

System 800xA

Release Notes

New Functions and Known Problems

System Version 6.0.1

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About This Release Note

General



Any security measures described in this Release Note, for example, for user access, password security, network security, firewalls, virus protection, etc., 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 release note describes the new functionalities and the known problems for the current revision of System 800xA 6.0.

Release Note Conventions

Microsoft Windows conventions are normally used for the standard presentation of material when entering text, key sequences, prompts, messages, menu items, screen elements, etc.

Warning, Caution, Information, and Tip Icons

This Release Note includes Warning, 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:



Electrical warning icon indicates the presence of a hazard that could result in *electrical shock*.



Warning icon indicates the presence of a hazard that could result in *personal injury*.



Caution icon indicates important information or warning related to the concept discussed in the text. It might indicate the presence of a hazard that 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 Warning hazards are related to personal injury, and 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, fully comply with all Warning and Caution notices.

Terminology

A complete and comprehensive list of terms is included in *System 800xA System Guide Functional Description (3BSE038018*)*. The listing includes terms and definitions that apply to the 800xA System where the usage is different from commonly accepted industry standard definitions and definitions given in standard dictionaries such as Webster's Dictionary of Computer Terms.

Released User Manuals and Release Notes

A complete list of all User Manuals and Release Notes applicable to System 800xA is provided in *System 800xA Released User Manuals and Release Notes (3BUA000263*)*.

System 800xA Released User Manuals and Release Notes (3BUA000263)* is updated each time a document is updated or a new document is released. It is in pdf format and is provided in the following ways:

- Included on the Documentation media provided with the system and published to ABB SolutionsBank when released as part of a major or minor release, Service Pack, Feature Pack, or System Revision.

- Published to ABB SolutionsBank when a User Manual or Release Note is updated in between any of the release cycles listed in the first bullet.



A product bulletin is published each time *System 800xA Released User Manuals and Release Notes (3BUA000263*)* is updated and published to ABB SolutionsBank.

Section 1 Release Notes

Introduction

This document represents the Release Notes for the System 800xA 6.0.1 release.

This document describes the functionality changes and new functionalities 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.



The latest version of the Release Notes is available in the ABB SolutionsBank.

Known Problems are divided into categories by individual Functional Area or product. The categories are:

- Installation
- Administration
- Configuration
- Operation
- Instruction Manual Changes
- Miscellaneous



Some known issues are more important than others. Pay attention to the Workarounds, Clarifications and Helpful Hints provided, particularly for the issues that are marked *Important*.

Products Participating in This Version

The following products are participating in the System 800xA 6.0.1 release.

- System Installation
- Base System
- System Services (Central Licensing Service, SMS and e-mail Messaging, and Diagnostics Collection Tool)
- Engineering Studio
- AC 800M
- Application Change Management
- PLC Connect
- SFC Viewer
- Process Engineering Tool Integration
- IEC 61850
- Device Management FOUNDATION Fieldbus
- Device Management PROFIBUS & HART
- Asset Optimization
- Batch Management
- 800xA History
- Information Management
- 800xA for Advant Master
- 800xA for Safeguard
- 800xA for AC 870P / Melody
- 800xA for DCI
- 800xA for Harmony
- 800xA for Freelance⁽¹⁾

(1) For 800xA Freelance Known and Fixed issues, refer to *800xA for Freelance 6.0 Release Notes (2PAA112403-601)*.

Release Notes Safety Notices



Failure to follow all Warnings and Instructions may lead to loss of process, fire, or death.



Read Release Notes carefully before attempting to install, operate, or maintain this software.

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 System. Do not install this software on systems that exceed these limits.

Follow your company's safety procedures.

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 System. 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 System 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.

Related Documentation

The documents to be used in conjunction with this release note document are:

- *System 800xA Release Notes Fixed Problems (2PAA112277*)*: Contains the known problems from the previous release that were fixed in the current release along with the fixes in previous System 800xA 5.1 releases.
- *Third Party Software System 800xA (3BUA000500*)*: Details the third party software that has been evaluated for use with System 800xA including Microsoft operating system software, Microsoft software, service packs, and hot fixes.

Product Support

Contact ABB technical support or your local ABB representative for assistance in problem reporting.

Section 2 Functionality Changes

Introduction

This section describes the functionality changes for the 800xA Base System, and the Functional Area software with changes in the current revision of System 800xA 6.0. The Release Notes includes the new features added in System 800xA, after the release of System 800xA 6.0 version. For all the new functions introduced in feature packs for 5.1, refer *System 800xA 5.1 Feature Pack 4 Rev D Release Notes* (2PAA109967*).



Visual Basic Process Graphics (VBPG) is not supported in System Version 6.0. VBPG was replaced with Process Graphics in 5.0 SP2 RevA. Graphics migration must be done before upgrading to System Version 6.0.

Support for new Operating Systems

System Version 6.0 supports Windows 8.1 and Windows Server 2012 R2.

Improved Security

System 800xA supports Windows UAC (User Account Control) in default state. Installation and configuration needs administrator privileges whereas normal operation should be performed with standard user privileges to maintain a secure operation environment.

System 800xA 6.0 is compatible with Microsoft Windows DEP (Data Execution Prevention). DEP is a security feature preventing malicious code from executing in data memory, typically buffer overflow attacks storing instructions in data memory.

All executable are now digitally signed and carry ABB branding and copyright information.

Installation

The installation of System 800xA has been improved. Configuration and deployment is performed centrally from one node in the system. No need to visit each node except when the software is initially put on to the node, which can be performed in parallel. Deployment of the configuration is fully automated and unattended, which means it can be completed quickly. A more effective and automated installation not only saves significant time, but also improves quality since it makes it easier to be consistent.

Rename PC nodes

Renaming from Plant Explorer or renaming when restoring a backup from the Configuration Wizard, is currently not supported for 800xA system nodes, clients and servers.

The procedure to rename a system node is to use Configure System task to remove the node from the system first. Then reinstall the node, prepare it with the Node Preparation tool, add the node to the system and allocate the appropriate functions to it.

Engineering Studio installation supported without Microsoft Office as a Pre-requisite

Prior to System Version 6.0 release, System 800xA and Engineering Studio required Microsoft Office as a pre-requisite for installation. From 6.0 onwards, System 800xA can be installed on an 800xA node, even if Microsoft Office is not installed. This reduces the 3rd party software footprint.

On System 800xA nodes, which do not have Microsoft Office installed, features integrated with Microsoft Office products like Control Builder M documentation, Excel Reports, Bulk Data Manager, Bulk SPL and Document Manager functionality are not available.

ABB Start Menu

The new ABB Start Menu is used in Windows 8.1 to display a Windows 7 style start menu for the ABB products. The start menu executes only in the desktop environment.

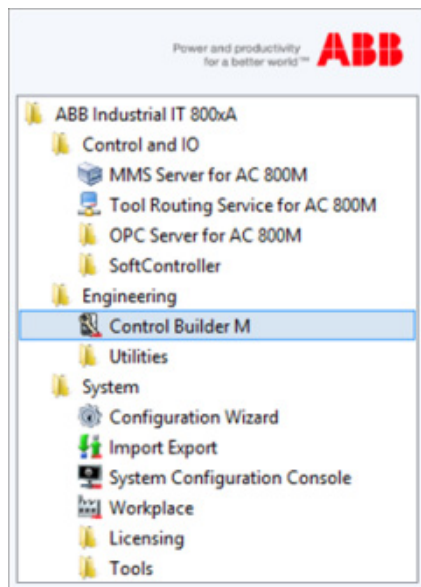


Figure 1. ABB Start Menu

Base System

Trends

The Trends feature is enhanced in this version with:

- The possibility to tilt the supporting lines using the slope function. This feature is useful to monitor a curve change for a ramped value.
- Automatic scaling function in trend displays.
- Coloring of trend curve in alarm state. When an object is in alarm state the curve is drawn in the alarm color.

Alarm List Readability

Alarm list readability has been improved by allowing color grouping of alarm lines in alarm list.

Advanced Graphical Elements

New advanced graphical elements are made available in graphics builder. The Grid element makes it possible to organize information or input as a grid on a graphic display. The Tab Content element can display tabs on a graphic display or element where each tab contains a tab page with content. The possibility to draw advanced geometries using new drawing functions in graphics builder.

New Video Server Version

The New Video Server version for System 800xA 6.0. has performance improvements for storing recorded videos and preparation for the new video formats.

Multisystem Integration

A High Integrity controller running version 6 or later can be operated using Safe Online Write from a Multi System Integration subscriber system. Refer to [Safe Online Write with Multi System Integration](#), page 31.

System Services

This section includes the functionalities that are changed for System Services.

Diagnostics Collection Tool

The System 800xA Performance Data Plug-in tool used to collect the performance related data in the standard XML format and analyzed by My Control System, has been removed in the current version of System 800xA 6.0.

Central Licensing System

New Functions in 800xA 6.0.1

There is a new licensing model introduced in System 800xA 6.0. This model tracks software and hardware delivered to each system. The license concept helps the user by indicating the features that are missing and in turn the annoyance is delayed for some time, to allow users to test the functionality early in the system life cycle. Users can test the required functions and view the usage report to update the license. The new licensing model adheres to the life cycle of an 800xA System, which in turn defined in two phases, the **Design Phase** and **Production Phase**.

New Functions in 800xA 6.0

SafeNet dongle is not supported in System 800xA version 6.0. Upgrade SafeNet dongle to Rocky dongle, if dongle is used for upgrading to 6.0.

Engineering Studio

This section includes functionalities changed for Engineering Studio.

- Simplified Upgrade step for Function Designer Diagrams.
In cases, where application libraries have been modified, Function Designer Diagrams need to be updated. A system feature to perform that update has been introduced. The automated update process logs activities for later references.
- Support of Diagram Types in Function Designer introduced.
Usage of Diagram Types is supported in Function Designer.

- Consolidated workflow on how to transfer Signal Parameter data.
The additional option to "Automatic Write Allocation into CBM" has been removed.
- Advanced diagnostic for variable cross reference service.
Function Designer checks the service state at call up. When the cross reference server does not report proper state, an option is provided to user to close or continue opening the diagram without showing variable references.
- Function Settings are retained after upgrade
Function Settings in Object Type Structure are retained after an system upgrade to 800xA 6.0.

Process Engineering Tool Integration

Support for *Intergraph SmartPlant Instrumentation- 2013 (Version 10.0)*.

Process Engineering Tool Integration from System Version 6.0 supports data exchange with *Intergraph SmartPlant Instrumentation- 2013 (Version 10.0)*.

800xA for AC 800M

The following information characterizes the new functions in Control Software for AC 800M, version 6.0.0-0.

Engineering Environment

Load Evaluate Go

Load Evaluate Go (LEG) is only possible if the controller firmware version is from the same system version as Control Builder.

Hardware Licensing

The previous Control Software Licensing using Controller Capacity Points has been removed. Instead, it is now required to have one license for each present AC 800M and S800 module.

Multiple Soft Controllers on the same PC

It is now possible to run up to 25 Soft Controllers simultaneously on the same PC. Peer-to-peer communication using IAC is automatically set up between the soft controllers. The Soft Controller panel has been changed so it can be used to administer and monitor the different instances. Each running Soft Controller instance requires a separate license.

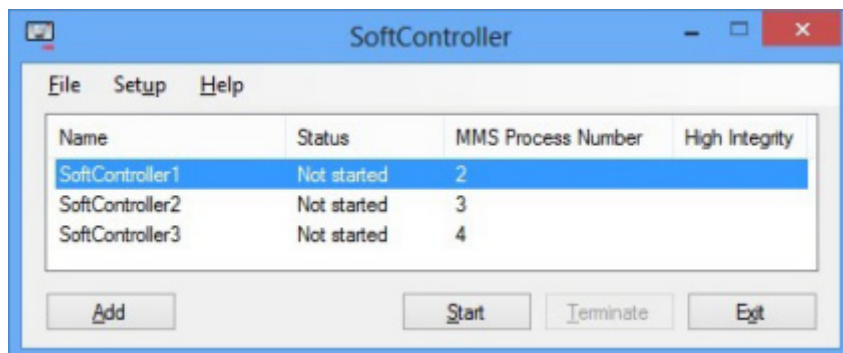


Figure 2. Multiple Soft Controllers on the same PC

Diagram Editor

The auto-routing of graphical connections in the Diagram editor has been improved. The diagram layout has been improved reducing the number of crossings, unnecessary bends and long connections. Multiple connections to the same port are handled in a better way, reducing the need for manual adjustments. The below listed are the enhancements made to diagram editor.

- Connection dialogs will remember their last position, and reappear at the same position the next time they are launched.
- New Diagrams and Diagram types no longer generates error due to lacking FD code block.
- Enabling EN no longer result in bad layout of object ports.
- Enabling and then disabling EN no longer results in triangle symbol indicating that there are hidden ports.
- Using port visibility on a structured variable object with connected ports no longer disconnect ports.
- Auto complete functionality in connect dialog used to move the cursor last in text when text was modified, making it hard to modify the text.
- Long variable names were not shown in connect dialog since the drop down menu was too narrow.
- Auto complete functionality now shows automatically generated SFC variables like example, StepName.X.
- Direct connected variables now have menu commands for Search and References.
- Connection editor for a block now show the length of string parameters.
- Split page operation could generate internal compile error.
- Split page could result in incorrect data flow order numbers on the objects.
- Adding Split and Join blocks could cause the editor to crash if very short block names were used.
- Some menu bar and toolbar commands were not enabled for the Diagram Editor, example, Edit Parameter List.

- Find in Editor command now search inside block descriptions.
- Find and using Replace All could cause Control Builder to hang.
- Some problems with display of online values have been corrected.
- Project Documentation for Diagrams and Diagram types now include tables for hidden ports with connections, and for link variables.

Control Builder Project Explorer

In Control Builder, the alphabetic sorting order has been adjusted to comply with Windows standard and PPA. A number in an alphabetic string is considered lower if it has a leading zero.

The Type Usage dialog has been improved in several ways.

- It is now resizable, so the full paths can be viewed without scrolling.
- It is modeless, that is, it stays up after navigating to an instance.
- A separate button for navigation is added. Double-clicking still works as before.

FBD/LD Editor

I/O address and description is now displayed in the Information dialog launched from variables in FBD/LD online views.

SFC Editor

In Online mode, it is now possible to scroll an SFC transition code pane where the condition is too big to fit.

