE-027.

Until Freelance connect software has not changed the characteristic for setting the decimal places the following workaround is given to speed up the graphic displays.

Configuring decimal places using BDM sheet:

• The provided BDM sheet is found in folder C:\Program Files (x86)\ABB Industrial IT\Control IT\ABB PC Setup for Freelance\BDM

• Drag all Freelance Tags into the BDM sheet. Use ALT+F8 to open the macro window and start the marco "CalcFraction". Thus, the fractions are set depending on the measuring range (with the same calculation rule as in the Property Translations aspects).

• After running the BDM macro or writing the values via BDM a manual adjustment of the decimal places is possible directly on the Fraction Definition Aspect of each object.

• If there are project specific graphic elements, all references must be changed from $'.:Property Translation Extended:NO_OF_DEC1' to $'.:Fraction Definition:Fraction' and for the object types L.C_CR and L.C_SR the reference $'.:Property Translation Extended:NO_OF_DEC1_rat' to $'.:Fraction Definition:Fraction_rat'.

3.2 Related Documents

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

Category	Document	Description
Operation	3BDA033438R5102EN 3BDA033438R5102DE	Manual for Operators
Installation and Configuration	3BDA033713R5104EN	PC Toolkit for Freelance – Installation and Configuration
Engineering	3BDA035390R5102EN 3BDA035391R5102EN 3BDA035392R5102EN 3BDA035393R5102EN 3BDA035394R5102EN 3BDA035395R5102EN 3BDA035396R5102EN 3BDA035397R5102EN 3BDA035398R5102EN 3BDA033478R5102EN	HMI_Analog function blocks HMI_Binary function blocks HMI_Monitoring function blocks HMI_Closed Loop Control function blocks HMI_Open Loop Control function block HMI_Constant function blocks HMI_Variables HMI_Batch function block HMI_Sequence Control function block HMI_Graphic Properties

Table 3-2 Related Documentation

4. Product support

4.1 New Features

Description	Remarks
none	

Table 4-1 New Features

4.2 Fixed Problems

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

Issue ID	Correction or Fix
When PC Toolkit library is installed on 800xA for Freelance 5.1.0-2, there are two instances of property translation aspects available for these object types after installation. *ID: F2K-GE-015*	Also part of V5.1-1TC1
When PC Toolkit for Freelance library is installed on a Connectivity Server with 800xA for Freelance 5.1.0-2, the alarm aspects are duplicated. *ID: F2K-GE-017*	Also part of V5.1-1TC1
Long display call up times when HPHMI Alarm Indication Graphic Elements are used. *ID: F2K-GE-025*	Also part of V5.1-1TC2 **Functionality without TC2:** The object PC Customizations was the place to set up the alarm indication properties *HPHMI Alarm Control Show Clear* and *HPHMI Alarm Control MaxPrio.* (Object: Library Structure > Preferences & Customizations > PC Customizations, Aspect: HPHMI Settings) **Functionality with TC2:** The Graphic Element for the HPHMI Alarm indication is now referencing the object PC HPHMI Alarm Indication Settings. In order to set up the behavior of the Alarm Indication Graphic Element edit the Expression Variables *LimitPriorities*, *MaxPriority* and *ShowClearIndication* of the Generic Element. (Object: Graphics Structure > Graphics Tools > PC High Performance HMI Elements > PC HP HMI Alarm Indication Settings, Aspect: PC HP HMI Alarm Indication Settings). **As of 5.1-2** Changing these settings are also available by the 800xA Graphics Settings Editor tool, which is available via the "800xA Graphics Settings Editor" windows application aspect at the root object.

Issue ID	Correction or Fix
After update to 5.1 FP4RevD (or 5.1 RevD) all classic graphics became inoperable if in one or more GE's the property StatusIndWidth is set to zero (0). *ID: F2K-GE-026*	Fixed also with PCGraphicElementsLib 1-0-1 TC1
The decimal places for numeric graphic elements are calculated by means of the measurement range (MBA / MBE). This and the fact, that for every MBA/MBE a separate OPC group is created, lead to delayed response time. The static image is displayed quickly, but the life values are shown after a delay. *ID: F2K-GE-027*	Fixed with workaround After loading of the system extension the number of decimal places for each object must be defined. Refer to section 3.1

Table 4-2 Fixed Problems

4.3 Known Problems

Description	Remarks
none	

Table 4-3 Known Problems

4.4 Technical Support

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

4.5 How to obtain

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

License cost is outlined in the Price List 3BDA033517I_PriceBook_SystemSolutions

4.6 Deliverables

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