Simplified Upgrade

This release contains three new stand-alone tools aimed for simplifying an upgrade from earlier releases:

AC 800M Fingerprint automatically collects diagnostic data from all controllers on the network. The data is collected into tab-separated text files. It can be used in the existing system to verify load figures, hardware revisions and so on.

The **Start Values Analyzer** tool is used for verifying that cold retained variables are unchanged after the upgrade. It can, from version 6.0 and onwards, also pin-point variables holding settings that will revert back to initial value after the upgrade due to the wrong attributes. It can compare runtime values from different occasions and print out the differences.

The **Compiler Output File Helper** tool is used for extracting Control Builder compiler output files from an existing 800xA Aspect Server and store the files on a local disc. The tool can later restore the compiler output files from disc to an upgraded 800xA Aspect Server. The tool is useful if there is long period of time between the backup being made and the upgraded system being put into operation; the tool is required if there has been any controller downloads during this time.

New Compile Switch for Unresolved Communication Variables

There is now a configurable compile error when having unresolved communication variables.

Instance specific Initial Values

In the Control Properties aspects, it is now possible to define initial values for variables of data type time and date_and_time.

Task Analysis Tool

In the Task Analysis Tool, the warning limit for controller load at Load Evaluate Go has been increased from 70% to 90%.

Search and Navigation (minor error corrections)

It was not possible to navigate to hardware items when their names contained dots ('.').

Communication Variables was not always shown in Search and Navigation window even if they were used in code.

Searching and navigating to variables in Diagrams was not always working as expected.

Searching and navigating in online mode in Diagrams was not always working as expected.

Time Set Menu Command Removed

The menu command "Time Set" has been removed from the Tools menu in Control Builder.

AC 800M High Integrity**Engineering support for PM867 and SM812**

This release adds engineering support for a more powerful High Integrity controller, the PM867/SM812.

The release of the PM867/SM812 software and hardware will be announced separately.

Support for PROFINET IO in AC 800M High Integrity Controller

CI871 is now available to be used in non-SIL applications in the AC 800M High Integrity.

Safe Online Write with Multi System Integration

A High Integrity controller running version 6 or later can be operated using Safe Online Write from a Multi System Integration subscriber system.

Variables in SIL Applications available as Access Variables

In the previous version, it was not possible to declare variables in SIL applications as communication access variables. In the new version it is possible for an external system or device to read SIL variables via for example MODBUS TCP.

Compile Warning if no SIL application exist in HI controller

A High Integrity controller must contain at least one SIL application. This is now checked during compilation, and a warning is issued otherwise.

Task Analysis Tool

The Task Analysis Tool no longer includes the VMT task when analyzing the task execution in an AC 800M HI controller. Hence it is no longer necessary to take into account the VMT tasks interval time of 900 ms when tuning tasks in an AC 800M HI controller.

Increased Timeout for MMSReadHI Control Module

The maximum communication Timeout for *MMSReadHI* control module has been extended from 10 to 30 seconds.

Control and I/O

Support for PM866

PM866 is supported for Safety I/O.

Improved Security

The AC 800M Web-server password is now stored persistently and has to be changed by the user.



By default the Web-server is turned off and it has to be manually enabled four hours at the time.

Software support for PM862

This release adds software support for the new PM862 CPU. PM862 has 32 MB RAM, can be made redundant, and has half the execution performance of PM866.

Support for Distributed Redundancy using BC820

The new BC820 has the same function as BC810, but the distance between two BC820s can be up to 200m. The CPUs in a redundant controller can be physically separated. The connection between the BC820s consists of one electrical and one optical link. BC820 can be used with PM862 and PM866.

Support for CI854B

The CI854B is a new PROFIBUS-DP master that replaces CI854A in new installations. CI854B has the same functionality as CI854A and requires the AC 800M controller to be of version 6.0 or later.

Use of Essential Automation Hardware is Identified and Visualized

The AC 800M identifies and visualizes hardware units of type *-eA*.

Optimized Communication between AC 800M Controller and OPC Server

The MMS communication between the AC 800M controller and OPC Server has been optimized. The length of the telegrams has been extended up to 2.5 times which results in fewer telegrams and lower controller load. The maximum variable transfer rate is almost doubled.

Support for MODBUS RTU Slave

The AC 800M controller can now act as a point-to-point MODBUS RTU slave. The communication takes place via COM3 on the CPU, or via any serial channel on CI853. The same set of Function Codes as with CI867 slave is supported.

Support for 200-AENTR through CI873 EtherNet/IP

The new *S200CI873IoHwlib* adds support for the S200 I/O adaptor 200-AENTR to be used with CI873.

The new adaptor gives a simple and cost effective upgrade path for directly connected S200 I/O on SattCon 200, SattLine 200, Advant Controller 210, Advant Controller 250 and AC 800C.

200-AENTR has two Ethernet ports with an in-built switch, which means that the adaptors can be daisy-chained to the CI873 using cross-wired Ethernet-cables without the need for external switches.

The release of the 200-AENTR adaptor will be announced separately.

Automatic replacement of PROFINET IO devices

The CI871 supports an automatic configuration and restart of a PNIO device in case of device replacement. The configured station name is assigned automatically. No usage of the AC 800M web server is needed. This functionality is available for PNIO devices that have on the one hand active support for LLDP and on the other hand these devices are connected to a switched Ethernet network also having active support for LLDP.

UMC100 with PNQ22 and PROFINET IO

The new hardware library *ABBPNQ22CI871HwLib* adds support for ABB's universal motor controller UMC100 via CI871.

Acyclic Communication on PROFINET IO

The AC 800M controller now supports acyclic data access with connected PNIO devices.

The *IOCommLib* library contains the Function Blocks for acyclic read and write of the PROFINET device data. This provides access in the controller to all data of the PNIO device that is not provided via cyclic data.

Application libraries for analog control

PidCC and *PidAdvancedCC* have been enhanced to support controller types 'ClassicERF' and 'ClassicERF+D'. *PidAdvancedCC* has additionally been enhanced for controller type 'ABBERF' and 'ABBERF+D'. These changes affect the following libraries BasicLib, ControlSupportLib, SignalLib, ControlBasicLib, ControlObjectLib, ControlStandardLib, ControlAdvancedLib, ControlExtendedLib, and ControlFuzzyLib.

On control modules *PidAdvancedCC* and *PidCC*, the parameter *ERF* has changed name to *EBV*, External back value. The function is still the same if the *EBV* parameter is connected. If connected the *EBV* value is used instead of the backward value in the Control Connection in the controller output parameter.

Enhancement of *TapCC* and *TapRealCC*. A new node is added where the backward information is transferred in the forward direction. The addition is completely compatible with the present object. Backtracking to the new node is never possible.

Enhancement of *RealToCC*. A parameter *UseBackwardRange* has been added to make the selection to use the backward range as the forward one. The initial value follows the original functionality.

Enhancement of *BranchCC* and *Branch4CC*. A parameter *Mode* has been added to make the selection in backtracking strategy. The initial value follows the original functionality.

TCP Communication Library Improvements

The TCPRead Function Block has been improved by adding two new parameters:

- The *RdOffset* is an input parameter that defines an index in the receive-structure where the data should be put.
- The *NoOfBytesLeft* is an output parameter showing the number of bytes left in the buffer to be read.

Maintenance

It is now possible to insert a Backup Media card after a controller crash has occurred in order to save the content of the whole RAM memory. This is valid both for a single/primary PM and a backup PM and requires that the “Autorestart” function has not been enabled (default off). A halted controller without a Backup Media will indicate by fast flashing (10Hz) on the F(ault) LED. Insert a Backup media card and wait for slow flashing (0.5Hz) on the F(ault) LED indicating that the dump is ready and/or press INIT to restart.

Application Change Management

Application Change Management (ACM) is a part of Advanced Engineering Workplace feature.

It is a version control tool used for engineering solutions in 800xA System. Multiple versions of 800xA application configuration can be archived in the ACM host and can provide an integrated configuration management system utilizing .afw files technology.

This section includes functionalities changed for Application Change Management.

Shorter Check In time and optimized usage of ACM server space: All the entities which are not modified with respect to earlier checked in version will be skipped during subsequent check In which eventually improves the check In time and saves ACM server space.

Bulk Check In of Entities/Objects: Bulk check In intelligence has been implemented to optimize the memory usage during check in operation, which has made it possible to check In significantly large Control projects and entities in single operation.

Set Max number of versions: A new general setting is introduced to set the maximum number of versions of an entity/object in ACM server. If the number of checked in versions of a particular file exceeds the value set, then the first version of the file gets deleted from ACM server. This is a one-time setting, introduced to support database management and to have a control on the number of versions of an entity/object in ACM server. For more information on ACM, refer to *System 800xA Application Change Management (2PAA108438*)*.



Setting MaxVersions to 0 removes the limitation on the number of file versions.

Change Reporting Features: ACM supports change reporting for System 800xA by enabling the support for check in of various system specific reports to the ACM Server. These reports can be generated on a scheduled basis and used to report system configuration states. For more information, refer to *System 800xA Application Change Management (2PAA108438*)*.

ACMScheduler: ACMScheduler is used to synchronize the ACM system with corresponding aspect system. It identifies the differences between ACM server and aspect system and checks in the objects which are never checked in or have been

modified after last check in. Synchronization can be restricted to certain structure by proper configuration. However, Functional structure and Control structure are configured by default.

PLC Connect

The new functionality supported by PLC Connect version 6.0 is:

- Integer signal can be changed from signed to unsigned

Device Management PROFIBUS and HART

Following new Features are implemented in this release of System 800xA 6.0

- Enhanced User Interface for License counting Tool for Fieldbus Builder PH.
- Enhanced User interface for Device Management Data Compression Tool.
- HART Multiplexer Connect Support for Digi PortServer.
- MTL4850 integration with 800xA Device Management HART.

Device Library Wizard: (DLW)

Following new Features and Enhancements are implemented in this release of System 800xA 6.0.

Synchronization of Device Types from Primary Aspect Server to DLW Clients:

Installed device types in Primary Aspect server will get copied to all connected client nodes when the user invokes DLW in Client node or initiates Synchronize Device types from Client nodes.

- Instead of installing Device types in all the nodes user shall identify the Client nodes where Device Types are required and can Synchronize with Primary Aspect Server.
- This avoids manual effort for Copying Device types / Extract Device types in each node and also avoids differences between Device types installed on Server and Client

- System Restore has to be performed only on Primary Aspect Server (DLW Server) and copy the installed Device Types to the identified DLW Clients where DTM operation is required using Synchronize Device Types feature.

Removed Dependency on MS OFFICE:

MS OFFICE dependency has been removed Instead AccessDatabaseEngine will get installed along with DLW Client.

Device Management FOUNDATION Fieldbus

FOUNDATION Fieldbus is enhanced with the following new features in this release of System 800xA 6.0.

Fieldbus Builder FOUNDATION Fieldbus (FBBFF)

The following new features are implemented in the Fieldbus Builder FOUNDATION Fieldbus (FBBFF):

- Switch on/off of Web server from linking device
- System status viewer entry for usage of default passwords in linking device
- Alarms are generated if default passwords are used and Web server is active in linking device
- Hardware and firmware information of linking device in DCT

Linking Device

The following new features are implemented in the Linking Device:

- Web server is default switched off
- User login required on linking device Web pages
- New linking device hardware

PC, Network and Software Monitoring

PC, Network and Software Monitoring is enhanced with the following new features in this release of System 800xA 6.0.

In order to monitor the IT assets in System 800xA, SNMP trap support is added to PC, Network and Software Monitoring. Users are enabled to create device specific Object Type using MIB file of the device, configure the OID based traps and customize them if needed. SNMP trap messages are presented as Alarms or Events in System 800xA. It is possible to configure the severity and notification type (alarm or event) for every trap message.

The supported SNMP version is SNMP v3 - User-based security.

800xA for Advant Master and 800xA for Safeguard

Advant Master Alarm Refresh

The Advant Master Alarm Refresh helps retrieve the latest alarm status from Advant Master and Safeguard 400 controllers. For example, after communication disturbance between Connectivity Server and Controller. Refer the 800xA for Advant Master 6.0 Configuration (3BSE030340*) for more information.

Enhanced RTA unit PU410 firmware

Cyber Security has been enhanced in the new firmware revision 1.0.5.0 for the RTA unit PU410. This new firmware revision is required when using PU410 together with 800xA for Advant Master 6.0. Refer the Security Advisory 3BSE080439 for more information about the new firmware revision, and how to get the new firmware revision for updating PU410 units that do not have the new firmware revision.

RTA board PU515A is no longer supported

800xA for Advant Master 6.0 does not support RTA board PU515A. Therefore also all PU515A needs to be replaced with PU410 when upgrading an 800xA system to 6.0.

Controller node objects defined as Entities

Starting with the 6.0 release controller node objects are handled as Entities in the system. Controller node object examples are AC 450 Controller, AC 410 Controller, SG 400 Controller. This means that objects and aspects that belong to a controller node object are treated as a unit. Hence, when importing or exporting all objects under the controller node are kept together as a unit. For more information on Entities refer the System 800xA, System Planning (3BSE041389*).

Advant Master Central Backup

Advant Master Central Backup is a licensed feature for backup and restore of ABB Master Programming Language (AMPL) controller applications. This feature was previously available only to users of System 800xA 5.1 Feature Pack 4. For more information on configuring Advant Master Central Backup, refer 800xA for Advant Master, Configuration (3BSE030340*).

800xA for AC 870P / Melody

This section describes the functionality changes for 800xA for AC 870P / Melody.

- Melody Controller PM 877 support.
- The limitation of 10 Controller pairs (*CMC 70, PM 8xx, or CCO 30*) per Connectivity Server is expanded to 20 Controller pairs per Connectivity server.

Batch Management

800xA Batch Management 6.0 is featuring improved capacity and performance.

- New batch system level changes allow for multiple batch manager processes running in the task manager. This improves the database read and write times. Also beneficial when several recipes are running at one time.
- Enhanced Batch Redundancy. Supported by SQL mirroring, provides improved system recovery.
- Batch Alarm Separation. Batch now supports the use of **Class IDs** for separating batch alarms. User will find this beneficial where process area information needs to be separated.
- Batch Overview Improvements. System level improvements to the batch overview provide efficient overview navigation and increased user access.
- The Batch Function Wizard had been updated. Now includes color coded context with syntax checking. Provides less errors and faster development times.
- Two new options for Phase and In controller attributes are introduced:
 - a. Retain High and Low Limit.
 - b. Cold Retain Equipment for In controller unit attributes.
- New batch data base search utility added to the procedure editor. Supports engineering queries on batch expressions.

800xA History

The new features supported by 800xA History in the 6.0 release are:

- **High Availability History Servers** - Fault tolerant architecture to ensure seamless storage and retrieval of process data.
- **OPC Unified Architecture** - Provides support for DA and HDA.
- **DCN Trending** - Trends can now retrieve the data from the Embedded Data Collector Node when the 800xA History server is unavailable.
- **Event retrieval** - Allows the user to retrieve the events stored in History Server and make them available in 800xA system.
- **Event Archiving** - Allows the user to perform archive of historical event data using Archive Service of 800xA.
- **History Log List Aspect** - Allows user to perform activate and de-activate of 800xA History Logs in bulk from 800xA workplace.

800xA for Harmony

800xA for Symphony Plus Harmony 6.0 contains the following enhancements:

- **Harmony Tag Configuration data is now stored directly in the Aspect Directory.** The SQL Server based Harmony Configuration Server Database is no longer needed and has been eliminated. A tool is provided for exporting the existing tag configuration data from the Configuration Server Database on existing 800xA 5.0 SP2 or 5.1 Systems. This exported data can then be uploaded into the Aspect Directory during the Upgrade process.
- **Uploader** - A new Uploader replaces the now obsolete Harmony Tag Importer Exporter and Harmony Synchronizer. The Uploader allows for importing or exporting Harmony Tag Configuration data directly to the Aspect Directory.
- **Backup/Restore** – Harmony Tag Configuration data is now included in Aspect Directory Backup and Restore operations, eliminating the need to perform independent Harmony Backups and Restores.

- **Bulk Data Manager Support** - Bulk changes to Harmony Tag Configuration can now be made using the standard 800xA Bulk Data Manager, eliminating the need for the separate Harmony Bulk Data Manager utility.
- **Engineering Environment and Versioning Support** - Harmony Tag Configuration changes can now be made in an Engineering Environment and later deployed to the Production Environment.
- Support for the following Symphony Plus hardware modules:
 - PNI800 Plant Network (PN800) Interface
 - HPC800 Controller
 - SPIEB800 INFI-Net to PN800 Plant Network Bridge

Section 3 Known Problems

This section details the Known Problems that exist in the system at the time of release.

System Installation

Operation

[Table 1](#) lists the operation issues that may exist and affect the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 1. Operation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
The update of SQL Server 2012 SP2 may fail with exit code-2067919934 (0x84be0bc2). 800xASYI-OL-6010-001	This error occurs when SQL Server 2012 installation requires a reboot of the node. Perform the following steps to proceed with the SQL Server installation: 1. Go to services.msc . 2. Stop ABB 800xA System Installer Agent service and change to manual mode. 3. Restart the node. 4. After restart, perform a manual maintenance stop of the system from Configuration wizard. 5. Go to services.msc and change ABB 800xA System Installer Agent service to Automatic (Delayed start) mode.

Table 1. Operation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>During Update phase, the System Installer Activity Log shows the following error.</p> <pre>StoreUpdatedState: error Process execution failed with exit code -1 (0xffffffff)., DeployActivityId xxxxx(ID number)</pre> <p>800xASYI-OL-6010-002</p>	<p>This is not an issue as System Installer is trying to write in Aspect Directory, which is not available during the Update phase. Once the system is up and running, the activities are updated to Aspect Directory.</p>
<p>System Installer Agent Tray Application shows disconnected when login user is not a local administrator or not part of IndustrialITAdmin group.</p> <p>800xASYI-OL-6010-003</p>	<p>View the correct status of the node from Configure System task in System Configuration console.</p>
<p>If a node restarts abruptly during an ongoing update using System installer, it is possible that further update actions may fail.</p> <p>800xASYI-OL-6010-004</p>	<p>a. Once node has restarted, perform manual maintenance stop using the Configuration Wizard and then retry.</p> <p>b. If the update still fails, then exclude the node by right-clicking on the node in the Update Engine and proceed ahead with the update of the system.</p> <p>c. Replace the node after the update is completed by following the steps in the section <i>Replacing a Node</i> in the manual <i>System 800xA installation Update and upgrade Getting Started (2PAA111708-600*)</i></p>
<p>During Update the System Installer updates the agent and restarts System Configuration Console (SCC). It takes some time for SCC to open.</p> <p>800xASYI-OL-6010-005</p>	<p>No workaround exists for this issue.</p>

Table 1. Operation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Restoring of System Version 6.0.1 maintenance backup on another node with different names may lead to missing node in the Configure Systems Task.</p> <p>800xASYI-OL-6010-006</p>	<p>Restore maintenance backup on a node with the same Node name as in the System Node configuration under the Configuration System Task.</p>
<p>After Update to 800xA 6.0.1, some node functions like Information Manager Services, Calculations Services, and Application Scheduler Services would be available for selection even if they are already selected. If they are selected again, the SCC may close abruptly.</p> <p>800xASYI-OL-6010-007</p>	<p>Make sure not to select these functions again for deploy as they are already deployed.</p>
<p>Update may fail if the primary network card is disconnected during the update phase.</p> <p>800xASYI-OL-6010-008</p>	<p>Procedure for Windows 2012 R2 is as follows:</p> <ol style="list-style-type: none"> Connect the network card and restart the node. Once restarted, do a manual maintenance stop from the Configuration Wizard and retry the update. If the update still fails, then exclude the node by right-clicking on the node in the Update Engine and proceed ahead with the update of the system. Replace the node after the update is completed by following the steps in the section <i>Replacing a Node</i> in the manual <i>System 800xA installation Update and upgrade Getting Started (2PAA111708-600*)</i>. <p>Procedure for Windows 8.1 is as follows:</p> <ol style="list-style-type: none"> Connect the network card and the update should proceed ahead.

Table 1. Operation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In some rare cases, the Update progress bar may not show the right status.</p> <p>800xASYI-OL-6010-009</p>	<p>This is not an issue, the update progresses in the background. The final progress will be updated after the completion of the update process.</p>
<p>Exclude of Primary Aspect Server during update or new Installation is not possible.</p> <p>800xASYI-OL-6010-010</p>	<p>No workaround exists for this issue.</p>
<p>In some rare case, 800xA Node(s) may show as "No-Connection" for a long time after restart during the "Update Phase"</p> <p>800xASYI-OL-6010-011</p>	<p>Restart the node again and the connection should come up and update shall proceed ahead.</p>
<p>In case a node restarts during the Distribution phase then some installation files may be corrupted on the node.</p> <p>800xASYI-OL-6010-012</p>	<p>The workaround is as follows:</p> <ol style="list-style-type: none"> 1. Before going to Initiate Update phase, stop the Update process. 2. On the node which was restarted, delete the MRU folder from the Media Repository Location as defined during Node Preparation. The Default location is C:\ProgramData\ABB\800xA. 3. Go to Update Icon in System Configuration Console and restart the update process with distribution of media on all nodes.
<p>Node Preparation Tool does not support 800xA nodes connected to Domain where 800xA Service account is on local nodes.</p> <p>800xASYI-OL-6010-013</p>	<p>No workaround exists for this issue. It is expected that 800xA nodes connected to Domain should have 800xA Service account in domain as well.</p>

Table 1. Operation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Replacing node using SCC does not work for Node from where System has been created.</p> <p>800xASYI-OL-6000-001</p>	<p>Replacing the first System node, that is, the node where the System was originally created is not yet fully supported by the Replace node Function, in Configure System task, in System Configuration Console. In addition to the procedure described in <i>System 800xA Installation and Upgrade Getting Started (2PAA111708*)</i>, the node has to be manually added to the system, using Configuration Wizard, right after the replacement node has been prepared with the Node Preparation Tool.</p> <ol style="list-style-type: none"> 1. Open Configuration Wizard and Select Action Connect Node and click Next. 2. Select a node to Connect to 800xA System (preferably the Secondary Aspect Server) 3. Select 800xA System to connect to and click Next. 4. In the Apply Settings Window click Finish. <p>After connecting, Launch SCC and go to Configure System Task. In the Node Configuration Tab, select the node to be replaced and then click Replace Node and Deploy the Node again.</p>
<p>While deploying a new system through System Configuration console, the Switch-over from Primary Plant Network to Secondary Plant Network does not get reflected.</p> <p>800xASYI-OL-6000-003</p>	<p>Abort the running deploy, open System Configuration Console, and deploy the System. Deploy would proceed from this point onwards.</p>

Table 1. Operation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In a scenario where 2 Aspect Servers fail and a Replace node needs to be executed, SCC hangs and does not proceed.</p> <p>800xASYI-OL-6000-004</p>	<p>The problem occurs because Primary Aspect Server goes into Read Only mode. To work around this problem prepare the two Aspect Servers using the Node Preparation Tool, then Connect them to the System running on the Primary Aspect Server using the below procedure.</p> <ol style="list-style-type: none">1. Open Configuration Wizard on the node to be added and Select Action Connect Node and click Next2. Select 800xA System to connect to and click Next3. On Apply Settings Windows click Finish. <p>Once connected Launch SCC on the Primary Aspect Server and go to Configure System Task. In Node Configuration Tab, select the node to be replaced and then press Replace Node and finally Deploy the Node again.</p>
<p>Multiple Configure System tasks available in System Configuration Console after import of System Configuration Aspects during Upgrade.</p> <p>800xASYI-OL-6000-005</p>	<p>Click on any of the Configure System tasks to proceed with System Deploy.</p>

Configuration

Table 2 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 2. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Unable to deploy a node when Properties of another node are not set or invalid 800xASYI-CN-6000-002	Set all Properties of the Planned Nodes before Deploying.
AC 800M OPC Server Properties are mandatory while doing an update for 800xA 6.0 to 800xA 6.0.1. 800xASYI-CN-6010-001	The property fields should be filled with the exact names of the Service Group as in the Service Structure available in the Workplace. If these names are not accurate, then Replace node functionality would not be able to restore the node correctly with the correct Service group names.

Base System

Installation

Table 3 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 3. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
On Windows 8.1 engineering client nodes, Control Builder M crashes while going to test mode. 800xASYS-IN-6010-001	DEP settings on all engineering client nodes should be changed to Opt-out . Follow the procedure below to change the DEP Settings. 1.Open command prompt as Run-as Administrator . 2.Run the following command BCDedit /set nx Optout
Links to open documents from ABB Node Preparation Tool, does not work on Windows 8.1 immediately after installing Adobe Reader. 800xASYS-IN-6010-002	Do not use the links on Windows 8.1 nodes to open the documents. Open the documents directly from the 800xA media located in the following path: Core Functionalities\Documentation

Table 3. Installation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
UPnP Device Host service is disabled after Node preparation is run. 800xASYS-IN-6010-003	Follow the steps below to enable the service. 1.Go to Windows Services by running Services.msc . 2.Select the Windows Services UPnP Device Host and open the Context Menu. 3. Start the Service.

Table 3. Installation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>During manual installation of 3rd Party Common Install, the following error is seen:</p> <p>Error: Object reference is not set to an instance of an object</p> <p>800xASYS-IN-6010-004</p>	<p>During New installation do the following steps:</p> <ol style="list-style-type: none"> 1)Run SPClient2013_x64.msi from the folder 3rd_Party_SW\ABB\ABB 800xA Common 3rd Party Install\Sharepoint. 2)Run dotnetfx452_full_x86_x64.exe from the folder 3rd_Party_SW\ABB\ABB 800xA Common 3rd Party Install\DotNetFramework452 3)Run ABB 800xA Common 3rd Party Install.msi from the folder 3rd_Party_SW\ABB\ABB 800xA Common 3rd Party Install 4)Reboot the node. <p>During Update do the following steps:</p> <ol style="list-style-type: none"> 1)Uninstall Microsoft Sharepoint Client Runtime, ABB 800xA Common Install from Programs and Features. 2)Run SPClient2013_x64.msi from the folder 3rd_Party_SW\ABB\ABB 800xA Common 3rd Party Install\Sharepoint 3)Run dotnetfx452_full_x86_x64.exe from the folder 3rd_Party_SW\ABB\ABB 800xA Common 3rd Party Install\DotNetFramework452 4)Run ABB 800xA Common 3rd Party Install.msi from the folder 3rd_Party_SW\ABB\ABB 800xA Common 3rd Party Install 5)Reboot the node.

Administration

Table 4 lists the issues that may exist and affect administration at time of release including user, node, and service structure related problems. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 4. Administration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Some functions in both the System Configuration Console (SCC) and Configuration Wizard require the user to be a Local Administrator on the node where the program is running. System Engineers and Application Engineers normally do not have this privilege. 800xASYS-AD-6000-001	The System Configuration Console (SCC) and the Configuration Wizard both require the user to be a Local Administrator on the machine where these tools are started.
800xA Device Management FOUNDATION Fieldbus 5.1 does not support Multiple Disc function. 800xASYS-AD-5100-011	No workaround exists for this issue. When using the System Configuration Console to change the System Directory Configuration the following restrictions apply for the service 'FFDataStorageAndDistribution': <ul style="list-style-type: none">Do not change the Storage Directory to Server Data 2Do not change the mapping of variable Server Data to any other disc or directory

Table 4. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>There will be an unexpected System Alarm generated when any Service Provider is not in operational state.</p> <p>System Alarms like the following can appear: “Service Provider X on Y operational” even though the service provider has been operational all the time.</p> <p>800xASYS-AD-5000-002</p>	<p>A Service provider is operational when it is in the state Service or Standby.</p> <p>There are however some situations where system alarms that were not expected might appear:</p> <ul style="list-style-type: none"> • When a server is restarted in a redundant system, Service Providers on other servers might enter Synchronizing state and where System Alarms are generated. • When an Aspect Server is disconnected completely from the network, System Alarms for Service Providers on other servers might appear when the server is reconnected. These alarms are generated because the disconnected Aspect Server lost contact with other providers in the system. The alarms do not necessarily mean that the Service Providers were down.
<p>After a node has been added to or removed using the Configuration Wizard; the node may not be visible in the System Status viewer.</p> <p>800xASYS-AD-5000-044</p>	<p>It is recommended to restart all nodes in a system after a node has been added to or removed using the Configuration Wizard.</p>

Configuration

Table 5 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 5. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
PG2 Displays with animation can cause performance problems in Workplaces running on Windows 2012 Server. The problem is described in detail in Product Bulletin 3BSE082278. 800xASYS-CN-6000-004	For workarounds and corrective actions see Product Bulletin 3BSE082278.
Recordings in a 5.1 FP4 system cannot be viewed in a 800xA 6.0 client due to changes and performance improvements in the procedure of writing recorded videos to disk. This means that new configurations must be performed in the VideONet Server for VnHistory for 800xA 6.0. 800xASYS-CN-6000-003	No workaround exists for this issue.
Information Manager does not support the Group Alarm feature introduced in 800xA 5.1 Feature Pack 1. 800xASYS-CN-5110-002	No workaround exists for this issue.
It is not possible to copy objects with Group Alarm aspects with Bulk Data Manager for 800xA 5.1 Feature Pack 1. 800xASYS-CN-5110-004	No workaround exists for this issue.

Table 5. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>It is not possible to browse for Alarm Conditions on objects from PLC Connect, while configuring Group Alarm and Alarm Hiding.</p> <p>800xASYS-CN-5110-005</p>	<p>The Alarm Conditions can be manually specified.</p>
<p>When performing an import of a library, subentities that do not exist in the system will be imported even if the user selects No for the overwrite question of the library.</p> <p>800xASYS-CN-5020-008 800xASYS-CN-5101-004</p>	<p>Manually delete the entities and subentities that should not be imported in the Import/Export tool before performing the import.</p>
<p>During network disturbances the System Status Viewer can show wrong status for services when monitoring the Service Structure, even if the system is working correctly.</p> <p>The Tray icon can also show the wrong status in this situation.</p> <p>800xASYS-CN-5000-018</p>	<p>When the network is stable again bring up a new System Status Viewer.</p>

Operation

Table 6 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 6. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>The workplace process will leak one handle each time a Graphic Display is closed in the Operator Workplace.</p> <p>800xASYS-OL-6010-001</p>	<p>This issue is resolved by installing the Microsoft .NET hotfix. To install the mandatory .NET 4.5.2 hotfix:</p> <p>1) Go to <i>3rd_Party_SW\Microsoft\Hotfix for .Net Framework 4.5.2</i> in the 800xA Media.</p> <p>2) Double click 482239_intl_x64_zip.exe file and extract to a shared location.</p> <p>3) Run the NDP452-KB3026376-x86-x64-AllOS-ENU.exe on all nodes to install the hotfix.</p>
<p>Aspect link with previous display indication shows wrong indication for quad workplace.</p> <p>800xASYS-OL-5110-030</p>	<p>Use different panel layout for each screen. The pane identities and pane names should be unique within the workplace.</p>
<p>In 1oo2 redundant systems, client nodes with affinity set to the non-master Aspect Server might lose the ability to launch new workplaces or operate from existing workplaces when the Aspect Servers are reconnected after being disconnected due to network failure.</p> <p>800xASYS-OL-5101-005</p>	<p>Restart the non-master Aspect Server when both Aspect Servers are running and in service state. When the non-master Aspect Server is running in service state, restart the clients connected to the newly restarted Aspect Server.</p>

Table 6. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Engineering tools like Control Builder M, IO Allocation Tool, and Bulk Data Manager opens in the background when launched from the Workplace application. 800xASYS-OL-5100-010	Modify the windows registry setting "ForegroundLockTimeout" located at HKCU\Control Panel\Desktop to "0". The default value is '200000' (hex 0x00030d40). This setting will cause all applications to be launched in the foreground. Note: It is recommended to perform the setting only on Engineering Client nodes. This is a per user setting and requires a restart of the machine.
Engineering tools, like the Import/Export tool or the Deploy tool can get more contents than expected when the include dependencies option is used. 800xASYS-OL-5010-013	When the include dependencies option is used, be sure to check the contents before the operation is performed, i.e. before pushing the Deploy button etc. For Import/Export it is also recommended to check the file on what actually got exported. Another solution is to include dependencies manually from the dependency list (not using the include dependencies option), i.e. right click on a dependent item and select Add item for each item.

Instruction Manual Changes

Table 7 lists the issues that exist in the instruction manuals that have not been corrected since the previous version. A brief description of the correction has also been given wherever possible.

Table 7. Instruction Manual Changes

Issue	Workarounds, Clarifications, and Helpful Hints
Information related to PC, Network and Software Monitoring (PNSM) missing in the table provided in the section <i>Appendix A System Alarm and Event Messages</i> in <i>800xA 5.1 Operations (3BSE036904-510*)</i> . 800xAPNS-MC-5101-021	Add the following information in the table. Component: ITPNSMMonitoring(PC, Network software and monitoring) Message Description: Error:%MessageDescription% Extended Description: PC, Network software and monitoring Error Message Description: %MessageDescription% Extended Description: PC, Network software and monitoring Information

System Services

Central Licensing System

Table 8 lists the operational issues that may exist and affect the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 8. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
The License Usage Aspect in the system is not environment aware. This will generate differences in the environment differences tool. 800xASRV-OL-5100-010	Ignore this error as this would not impact the Central Licensing Service functionality.
In Design mode, the CLS License Usage Report (LUR) may represent incorrect license usage quantities for Batch Equipment (BATCH_EQUIP) feature. 800xASRV-OL-6010-002	No workaround exists.

Diagnostics Collection Tool

Configuration

Table 9 lists the issues that may exist and affect the configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 9. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
It might not be possible to perform Collect, Explore or Analyze Data in case of the error “Error: Failed to contact Node Interrogator”. 800xASRV-CN-5020-007	This error indicates that Node Interrogator Service is not running. To start this service: 1. Select ABB Node Interrogator service in Control Panel > Administrative Tools > Services. 2. Select Start from Action menu. This starts the Node Interrogator service. 3. Re-open Diagnostics Collection Tool.

Operation

Table 10 lists the issues that may exist and affect the operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 10. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>While using the DCT, it is observed that the Node Interrogator Service is gradually utilizing the memory and there by resulting in System.OutOfMemoryException.</p> <p>800xADCT-OL-5110-006</p>	<p>Node Interrogator service has to be restarted. To restart:</p> <ol style="list-style-type: none">1. Select ABB Node Interrogator service in Control Panel > Administrative Tools > Services.2. Select Restart from the Action menu. This restarts the Node Interrogator service.3. Re-open the Diagnostics Collection Tool.
<p>It is rarely observed that the collection or download does not complete after several hours for large Process dumps or WER dumps from nodes in the network.</p> <p>800xASRV-OL-5100-002</p>	<p>Close the collection or download. Ensure to collect dumps for less number of processes using User Dump Plug-in. Use specific date option in WER Plug-in to collect dumps for a specific period or date.</p>

Structured Data Logger

Configuration

Table 11 lists the issues that may exist and affect the configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 11. Configuration Issues

Issue	Workarounds, Clarifications and Helpful Hints
An export (with dependencies) of SDL Log aspects does not automatically include SDL Log Type aspects. 800xASDL-CN-5020-001	Manually export the SDL Log Type aspects used by the SDL Log aspect.

Engineering Studio

Operation

Table 12, Table 13, Table 14, Table 15, Table 16 and Table 17 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 12. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>The following issues are observed in Document Manager with Autocad 2014:</p> <ul style="list-style-type: none">• The Document Manager menu is not available in AUTOCAD menu bar.• 800.xA Workplace closes abruptly on opening of AUTOCAD drawings from Document Manager aspect. <p>800xAENS-OL-6000-001</p>	<p>No workaround exists for this issue.</p>
<p>Document Manager does not support the following:</p> <ul style="list-style-type: none">• Microsoft Word file format .docx.• Microsoft Excel file format .xlsx. <p>800xAENS-OL-6000-004</p>	<p>Use Microsoft Word files with .doc and Microsoft Excel files with .xls file extensions.</p>
<p>Closing the Document/Parameter Manager aspect does not release ENG_BASE license as long as the 800xA Workplace is open.</p> <p>800xAENS-OL-5105-002</p>	<p>Close and re-open the 800xA Workplace.</p>

Table 13. Bulk SPL Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In a sequence overview diagram, Placing the steps/transitions beyond the T column on the horizontal axis in a sequence overview diagram and importing it to Bulk SPL template, results in placing these steps/transition beyond the template range.</p> <p>800xAENS-OL-5130-003</p>	<p>Insert additional columns manually.</p>
<p>User is unable to write any logic inside the detailed sheet of the BulkSPL template because the N action does not expand.</p> <p>800xAENS-OL-6000-002</p>	<p>No workaround exists for this issue.</p>
<p>Deletion of inputs to a logical operand and transfer to 800xA results in the following error:</p> <p><i>Incomplete configuration in TrN's TrLogic.</i></p> <p>800xAENS-OL-5130-004</p>	<p>Delete the operand along with all the inputs and reinsert.</p>
<p>First time opening of a large sequence diagram, created using Bulk SPL template may take several minutes.</p> <p>800xAENS-OL-5130-005</p>	<p>No workaround exists for this issue.</p>

Table 14. Function Designer, Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In a Function Diagram, if an object like Control Module or Function Block is changed from Aspect Object to Symbol Object or vice versa via the context menu, in some instances an error is displayed:</p> <p>Concurrent modification of aspect is not allowed.</p> <p>800xAENS-OL-6000-003</p>	<p>Acknowledge the message and generate configuration data for the diagram.</p>
<p>In rare cases, links in a transition of Sequence sub-diagram may not be animated as per function settings.</p> <p>800xAENS-OL-6000-005</p>	<p>No workaround exists for this issue.</p>
<p>In rare cases on opening a Function Diagram, "Invalid Argument" error messages are displayed continuously and no operation is possible on the Function Diagram.</p> <p>800xAENS-OL-5105-030</p>	<p>Shut down the Workplace Application process from Windows Task Manager and restart the 800xA Workplace. Delete the Function Diagram from Functional Structure and reconfigure the Function Diagram.</p>
<p>Control Builder is not getting updated as per the Control Module Types created in Object Type Structure.</p> <p>800xAENS-OL-6000-006</p>	<p>No workaround exists for this issue.</p>

Table 14. Function Designer, Operational Issues (Continued)


Issue	Workarounds, Clarifications, and Helpful Hints
<p>In rare cases generation of ConfigurationData for a Function Diagram results in Control Builder M crash due to the presence obsolete components in its blob.</p> <p>800xAENS-OL-5105-029</p>	<p>No workaround exists for this issue.</p>
<p>If a modified Function Diagram is closed without saving, it will execute a consistency check once when the specific diagram is reopened. Depending on the amount of changes and the size of the diagram, this consistency check may take considerable time.</p> <p>This behavior also occurs while working with large sized diagrams (with blob size 2MB or above) after the Insufficient Memory error message appears</p> <p>800xAENS-OL-5024-016</p>	<p>While working with large sized Function Diagrams or while performing large amount of changes, it is recommended to save the diagrams frequently.</p>
<p>In some instances, cut paste of Sequence 2D across diagrams may result in inconsistency in sequence.</p> <p>800xAENS-OL-5025-017</p>	<p>oUse copy and paste to copy the data. Manually delete in source Function Diagram.</p>
<p>The traffic light symbol of a Function Diagram shows incorrect status () after performing Write Allocation Into CBM from the IO Allocation dialog.</p> <p>800xAENS-OL-5100-007</p>	<p>Regenerate configuration data after performing Write allocation to CBM from the IO Allocation dialog to obtain the correct diagram state in the traffic light symbol.</p>

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Simultaneous sequences need to end with a transition-step-transition configuration, before using a selection branch in sequences.</p> <p>Configuring a selection branch after a simultaneous sequence results in error during generation of Configuration Data.</p> <p>800xAENS-OL-5100-009</p>	<p>Insert a step between Simultaneous Sequence and Selection branch.</p>
<p>Graphical representation of complex sequences configured through Function Diagrams may differ in SFC Viewer and Control Builder Viewer.</p> <p>800xAENS-OL-5100-011</p>	<p>This does not affect the flow of the logic.</p>
<p>In the Function Diagram, copy/paste of an existing group of connected blocks with system functions and diagram references results in error messages during generation of Configuration Data.</p> <p>800xAENS-OL-5100-010</p>	<p>Navigate to the specific errors and correct it manually.</p>

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If the function setting CachingEnabled is set to True then the following limitations exist:</p> <ol style="list-style-type: none"> 1. User cannot rename steps / transitions in a sequence diagram. 2. After converting an aspect object to symbol object, closing and reopening the diagram without saving creates a dummy object. 3. Working with diagram references without saving the Function Diagram may lead to the following limitations: <ul style="list-style-type: none"> - The error message “Industrial IT has rejected this operation” appears when user tries to delete the output reference. - The connection between the references appears to exist in the form of yellow references, though there are no connections. - When user tries to disconnect the variable, the following error message appears: “System Null Error”. <p>800xAENS-OL-5100-013</p>	<ol style="list-style-type: none"> 1. Prior to setting CachingEnabled to True, create an SFC overview diagram with required names assigned to steps and transitions. 2. Always save the respective Function Diagrams while: <ul style="list-style-type: none"> - converting an aspect object to symbol object. - working with diagram references. <p>It is recommended to set the CachingEnabled function setting to False.</p>
<p>Creation of several thousands of Function Diagrams using Bulk Data Manager may fail. Bulk Data Manager progress bar may disappear while updating several hundred objects although the operation is in progress.</p> <p>800xAENS-OL-5100-015</p>	<ol style="list-style-type: none"> 1. Set VarCrossRef_Include_DiagRef to False before performing any bulk operations. For more information, refer to <i>System 800xA Engineering Studio Function Designer (3BDS011224*)</i>. 2. If several thousands of Function Diagrams need to be created using Bulk Data Manager, then split the Function Diagrams into manageable quantities (less than thousands) and create them separately using Bulk Data Manager.

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>The information about external references to Communication Variable is not available in the Function Diagram, if the connected Diagram Reference/s are not in a Function Diagram. For example:</p> <p>Communication Variable (CV1) is declared in a Function Diagram and this diagram is allocated to an application, which also contains Single Control Modules/Programs/Diagrams with the same communication variable (CV1). In this case, the communication variable in the diagram does not indicate the external reference information.</p> <p>800xAENS-OL-5100-021</p>	<p>This does not affect the functionality of Communication Variables.</p>
<p>Consider a Function Diagram containing a page connector. If the diagram is copy-pasted, and the page connector is renamed in the copied diagram, then the position and size of the page connector changes in respect to the original diagram.</p> <p>800xAENS-OL-5101-005</p>	<p>No workaround exists for this issue.</p>
<p>Copy and paste the default AND (bool) block in a Transition of a Sequence sub diagram. Create a logic using the pasted AND block. Save and close the diagram. While reopening the diagram, the connections to the pasted AND block are lost.</p> <p>800xAENS-OL-5101-009</p>	<p>Add a new AND (bool) block using Insert menu.</p>

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Copying a Function Diagram with Diagram References using Bulk Data Manager results in an error if the setting, On Copy Diagram Output Reference is set to Make new unique connection.</p> <p>As a result, sinks and sources are renamed and connected to the original source.</p> <p>800xAENS-OL-5102-005</p>	<p>No workaround exists for this issue.</p>
<p>Revert operation in LEG does not clean up production environment from the Function Diagram.</p> <p>This is because, the Function aspect is added in the Function Blocks of the user defined library. The library is then used in the Function Diagram and the application is sent through LEG.</p> <p>800xAENS-OL-5102-011</p>	<p>Changes to User Defined libraries (Adding Function aspect) must be done in the Production Environment only while using LEG for Function diagrams</p>
<p>In some instances, Windows Event Viewer displays the Side by Side error.</p> <p>800xAENS-OL-5102-013</p>	<p>This error message can be ignored.</p>
<p>In a sequence step, if a Diagram reference is connected to a variable of structure data type, logic is not transferred to the Control Builder M.</p> <p>800xAENS-OL-5103-002</p>	<p>No workaround exists for this issue.</p>

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In Function Diagram editor, if two ports of same or different function block types / control module types with same data type are connected directly without creating a variable, the resulted connection link is not visible in Control Builder diagram editor.</p> <p>800xAENS-OL-5103-005</p>	<p>Insert a variable of same data type and connect both the ports.</p>
<p>In the Functional Structure, if a Function Diagram is inserted under another object, then the icon of the inserted Function Diagram does not indicate that it is an inserted object.</p> <p>Deletion of the inserted Function Diagram results in the deletion of the original Function Diagram as well.</p> <p>800xAENS-OL-5104-006</p>	<p>No workaround exists for this issue.</p>
<p>If there are multiple blocks in a Function Diagram with same port name and datatype, and if variables are created connected to these ports by a right-click on the port, then the variables are assigned a name, same as the port name and it results in multiple invocation of the variable.</p> <p>Product Bulletin ID: 9ARD149823-301 800xAENS-OL-5104-007</p>	<p>Assign a unique variable name on performing right-click and “New Variable” on the port.</p>

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If a user defined Function Block/ControlModule/Diagram Type has a parameter with data type "String[X]" is instantiated in a Function Diagram, then on connecting the parameter with a string and generating Configuration Data, the string is not passed to Control Builder M.</p> <p>800xAENS-OL-5104-010</p>	<p>Rename the data-type to string[X] instead of String[X].</p>
<p>In a Function Diagram width of blocks like Control Modules is adjusted to suit for text scaling when opening with different screen resolutions. This may result in truncation of Name and Description of blocks.</p> <p>800xAENS-OL-5104-019</p>	<p>Re-write the Name and Description using Bulk Data Manager.</p>
<p>Repetitive opening of a Function Diagram that is pasted using Paste Special function may result in loss of Function blocks, Control Builder M signals etc. in the Function Diagram.</p> <p>Product Bulletin ID: 9ARD134783-213 800xAENS-OL-5104-022</p>	<p>Do not use Paste Special for copy-paste of Function Diagrams. Instead use Paste.</p>
<p>Connecting MRead output port of AnyType datatype, to an input port of Control Module/Function Block of any datatype, results in error on generating Configuration Data.</p> <p>800xAENS-OL-5104-025</p>	<p>Insert a variable between MRead block and Control Module/Function Block. Datatype of the inserted variable must be same as the datatype of the input port of the Control Module/Function Block.</p>

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If a Diagram Variable is deleted from a Function Diagram which has multiple Diagram Input References, then after Analyze and View Difference, the same Diagram Variable is wrongly displayed as marked for deletion in several un-connected MMS Receiver Diagrams.</p> <p>800xAENS-OL-5140-011</p>	<p>No workaround exists for this issue.</p>
<p>In rare scenarios "Aes Application Variable Table" aspect of an Application may have inconsistencies.</p> <p>800xAENS-OL-5140-014</p>	<p>No workaround exists for this issue.</p>
<p>If Paste-rename, if performed from Functional Structure then all the child objects are not populated in the list.</p> <p>800xAENS-OL-5105-018</p>	<p>No workaround exists for this issue.</p>
<p>In some instances on performing a change type for a Function Block or Control Module the labels are overlapped.</p> <p>800xAENS-OL-5105-006</p>	<p>No workaround exists for this issue.</p>
<p>Timestamp of an Allocatable Group aspect for a Function Diagram is wrongly updated due to changes in daylight saving.</p> <p>800xAENS-OL-5105-020</p>	<p>No workaround exists for this issue.</p>
<p>Performing a Change Type for a variable with initial value in Function Designer and generating configuration data results in an error.</p> <p>800xAENS-OL-5105-008</p>	<p>Instead of performing a Change Type, delete the existing variable and insert a new variable.</p>

Table 14. Function Designer, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Upload of Init Values of Control Properties aspect to Function Designer does not work.</p> <p>800xAENS-OL-5105-009</p>	No workaround exists for this issue.
<p>On instantiating Signal Groups in SCM based Function Diagrams, error messages are displayed on generation of Configuration Data.</p> <p>800xAENS-OL-5105-017</p>	Open the CBM_SignalInformation aspect and change the Allocation Type of IO Signal setting to Connect to Application Global Variable of Structured Data Type (Signal Group) .
<p>Select all and delete of multiple Diagram References in a Function Diagram fails with the following error:</p> <p>Industrial IT 800xA rejected this Action</p> <p>800xAENS-OL-5105-010</p>	Delete components individually.
<p>Following issues exist for updating Diagram references using BDM templates:</p> <ul style="list-style-type: none"> • Description of Diagram References is not updated while updating using "BDM_DiagramRef_Var_Adv" template. • Existing description of Diagram References is deleted while updating using "BDM_DiagramRef_Var_Basic" template. <p>800xAENS-OL-5105-013</p>	No workaround exists for this issue.
<p>In a Function Diagram, copy of a diagram reference with its valid pin connected to blocks, results in incorrect connection to the valid pin of copied Diagram Reference.</p> <p>800xAENS-OL-5105-016</p>	Disconnect the wrong link and reconnect manually.

Table 15. IO Allocation, Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Scaling of frequency value to process unit is set by the 'Min' & 'Max' values provided in the 'Properties' tab of pulse boards (e.g: DP820, DP840) in Control Builder M.</p> <p>Users are unable to configure this through IO Allocation tool.</p> <p>800xAENS-OL-5100-006</p>	<p>No workaround exists for this issue.</p>
<p>The Normal Position property of a CBM_DIS signal does not update in Control Builder when the signal is allocated to channel 12 of DI830 board.</p> <p>800xAENS-OL-5024-004</p>	<p>Perform the following in Control Builder M after allocating DI830 device through the Write Allocation into CBM operation from the IO Allocation dialog:</p> <ol style="list-style-type: none"> 1. Right-click DI830 and click Reservation. 2. Double-click DI830 and edit the value of the Normal Position attribute for channel 12. 3. Click Save.
<p>Allocation of Control Builder M Signals instantiated in Function Diagrams, to certain Profibus devices and performing Configuration Data Generation may result in the wrong traffic light status</p> <p>800xAENS-OL-5104-023</p>	<p>No workaround exists for this issue.</p>
<p>The min-max values and engineering unit details of the de-allocated variable are not getting cleared in Control Builder M IO editor.</p> <p>800xAENS-OL-5103-009</p>	<p>No workaround exists for this issue.</p>

Table 15. IO Allocation, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If some channels are connected to variables in Control Builder M and others are allocated through I/O allocation, this may lead to Inconsistency in generated data.</p> <p>800xAENS-OL-5103-020</p>	<p>No workaround exists for this issue.</p>
<p>If the user deletes an unallocated Function Diagram having FF proxy object with variables allocated to CI860 board, then the variables are not getting deleted.</p> <p>800xAENS-OL-5130-002</p>	<p>Delete the allocated Function Diagram.</p>
<p>IO Allocation tool stops responding when it is invoked from AC800M controller in Control Structure.</p> <p>800xAENS-OL-5104-033</p>	<p>No workaround exists for this issue.</p>
<p>While configuring property mapping by adding a New PropertyMap on the IO Mapping aspect, the following error message appears and no modifications happen:</p> <p>Failed: Attempt to modify read only node</p> <p>800xAENS-OL-5105-003</p>	<p>No workaround exists for this issue.</p>

Table 16. Bulk Data Manager, Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In Bulk Data Manager template, the Function Diagrams aspect command Upload Init Vals does not work properly.</p> <p>800xAENS-OL-5100-027</p>	<p>Upload the init Vals from Engineering Workplace</p>
<p>In some instances, for some specific Function Diagrams, Bulk Data Manager stops responding on using menu Aspect Commands > Generate Configuration Data for a Function aspect.</p> <p>800xAENS-OL-5102-002</p>	<p>No workaround exists for this issue.</p>
<p>Saving the changes that are made using the filter option on the Bulk Data Manager templates result in errors (for example, "Source object not found").</p> <p>800xAENS-OL-5100-020</p>	<p>Avoid using the filter option on Bulk Data Manager templates.</p>
<p>Bulk Data Manager operations with Microsoft Office 2013 leak Graphic Device Interface (GDI) objects. Due to this, Microsoft Excel may stop responding after the upper limit of GDI objects (10000) is reached.</p> <p>800xAENS-OL-5105-023</p>	<p>No workaround exists for this issue.</p>

Table 16. Bulk Data Manager, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In some instance, on performing Configuration Data Generation in Bulk Data Manager, following error message is displayed:</p> <p>Identifier invalid or too long.</p> <p>800xAENS-OL-5102-004</p>	<p>No workaround exists for this issue.</p>
<p>In some instances, while working with Bulk Data Manager, on selection of Min Path from the Advanced menu instead of Full Path, may cause Microsoft Excel to stop responding.</p> <p>800xAENS-OL-5104-001</p>	<p>Use Full Path instead of Min Path from the Advanced menu of Bulk Data Manager.</p>
<p>If BDM_DiagramRef_Var_Adv.xlsx template is used to update multiple attributes which are separated by separators other than space, for instance comma (,), semi-colon (;), of Global / Communication variables declared in Function Diagrams, then no attributes are transferred to Control Builder M on generating Configuration Data.</p> <p>Product Bulletin ID: 9ARD134783-216</p> <p>800xAENS-OL-5105-001</p>	<p>Use only space as the separator between multiple attributes.</p>

Table 16. Bulk Data Manager, Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
While working on Bulk Data Manager to copy/create 800xA objects with Microsoft Excel 2013, leaks occur in Graphic Device Interface (GDI) objects. Due to this, Microsoft Excel may stop responding after GDI objects reach the maximum limit of 10000. 800xAENS-OL-5105-0023	Split the Bulk Data Manager copy/create into manageable blocks and restart Microsoft Excel after every transfer.

Table 17. Script Manager, Operational Issues

Issue	Workaround, Clarifications, and Helpful Hints
Attach Debugger icon is not functional in Script manager. 800xAENS-OL-5103-030	No workaround exists for this issue.

800xA for AC 800M

Introduction

This section provides information on safety and compatibility of the system. It also enumerates known problems encountered in the final testing of this product release. Where possible the document identifies workarounds that help overcome the problem. The section also contains additional notes that may be valuable to customers and service personnel working with the product.



For information on SIL (Safety Integrity Level) conformance according to IEC 61508 or other applicable safety standards, refer to the manual *System 800xA Safety AC 800M High Integrity Safety Manual (3BNP004865*)* and *800xA - Safety, Reliability and Availability Data (3BSE034876*)*. Certified versions of the safety manuals are stated in *TÜV Certification Report, Annex A (3BSE074100)*.



The term *Control Builder* refers to Control Builder M Professional. The term *OPC Server* refers to OPC Server for AC 800M. The term *Modem* refers to modems that are configured and controlled by a controller. It does not refer to modems that are transparent for the controller. The term *Controller* refers to a Process Automation (PA) Controller. If it is a High Integrity Controller, the text will say High Integrity or HI Controller.

Safety

For a complete list of AC 800M safety related warnings, for this release, see *System 800xA Safety AC 800M High Integrity Safety Manual (3BNP004865*)*.



In order to get the formal status of the safety certification of a 800xA Safety product (safety documentation, hardware and software components), refer to the latest version of the TÜV Certification Report, Annex A, ABB SolutionsBank or ABB Library (3BSE074100).

Safety Certification Status

Before a High Integrity controller can be put into operation, any NON-CERT marked High Integrity firmware in the controller must be replaced with TÜV certified counterparts.

It is mandatory for the user to verify that all 800xA Safety products used in a safety critical installation, are certified according to the applicable standards, before they are put into operation for production. If the used hardware or software versions are not yet listed in the latest available TÜV Certification Report, Annex A, contact your local ABB sales representative or TÜV Süd Group (+49 89 5791-4173), for further information.

Version Designation

Software

Control Software for AC 800M System Version 6.0 contains software support for the following products.

Table 18. Software Support

Released Software	Version
Control Builder M Professional	6.0.0-0
AC 800M Connect (800xA for AC 800M)	6.0.0-0 TC2
Firmware for PM851(A)/PM856(A)/PM860(A)	6.0.0-0 TC2 ⁽¹⁾
Firmware for PM861(A)/PM862/PM864(A)/PM865/PM866(A)	6.0.0-0 TC2 ⁽¹⁾
Firmware for PM865 in AC 800M HI	6.0.0-0 incl. CERT HI FW PM865 build version 6.0.12.12 SM81x build version 6.0.0012.0
Firmware for PM891	6.0.0-0 TC2 ⁽¹⁾
OPC Server for AC 800M	6.0.0-0
MMS Server for AC 800M	6.0.0-0
Base Software for SoftControl	6.0.0-0
Tool Routing Service for AC 800M	6.0.0-0

Table 18. Software Support (Continued)

Released Software	Version
IP Config	6.0.7
Serial Firmware Upgrade	6.0.7

- (1) If using the Serial Firmware Upgrade tool or Backup Media (Flash card) to upgrade the controller firmware, then the latest firmware version is only available on the installation media in the folder /Engineering/Control Builder M/Firmware Files/bin/firmware.txt.

Hardware

This release supports:

- AC 800M (PM851(A), PM856(A), PM860(A), PM861(A), PM862, PM864(A), PM865, PM866(A) and PM891)
- AC 800M High Integrity (PM865, SM810/SM811)

Compatibility



Some Hardware Modules may have to be exchanged to new hardware revisions. See [Compatible Hardware Modules](#) on page 88, for further information. Listed Hardware Modules must be of stated version/revision or higher.

Controller peer to peer communication is possible with other controllers running Version 2.x/x, 3.x/x, 4.x.x/x or 5.x.x/x by means of Access Variables.

Supported Versions

Online Upgrade Paths

Redundant AC 800M controllers can be upgraded with new firmware versions online. Online upgrade is initiated from Control Builder by a 9-step wizard, that describes the complete upgrading process. For more information, refer to the *Maintenance and Trouble-Shooting* section in *System 800xA Control AC 800M Configuration (3BSE035980*)* manual.

Online upgrade is supported from the controller versions listed in document *800xA Online upgrade and Co-existence, versions compatibility (3BSE080447)* on ABB SolutionsBank. Note that this document is an aid document and before executing

online upgrade or co-existence for a safety system, check the valid safety certificate annex.

Supported Versions for Coexistence of Controller Versions

Coexistence is supported between the controller versions listed in document *800xA Online upgrade and Co-existence, versions compatibility (3BSE080447)* on ABB SolutionsBank. Note that this document is an aid document and before executing online upgrade or co-existence for a safety system, check the valid safety certificate annex.

Compatible Hardware Modules

The Hardware Modules listed in [Table 19](#) must be of the stated version/revision or higher.

Listed I/O Modules are included due to compatibility issues.
For some other I/O Modules there is a recommendation about firmware and hardware versions for other reasons. See other relevant documentation regarding such reasons.



Firmware in all Hardware Modules must be upgraded to the delivered version. See [Compatible Firmware](#) on page 92.

Table 19. Compatible Hardware Modules

Module	Required Version	Recommended Version
PM851	PR:A	
PM851A	PR:A	
PM856	PR:A	PR:F
PM856A	PR:A	
PM860	PR:B	PR:H
PM860A	PR:B	
PM861 (Singular)	PR:B	PR:L

Table 19. Compatible Hardware Modules (Continued)

Module	Required Version	Recommended Version
PM861 (Redundant)	PR:B ⁽¹⁾	PR:L
PM861A (Singular)	PR:B	PR:C
PM861A (Redundant)	PR:B with FPGA 1.2/1 -or- PR:C	PR:C ⁽²⁾
PM862	PR:A	
PM864	PR:B with FPGA 1.2/5 -or- PR:C	PR:H
PM864A (Singular)	PR:B	PR:C
PM864A (Redundant)	PR:B with FPGA 1.2/1 -or- PR:C	PR:C ⁽²⁾
PM865 (Process Automation Singular)	PR:C	PR:D
PM865 (Process Automation Redundant)	PR:C with FPGA 2.0/0 -or- PR:D	PR:D ⁽³⁾
PM865 (High Integrity)	PR:G	
PM866	PR:B	
PM866A	PR:A	
PM891	PR:A	

Table 19. Compatible Hardware Modules (Continued)

Module	Required Version	Recommended Version
SM810	PR:C	
SM811	PR:A	
CI853	PR:C ⁽⁴⁾	
CI854	PR:B Index 01.00	PR:G Index 01.03 ⁽⁵⁾
CI854A	PR:D Index 02.05	
CI854B	PR:A	
CI855	PR:B	PR:C ⁽⁶⁾
CI856	PR:A	PR:B ⁽⁷⁾⁽⁸⁾
CI857	PR:B	PR:C
CI858	PR:A	
CI860	PR:C Index 02.01	PR:H ⁽⁹⁾ Index 04.00
CI865	PR:B	
CI867	PR:A	
CI868	PR:A	
CI869	PR:D	
CI871	PR:A	
CI872	PR:B	PR:D
CI873	PR:A	
TB820V2	PR:A ⁽¹⁰⁾	
TB840	PR:J ⁽¹¹⁾	PR:M
TB840A	PR:A	

Table 19. Compatible Hardware Modules (Continued)

Module	Required Version	Recommended Version
DI830	PR: H ⁽¹²⁾	PR: K
DI831	PR: H ⁽¹²⁾	PR: K
DI885	PR:C	
AI845	PR:F	
AO845	PR:E	PR:J
AO845A	PR:A	PR:C
DI880	PR:E	PR:J
DO880	PR:F ⁽¹³⁾	PR:J
DP820 ⁽¹⁴⁾	PR:A	
AI880A ⁽¹⁵⁾	PR:B	PR:F
BC810	PR:C ⁽¹⁶⁾	PR:E
BC820	PR:B ⁽¹⁷⁾	
200-APB12	1.6	
200-ACN	1.4	
200-IE8	B	
200-OE4	B	
LD 800DN	PR:A	

- (1) No empty base plates are allowed on the CEX-bus when using less than PR:D.
- (2) PR:D or later supports online replacement of a defect RCU-cable in configurations with BC810.
- (3) PR:F or later supports online replacement of a defect RCU-cable in configurations with BC810.
- (4) Firmware Version 1.0.6.0 or later (2002-01-17) must be used.
Hardware revision PR:A and PR:B cannot be upgraded. Revision PR:C or newer must be used.
- (5) When using less than Index 01.01:
AC 800M may in some configurations not resume execution after a power fail.
- (6) Less than PR:C does not support firmware upgrade.
- (7) PR:B is required when using DSBC173A or TK575V112 I/O Connection Cable.
PR:A sometimes fails to start up.
- (8) CI856 must be upgraded to PR:D or later in order to support online upgrade.

- (9) PR:H or later supports Online Replacement and CI860 Redundancy.
- (10) TB820V2 PR:F or later is required when using DI818, DO818, DI828 or DO828.
- (11) PR:B1, D, and E can also be used.
 When using PR:B1, D and E: The optical Modulebus on PM861(A) or PM864(A) must be disconnected from the backup CPU before it is powered up, in case the primary CPU is already running.
 When using PR:B1, D, E and J: SA supervision will report error on SB, and vice versa.
- (12) PR:F can also be used.
- (13) Degraded Mode is supported with DO880 PR:G or newer.
- (14) PR:E or later is required if modulebus scan time is greater than 90 ms.
- (15) The AI880A does not have the same key code as AI880. AI880 is no longer supported. PR:C is required for full HART support.
- (16) PR:E or later is required in an AC 800M High Integrity.
- (17) PM866 PR:H or later is required when using BC820.

Compatible Firmware

The firmware in the Hardware Modules listed in [Table 20](#) must be of stated label or version.

Table 20. Compatible Firmware

Module	Label or Version
CI858 ⁽¹⁾	FWCI858 1.0.0.2
CI801	1.2/3 ⁽²⁾ (or later)
CI830	1.3/2 ⁽³⁾⁽⁴⁾ (or later)
CI840(A)	3.0/2 ⁽⁵⁾ (or later)
CI920	1.4.1 (or later)
CI920A	2.1.0
LD 800DN	1.04 (or later)

- (1) Not possible to upgrade from Control Builder.
- (2) CI801 Version 1.2/3 or later is required when using the added set of RTD sensors in AI830A.
 CI801 Version 1.3/0 or later is required when using AI815, AO815 and enhanced CJT functions in AI835A.
 CI801 Version 1.5/1 or later is required when using DI818, DO818, DI828 or DO828.
- (3) CI830 versions less than 1.3/2 fail to set I/O to OSP in some situations.
- (4) CI830 Version 1.4/0 or later is required when using AI893 or DP840.

- (5) CI840(A) Version 3.3/8 or later is required when using the added set of RTD sensors in AI830A.
 CI840(A) Version 4.0/1 or later is required when using AI815, AO815 and enhanced CJT functions in AI835A.
 CI840(A) Version 4.1/7 or later is required when using DI818, DO818, DI828 or DO828.

Included Library Version

Table 21. Hardware Libraries

Library	Version of this release
ABBDrvFenaCI871HwLib	1.0-3
ABBDrvFpbaCI854HwLib	1.0-2
ABBDrvNpbaCI854HwLib	1.0-2
ABBDrvRetaCI871HwLib	1.0-6
ABBDrvRpbaCI854HwLib	1.0-2
ABBMNSiSCI871HwLib	1.0-6
ABBPni800CI854HwLib	1.1-0
ABBPnQ22CI871HwLib	1.0-0
ABBPProcPniCI854HwLib	1.0-1
BasicHIHwLib	6.0-0
BasicHwLib	6.0-0
CI853SerialComHwLib	1.0-2
CI854PROFIBUSHwLib	2.11-25
CI855MB300HwLib	2.10-1
CI856S100HwLib	2.10-5
CI857InsumHwLib	2.10-6
CI858DriveBusHwLib	2.10-4
CI860FFHSEHwLib	2.11-1

Table 21. Hardware Libraries

Library	Version of this release
CI865SattIOHwLib	2.10-3
CI867ModbusTcpHwLib	2.10-11
CI868IEC61850HwLib	3.10-16 ⁽¹⁾
CI869AF100HwLib	2.10-1
CI871PROFINETHwLib	1.10-8
CI872MTMHwLib	2.10-1
CI873EthernetIPHwLib	2.10-10
COMLIHwLib	2.10-2
ModBusHwLib	2.10-8
ModemHwLib	1.0-0
PrinterHwLib	2.10-2
S200IoCI854HwLib	1.0-1
S200IoCI873HwLib	1.0-9
S3964HwLib	2.10-3
S800CI801CI854HwLib	1.4-0
S800CI830CI854HwLib	1.0-11
S800CI840CI854HwLib	1.4-0
S800IoModulebusHwLib	1.4-1
S900IoCI854HwLib	2.0-0 ⁽²⁾
SerialHwLib	2.10-2
TCPHwLib	1.10-4
UDPHwLib	1.10-0

(1) Version Compatibility - 2.20-0

(2) Version Compatibility - 1.1-2

Table 22. Application Libraries

Library	Version of this release
AlarmEventLib	1.7-1
BasicGraphicLib	1.4-1
BasicLib	1.8-2
BatchLib	1.4-1
COMLCommLib	1.5-1
ControlAdvancedLib	1.6-1
ControlBasicLib	1.4-2
ControlExtendedLib	1.5-1
ControlFuzzyLib	1.5-1
ControlObjectLib	1.4-1
ControlSimpleLib	1.4-1
ControlSolutionLib	1.4-1
ControlStandardLib	1.6-3
ControlSupportLib	1.5-5
FFHSECommLib	1.5.1
FireGasLib	2.6-1
GraphicSupportLib	1.3-0
GroupStartLib	1.6-1
IconLib	1.5-1
INSUMCommLib	1.4-1
IOCommLib	1.1-1
MB300CommLib	1.4-1

Table 22. Application Libraries

Library	Version of this release
MMSCommLib	1.5.1
ModBusCommLib	1.5-1
ModBusTCPCommLib	1.4-1
ModemCommLib	1.4-1
MTMCommLib	1.3-1
ProcessObjBasicLib	2.6-3
ProcessObjDriveLib	1.6-2
ProcessObjExtLib	2.6-1
ProcessObjInsumLib	1.6-1
S3964CommLib	1.5-1
SattBusCommLib	1.5-1
SeqStartLib	1.4-1
SerialCommLib	2.3-1
SignalBasicLib	1.3-1
SignalLib	1.8-2
SignalSupportLib	1.3-1
SupervisionBasicLib	1.3-1
SupervisionLib	2.7-1
SupportLib	1.5-1
TCPCommLib	1.2-1
UDPCCommLib	1.2-1
VMTLib	1.1-0

Known Problems

This section details the Known Problems for AC 800M that exist in the system at the time of release.



All issues and problems categorized as *Controller* are valid for both the AC 800M and AC 800M High Integrity controllers.

Installation

Table 23 lists issues that may exist and affect the installation and migration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 23. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
PROFINET IO	
Upgrade PROFINET IO Feature Pack When doing the upgrade of PROFINET IO Feature Pack 1.2 to 800xA 6.0, some settings on CI871 get reset to default values. This affects Default Gateway, Red.Eth.recovery time and Watchdog factor. 800xA CON-IN-5100-001	Check CI871 settings after upgrade and enter the previous values if settings are changed.

Administration

Table 24 lists the issues that may exist and affect system or product administration at time of release including user, node and service structure related issues and problems. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 24. Administration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Control Builder	
Hardware tree is removed when changing product type Hardware tree is empty when changing product type to or from AC 800M High Integrity. 800xA CON-AD-5110-002	No workaround exists for this issue.
UDP and TCP protocols disappears in HW-tree if CPU type is changed When changing CPU type for an AC 800M Controller, for example, from PM861 to PM891, the protocol objects UDPProtocol and TCPProtocol for UDP/TCP will be removed. 800xA CON-AD-5110-001	The protocol objects UDPProtocol and TCPProtocol have to be manually reinserted again.

Table 24. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Problem at system upgrade if "No" is selected in Upgrade dialog</p> <p>After a system upgrade, a project upgrade may fail with an error message from the Control Builder "Open project xxx failed. Reason: Error upgrading source block. Automatic upgrade aborted."</p> <p>This happens if the user requests Open Project and then selects "No" in the Upgrade Project dialog ("Please verify that all required libraries are available in the system. Do you want to proceed?"), and then afterwards, without restarting the Control Builder, selects the same project and requests Upgrade Project.</p> <p>Any later attempt to open the project will fail with the same message.</p> <p>800xACON-AD-5020-042</p>	<p>Workaround:</p> <ol style="list-style-type: none"> 1. Select "Yes" in the Upgrade Project Dialog from the beginning. 2. Alternatively, after having selected "No", restart the Control Builder before attempting to upgrade the project. 3. Once the problem has occurred, it can be fixed by restoring the project from a backup, and then opening it according to workarounds 1 or 2.
<p>Problem starting Control Builder on a Terminal Server</p> <p>The Control Builder will crash due to a memory exception when launched on a Terminal Server, if the MMS Server is not already running.</p> <p>800xACON-AD-5100-042</p>	<p>Before starting the Control Builder, start the MMS Server explicitly from Windows Services on the Terminal Server PC. Alternatively, start a SoftController on the PC (this will start the MMS Server too).</p>

Table 24. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
OPC Server	
<p>AC 800M OPC server got no contact with controllers when Network Switch is restarted</p> <p>Windows cannot handle more than 64 simultaneous connection requests. If restarting network equipment resulting in more than 21 controllers to reconnect to an already running OPC server this can block the OPC server connections.</p> <p>800xA CON-AD-5100-044</p>	<p>No workaround exist.</p>
Controller	
<p>INSUM GroupStart Stop During Switch in Online Upgrade</p> <p>Group Start objects controlling INSUM objects from ProcessObjInsumLib may stop at an online upgrade. The groupstart objects may stop with the following alarm: Too few available objects.</p> <p>800xA CON-AD-5000-031</p>	<p>Re-synchronize the INSUM GroupStart objects manually after the Online Upgrade.</p>
Advant Fieldbus 100 (AF 100)	
<p>Application latency at hot remove of AF100, CI869</p> <p>IEC 61131-3 task latency might be detected when hot removing CI869 (AF100). A latency of up to 100 ms could be experienced with an AF100 configuration of 200 DSP units.</p> <p>800xA CON-AD-5110-003</p>	<p>Do not configure sort accepted task latency when using AF100.</p>

Table 24. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
PROFINET IO	
<p>AC 800M Webserver for PNIO: 'lifelist' tab is not getting updated</p> <p>There exist PROFINET communication issues when using Hirschmann switches. When using Hirschmann switches like RS20 or RS30, there might be sporadic communication problems with PROFINET and CI871. The cyclic communication might not start up and/or the life list in the AC 800M web interface will not get updated.</p> <p>800xA CON-AD-5100-034</p>	<p>The problem is caused by the Hirschmann switch that does not operate the PROFINET DCP communication services.</p> <p>To get it working, start the web based configuration tool of the switch and open the dialog <i>Advanced/Industrial Protocols/PROFINET IO</i>. Activate the PROFINET IO device functionality of the switch by setting Operation to On and confirm with Set. Later, change back this configuration.</p>
<p>Hirschmann switch RS20 as PROFINET IO device might flood the network</p> <p>The Hirschmann switch shows abnormal behavior if configured as PNIO device below CI871. In case the communication with CI871 was interrupted and gets restarted again the switch starts flooding the network. All CI871 connected to the same Ethernet will lose communication with its devices. A reset of the switch is necessary to resolve the problem.</p> <p>800xA CON-AD-5100-041</p>	<p>The problem occurs only if the interface and port-sub modules of PDev below the DAP are configured. These sub modules have node addresses ≥ 32768. Do not configure these sub modules.</p>

Table 24. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
FOUNDATION Fieldbus HSE	
<p>Hot Remove of a redundant pair of CI860 blocks the controller</p> <p>If both modules of a redundant pair of CI860 are hot removed simultaneously the controller cyclically makes print outs to the controller log file. This causes an increase of CPU load and blocks the reading of the controller log file. Also the 1131 application is partly disturbed.</p> <p>800xA CON-AD-5100-012</p>	<p>Do not Hot Remove both modules of a redundant pair of CI860 simultaneously. After Hot Removal of one module wait several seconds before doing a Hot Removal of the other module.</p> <p>If the error occurs, a parallel reset on both controllers in a redundant configuration solves the problem.</p>
<p>Slow reaction time for LD800HSE failover</p> <p>CI860 is slow at detecting redundancy failover of the LD800HSE, leading to a communication break in Client/Server communication for up to 35 seconds.</p> <p>800xA CON-AD-5100-005</p>	<p>No workaround exists for this issue.</p>
Online Upgrade	
<p>Online Upgrade - Not Possible to Acknowledge System Alarms</p> <p>If there are active system alarms on hardware units during Online Upgrade of controller firmware, these alarms will not be possible to acknowledge after the online upgrade is completed.</p> <p>800xA CON-AD-5100-043</p>	<p>No workaround exists for this issue.</p>

Table 24. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>High Integrity Controller with CI857 INSUM shut Down during Online Upgrade</p> <p>A High Integrity controller with CI857 INSUM may shut down itself during online upgrade. The shutdown occurs in upgrade step 7 and when the handover limit set to 1000ms.</p> <p>800xA CON-AD-5110-020</p>	<p>Increase the handover limit when performing an online upgrade of a High Integrity controller with CI857.</p>
Modbus TCP	
<p>Modbus TCP Communication through CI867 does not resume through default gateway when next hop gateway is dead</p> <p>A connection is established between the CI867 as master and external slave on another network. Communication goes through the default gateway as configured. When an ICMP redirect message is received from the default gateway, the CI867 correctly updates the next-hop gateway to the new gateway.</p> <p>However if the new gateway is dead, then the communication does not resume through the default gateway.</p> <p>800xA CON-AD-5110-016</p>	<p>In order to revert to the default gateway, the CI867 has to be hot swapped or the CI867 configuration has to be downloaded from the control builder to the controller.</p>

Table 24. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
IEC 61850	
CI868 - untested MMS Receive Logical Nodes Due to unavailability of SCL files, the following Logical Nodes have Not been tested for CI868 RCB receive communication from other IED : - ANCR, ARCO, AVCO - CPOW - POPF, PZSU - RDRS - SPDC - YEFN, YPSH, YPTR - ZAHN, ZBSH, ZCAB, ZCAP, ZCON, ZGEN, ZGIL, ZLIN, ZMOT, ZREA, ZRRC, ZSAR, ZTCF, ZTCR 800xA CON-AD-5110-025	In case these LNs are required to be configured in RCB dataset to CI868, it is recommended to perform informal communication test with CI868 before deploying in plant.

Configuration

Table 25 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 25. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Control Builder	
Paste Special with comment throws exception in Diagram Editor Performing a Paste Special in the Diagram Editor causes an exception error in case the copied area contains any comments. 800xACON-CN-5110-037	Perform a normal Copy / Paste for those areas that contains comments.
Paste Special of invalid Characters causes problem in Diagram The diagram editor has an insufficient validation of the entered names in the Paste Special dialog. It is possible to include non-valid characters, for example '.' in the name. The result is a non-working diagram. 800xACON-CN-5140-007	Make sure to enter valid characters in the Paste Special dialog.

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Working with Structured Data Types in Diagram Editor</p> <p>There are two issues when working with variables of structured data type in the Diagram Editor:</p> <p>The component selection dialog does not appear for structured component with more than one layer.</p> <p>Split page for component connections can sometimes cause component connections to 'disappear'.</p> <p>800xA CON-CN-5140-008</p>	<p>No workaround exist for the first issue.</p> <p>The compiler will discover the incorrect component connection. The connection must be deleted and reconnected.</p>
<p>Control Builder Crash when Tracing a sink of a Signal in FBD Editor</p> <p>When multiple sinks are found in the FBD editor, there is dialog opened for browsing multiple signal sinks.</p> <p>There is a problem when this dialog stayed open and the user is performing interactions from e.g. Plant Explorer. Control Builder will in this case end itself.</p> <p>800xA CON-CN-5100-085</p>	<p>Close the dialog for multiple signal sinks as soon as possible.</p>
<p>Undo in Sort A-Z and Z-A Fails</p> <p>If the sort A-Z or Z-A functionality has been used and then the undo button is used, the result will not be as expected.</p> <p>800xA CON-CN-5020-008</p>	<p>Close the editor without saving.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Using Recursive Relations between Objects or Between Libraries Not Allowed</p> <p>It is not allowed to use recursive relations between objects or between libraries. By using recursive relations between objects or between libraries, Controller may enter "Non responding mode".</p> <p>For example, if there exists two function block types A and B, you can declare a sub object of type A in type B, but if later on trying to declare a sub object of type B in type A the Control Builder might hang when the editor content is saved.</p> <p>800xA CON-CN-4100-002</p>	<p>If the Control Builder is not responding it has to be killed using Task Manager and then restarted.</p>
<p>Instance Specific Init Values on Embedded Instances</p> <p>When copying an Instance in Functional Structure and there are embedded instances of object types with Instance Specific Init values set, these Instance Specific Init values are not copied. The Instance Specific values are lost.</p> <p>800xA CON-CN-4100-005</p>	<p>Make sure to check all Instance Specific Init values in the source and make sure these values are set in the copied Instance before the first download.</p>
<p>String Length of 140 Characters Not Supported for String Constants</p> <p>The maximum length of a string constant is 137 characters even if the length of the string is set to 140 characters.</p> <p>800xA CON-CN-5020-006</p>	<p>No workaround exists for this issue.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Auto-Reservation Fails for Types Created Using Copy & Paste in Project Explorer</p> <p>If a Control Module Type or Function Block Type is copied and pasted in the Project Explorer the new type is not auto-reserved.</p> <p>800xA CON-CN-5000-071</p>	<p>The new type needs to be manually reserved by the user.</p>
<p>Using Templates from SeqStartLib Generates the Warning Message: Multiple Calls to Same Function Block</p> <p>The Multiple Calls to the Same Function Block compiler switch (introduced in System Version 5.0 SP2) generates warnings for the code that is copied when using the SFC2DSeqChain, for example, from SeqStartLib.</p> <p>800xA CON-CN-5020-010</p>	<p>The warnings can be ignored, or the Multiple Calls to the Same Function Block compiler switch can be set to None.</p>
<p>No User in Online Analysis Dialog</p> <p>If a download is started very soon after reservations of Applications/Controllers are released from another client, then the information about reservations will be wrong in the Online analysis window which says:</p> <p style="padding-left: 40px;">This unit is reserved by"-"</p> <p>800xA CON-CN-5020-007</p>	<p>No workaround exists for this issue.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Project Documentation from Control Builder</p> <p>When using the menu entries “Documentation...” and “Documentation Online...” in the Control Builder it is important to not generate too many pages.</p> <p>The time needed to generate the documentation in word increases dramatically when the number of pages increases. Sometimes it will take long time before the “Cancel” command is accepted by the system; if the document that is to be generated is very large.</p> <p>800xA CON-CN-5000-006</p>	<p>Instead of one big documentation of for example a large library, divide it into several smaller pieces like data types, function blocks and control modules.</p>
<p>Download prohibited if output I/O is disconnected when Copy unconnected outputs is active</p> <p>If disconnecting an output I/O channel, analog or digital with the option Copy unconnected I/O set to <i>Inputs/Outputs</i> or <i>Outputs</i>, the following warm download will be prohibited with the compile error 9164 - I/O channel was used by another application at last download.</p> <p>800xA CON-CN-5020-024</p>	<p>Disable Copy unconnected outputs in the settings on the controller object and initiate a new download.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Split and Join blocks not found when doing iterative searches</p> <p>When using Search and Navigation in Diagrams, connections of variables to Split and Join blocks are not found when doing iterative searches. Iterative searches are the default in online mode but can be turned off by disabling the setting “Iterative searches in Online/Test Mode” found in "Tools->Setup->Station->Search and Navigation Settings". For example, it would be expected to find a reference for a structured variable connected to the out port of a join block, but when using iterative searches this reference is not displayed. If a search is done in offline or without iterative search, the connection will be displayed as a reference as it should.</p> <p>800xA CON-CN-5100-017</p>	<p>No workaround exists for this issue.</p>
Controller	
<p>Controller Shutdown during Download after Import of Updated Hardware Library</p> <p>The AC 800M controller can shut down when doing reconfiguration changes of an updated hardware library. If the channel structure of the hardware library is changed and the Control Builder is not restarted before the reconfiguration, the result could become inconsistent and cause a defensive mechanism in the AC 800M Controller to perform a dual shutdown.</p> <p>800xA CON-CN-5020-093 Product Bulletin: 3BSE081800D0002</p>	<p>Always restart Control Builder after importing changes to an already existing hardware library.</p> <p>When using Environments always make sure the same Hardware Libraries are present in Production and Engineering environments.</p> <p>When performing an application download after updating an already existing hardware library with changes that affect number or type of I/O connections it can be verified that the changes are applied by checking that both Hardware Library and I/O Connections are marked for change.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Controller Shutdown during Load Evaluate GO (LEG) Download when 1131 Task without Assignment to Application is present in Controller</p> <p>The (dual) shutdown will occur if performing the LEG application download when an orphan IEC 1131 task exist in the controller i.e. a 1131 Task that is existing in the controller but the corresponding application is not present in the controller.</p> <p>800xA CON-CN-5100-082 Product Bulletin: 3BSE047421D0169</p>	<p>Before performing a LEG download inspect the IEC 1131 task configuration to ensure that all configured tasks are connected to applications already running in the controller.</p>
<p>SattBus on TCP/IP is not enabled in hardware simulated controller</p> <p>In a hardware simulated controller the SattBus TCP/IP communication is disabled.</p> <p>800xA CON-CN-5000-081</p>	<p>Make a warm restart (power fail with battery) of the Controller and then the SattBus TCP/IP communication will be enabled.</p>
Communication	
<p>IAC stop working when expected SIL configured different for same in variable</p> <p>When several clients are using the same IAC in variable but with different expected SIL in the same controller, this could cause the previously working clients to receive ISP and error codes from their request.</p> <p>800xA CON-CN-5110-013</p>	<p>There will be an warning message <code>Warning 1616: xxxx Communication variable with Expected SIL Non-SIL not recommended by compiler switch, when performing the reconfiguration.</code></p> <p>When setting expected SIL of an IAC in variable, the ongoing communication should not be disturbed.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Alarm status not reset when changing module types After replacing a wrong module type in Control Builder with the correct one and performing a succeeding download the alarm "Wrong module type" is still indicated as active (ACT) in the alarm list. The status indication in the hardware tree is handled correctly. 800xA CON-CN-5100-002	Unplug/plug the module to get the alarm status inactive (RTN).
Communication Variables Unresolved after Simultaneous Download Automatic resolve between controllers in different projects might fail if the remote controller has not been downloaded before. When simultaneously performing downloads, from different engineering stations to controllers that communicate via Inter Application Communication (IAC), the re-configured communication variables could stay unresolved. 800xA CON-CN-5100-020	Perform a new download to the Controller that is acting as client.

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>IAC stop working wen performing cold co-existence download</p> <p>If a cold co-existence download is attempted i.e. download from 5.1 RU3 to controller firmware 5.1, 5.1 RU1 or 5.1 RU2 IAC communication will not resume operation but stay as unresolved variables. A cold download will be performed either if the controller is empty of application program after e.g. a crash or a failed power fail resulting in removed applications.</p> <p>800xA CON-CN-5103-002</p>	<p>Upgrade controller firmware to the current release and perform the cold download.</p>
I/O Handling	
<p>No Status bit for Disabled Clamp of Analog Out Signals</p> <p>When the “Clamp Analog out values” parameter on the Controller hardware object is set to false, the corresponding status bit of the RealIO data type will not reflect this.</p> <p>800xA CON-CN-5100-007</p>	<p>No workaround exists for this issue.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Advant Fieldbus 100	
Problem with orphans on the AF100 bus Orphans are CDPs that are not owned by any communication interface. The reason could be that the owning communication interface has been removed or changed station number.	<p>To avoid orphans on the bus when changing the station number, follow these steps:</p> <ol style="list-style-type: none">1. Move the CI869 for which the station number should be changed to a free position in the hardware tree (in order to preserve its configuration in the control builder). There must not be any CI869 connected to the controller on the position to which the CI869 is moved in the hardware tree.2. Add a new CI869 with the old station number on the position where the CI869 where moved from in step one.3. Download and wait until the CI869 is configured.4. Go offline and delete the CI869 added in step three and move back the CI869 that where moved in step one.5. Change the station number to the desired number and download. <p>To avoid orphans when removing a CI869 from the hardware tree configuration follow these steps:</p> <ol style="list-style-type: none">1. Delete all hardware units below the CI869 that are to be removed.2. Download and wait until the CI869 is configured.3. Go offline and delete the CI869.
800xA CON-CN-5100-010	For these steps to have the intended effect, the CI869 must be connected to the bus.

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Restart of CI869 when deleting many subunits</p> <p>If a CI869 configuration has 1500 or more DSPs configured, a re-configuration download where more than 50 DSPs have been deleted or moved can make the CI869 restart. If a redundant CI869 configuration is used, both or only one of the CI869 in the redundant pair might re-start.</p> <p>Hence, such a reconfiguration might not be bumpless and the unit status for the hardware units below the CI869 will, in case of restart, show warnings related to restart, such as Device failure, and / or device failure on backup.</p> <p>800xA CON-CN-5100-011</p>	<p>Delete less than 50 DSP at a time</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
FOUNDATION Fieldbus HSE	
<p>Fraction Cannot be Configured with Fieldbus Builder FF</p> <p>For analog signals the information min, max, unit and fraction (decimals) can be configured in Fieldbus Builder FF. But only min, max and unit are available after upload in Control Builder. Fraction always gets the default 1.</p> <p>800xA CON-CN-5000-011</p>	<p>A change of the Fraction can be done by setting the value through the application in Control Builder.</p>
<p>FF CS Read block value not updated without error</p> <p>The Status output parameter of the FF Read/Write Function blocks uses the value 2 to indicate an overrun situation, that is, a new request shall be sent while the response to the previous request has not been received. At the cycle R/W blocks the Warning parameter will additionally be set to true in this situation.</p> <p>800xA CON-CN-5100-014</p>	<p>Typical reasons include insufficient cycle times (internally through cycletime parameter at the cyclic R/W blocks or externally through Req parameter of the non-cyclic R/W blocks) or simultaneous execution of multiple R/W blocks accessing the same CS signal. As a consequence of the overrun situation it cannot be guaranteed that the R/W operation of the affected block has been executed successfully. Furthermore, the block output parameters Valid/Error cannot be relied on for evaluation if a specific operation was successful or not. Therefore the indication of Status 2 requires to increase the cycle time and/or reduce simultaneous use of CS signals to a degree where status 2 is not indicated any longer.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
High Integrity	
<p>Corrupt hardware attributes after power fail recovery if preceded by aborted LEG session</p> <p>The problem described in 800xA CON-CN-5100-081 could still occur after a power fail recovery if preceded by the following conditions.</p> <ol style="list-style-type: none"> 1. LEG is performed with changed I/O connections 2. The LEG session is aborted (not accepted) 3. Power fail occurs before a new LEG or warm re-configuration is performed. <p style="text-align: right;">800xA CON-CN-5110-047 Product Alert 3BSE047421D0179</p>	<p>Ensure that a LEG session that includes changes I/O connections is completed successfully, for more details see the field communication.</p>
<p>Safety Shutdown when Writing to Min and Max Components of I/O Data Types in SIL3 Application</p> <p>Writing to the Parameter component of a RealIO variable (e.g. Min, Max) connected to an AI880 in a SIL3 application is not permitted and may lead to a safety shutdown of the controller.</p> <p>Notice that a compiler check for this is missing.</p> <p style="text-align: right;">800xA CON-CN-5020-092 Product Bulletin 3BSE047421D0178</p>	<p>Ensure that channel properties (min/max) for I/O variables is not changed from SIL3 1131 application code. This function will be restricted with a compiler error in future versions of Control Builder.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Download to Soft HI controller causes compile warning.</p> <p>When using SoftController HI the following warning will be given “<i>Warning: Firmware for unit PM865 HI/ TP830 at position 0 differs from firmware in connected library</i>”</p> <p>800xA CON-CN-5110-020</p>	<p>The warning is an indication that SoftController version and BasicHIHWLib versions differ but will not inhibit the use of SoftController HI as a debugging and test tool and can be ignored in this situation.</p>
EtherNet/IP and DeviceNet	
<p>Device Import wizard does not generate the hardware definition files correctly for eds files of analog devices that support little endian format.</p> <p>There are some Ethernet IP analog modules with channels of Real data type supporting little endian format. Channels of such devices not work properly after the eds files of such modules are imported using device import wizard.</p> <p>800xA CON-CN-5100-074</p>	<p>No workaround exists for this issue.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Class1 connection is going to initial state in PLC HW Editor</p> <p>This problem is observed when a Class 1 tag Read communication is established with the Allen Bradley Logix 5000 series controller. As part of reconfiguration, if the user performs the following, the Class 1 tag variables being already read shall be reset if there are no changes in values for any of the variables.</p> <ul style="list-style-type: none"> a. Adds or deletes another connection for the same PLC b. Moves the position of the PLC instance <p>800xA CON-CN-5110-010</p>	<p>No workaround exists for this issue.</p> <p>This problem shall not be seen in case the values for the variables being read are changing continuously after a reconfiguration as mentioned in the problem description, is done.</p>
<p>Addition and deletion of the 1734 AENT digital input module</p> <p>This problem is observed EthernetIP modular IO in case there are some IO modules available under an adaptor in Control Builder and not physically present. As part of the reconfiguration, if the user deletes any such EthernetIP modular IO, the CI873 shall restart and again establish connection with the physically existent IO modules.</p> <p>In case of redundant CI873, the primary CI873 shall restart and there shall be a failover to backup CI873.</p> <p>800xA CON-CN-5110-011</p>	<p>The workaround for this problem is that the user should always disable connection with the physically non-existent modular IO modules and perform a download. After this the user can delete the IO module and download again.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
PROFINET IO	
<p>High memory consumption in Controller when using hardware addresses with high numbers.</p> <p>When a PROFINET IO device with support of physical device management (PDev) is configured, the memory consumption in the controller increases by 200kb for each device. PDev is supported when high hardware addresses – 32768 to 32770 – are used for the Ethernet adapters below the Device Access Point (DAP) of the device.</p> <p>800xA CON-CN-5100-053</p>	<p>Observe the memory consumption of the controller when adding PROFINET devices below CI871. If the memory has reached a critical level, please contact ABB Technical Support.</p>
<p>I/O connection error with Beckhoff device on PROFINET</p> <p>A PROFINET device like the BK9053 from Beckhoff does not start up cyclic communication and indicates 'I/O connection error' in the Unit Status of Control Builder. This problem belongs only to devices that provide cyclic data also on sub modules directly configured below the DAP.</p> <p>800xA CON-CN-5100-083</p>	<p>No workaround exist.</p>

Table 25. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
IEC 61850	
IET600 tool crash for certain CI868 logical nodes IET600 tool crashes when importing CI868 icd file containing sending Logical Nodes TC1ATCC or TC2ATCC. 800xA CON-CN-5110-015	In IET600 tool, import the CI868 icd file that does not contain sending Logical Nodes TC1ATCC or TC2ATCC. OR Use CCT600 tool instead of IET600 tool.
CI868 Error due to Inaccessible ccf file. Downloading configuration to CI868 module leads to CI868 module error due to insufficient rights for Control Builder to access the ccf file generated. 800xA CON-CN-6000-002	Follow the steps prior to download: 1. Open the Local folder "C:\Users\<CurrentUser>" from Windows Explorer. 2. Click Continue to the Pop-Up window 'Access Denied. Do you want to Continue ?'. 3. The folder is opened and access right is available to the current user. 4. Perform a minor parameter change under CI868 Hardware tree. (Eg. MyIED Description value) 5. Download the Application again from Control Builder.

Operation

Table 26 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 26. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Control Builder	
Unintentional Stop Order from Process Object at Warm Download A Process Object set to use pulsed outputs and FBConfig set to 1 has an issue at warm download. An extra stop order is given to an already stopped object. There is no issue in case the object is running. This problem is present in the following objects: UniCore, BiCore, MotorBiM, MotorValveM, BiM, MotorBi, Bi, MotorValve, BiSimpleM, BiSimple, MotorUniM, ValveUniM, UniM, MotorUni, Uni, ValveUni, UniSimpleM, UniSimple. 800xA CON-OL-5000-096	The unintentional stop order should normally not be a problem since the object is already stopped.
SplitRangeCC does not Backtrack Correctly The SplitRangeCC control module returns an incorrect back value to the preceding modules in case both its outputs are in backtracking mode. The back value will be a copy of the value received from the preceding module. This results in a discontinuous control output once the backtracking ends. 800xA CON-OL-5100-120	Avoid connecting the outputs from SplitRangeCC to modules that can be set in manual mode etc.

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Resetting Forces in a SIL3 application might shutdown the controller</p> <p>If I/O forces are reset by application code in SIL3 application with function ResetForcedValue and the diagnostic function block ForcedSignals is executed later in the same application this could result in a controller shut down. The shutdown occur since PM and SM units will have a different perception of the account of actual forced I/O signals for a short time.</p> <p>800xACON-OL-5020-074</p>	<p>Workaround:</p> <p>There are different ways to avoid this problem:</p> <ul style="list-style-type: none"> • Review the execution order and verify that no call to ResetForcedValue is executed before the ForcedSignals function block. • If possible Execute ForcedSignals function block in a different applications. • Remove I/O forces by un-forcing from face plates rather than use application code and don't allow for force attempts if application is not in a state where they should be accepted.
<p>PID in ERF-mode with Feed Forward does not respond correctly</p> <p>Using Feed Forward in a PID-object in External Reset Feedback (ERF) mode does not result in the correct output value.</p> <p>This problem is present in the following objects: PidCC, PidAdvancedCC.</p> <p>800xACON-OL-5141-002</p>	<p>Deselect the ERF mode in case Feed Forward is to be used.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Load Evaluate Go: Added I/O Connection not Possible to Force in Control Builder Before Go</p> <p>If a new I/O connection is added and LEG is downloaded, it is not possible to force this I/O channel from the hardware editor in the Control Builder before Go is performed. (There is no problem with forcing I/O connections that already exist).</p> <p>Forcing the new I/O connection from Evaluate environment in Process works as it should.</p> <p>800xA CON-OL-5000-042</p>	<p>Force the I/O channel from Process Portal.</p>
<p>Load Evaluate Go: Changed I/O Out Channel Connection may result in Controller Shutdown</p> <p>If variable connections to Analog Out or Digital Out channels are added, moved, or removed during a LEG session the AC 800M controller may shut down when doing Abort or Accept.</p> <p>800xA CON-OL-5000-095</p>	<p>No workaround exists for this issue.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Confusing error message at download</p> <p>On deselecting any application in the Online Analysis dialog (uncheck the checkbox for the application), and the deselected application contains any compile errors, the following error will be displayed in the “Compilation Summary” dialog:</p> <p>Error 1491: XX error(s) displayed in dialog.</p> <p>In this case these errors cannot be seen in any dialog, even if the error message says that they can be seen.</p> <p>800xACON-OL-5100-012</p>	<p>No workaround exists for this issue.</p>
<p>Windows Indicating (Not Responding)</p> <p>The Control Builder is sometimes occupied with tasks that prohibit polling of Windows message queues. During these tasks the Control Builder windows might include the text “(Not Responding)” in the title text.</p> <p>800xACON-OL-5100-013</p>	<p>This text is added automatically by the operating system and does not imply that the Control Builder is hanging.</p>
<p>Multiple Value Labels in FD Viewer for Multiple Connections</p> <p>An output port in a FD code block can be connected to several input ports. In online mode each connection will have its own value label. This means that, multiple connections will have multiple value labels. This will give a cluttered appearance in the online viewer.</p> <p>800xACON-OL-5100-005</p>	<p>No workaround exists for this issue.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Wrong value for Average Interval Time</p> <p>The value for Average Interval Time presented in the Overview for Communication variables is a wrong value during the first 10 intervals.</p> <p>800xA CON-OL-5100-010</p>	<p>No workaround exists for this issue.</p>
<p>Confirm write dialogue does not show millisecond part for date and time variables</p> <p>If the millisecond part of a date and time variable is changed through confirmed write, then the values is not shown in the confirm operation dialog.</p> <p>800xA CON-OL-5101-009</p>	<p>The correct value is written to the Controller and the value can be verified in the online dialog in the Control Builder.</p>
<p>Library Objects based on UniCore and BiCore Objects, Priority Commands Enabled when object is Out of Service</p> <p>A deviation in behavior compared to intended design has been found for UniCore and BiCore library objects in ProcessObjBasicLib.</p> <p>When using library objects UniCore, UnicoreM, BiCore, BiCoreM or objects based on these basic elements, the object will be able to act on Priority Command input (PriorityCmd0, PriorityCmd1 or PriorityCmd2) even if the object is set to Out Of Service mode.</p> <p>The intended behavior is that Priority Command should be interlocked when object is set to Out of Service mode.</p> <p>800xA CON-OL-5100-101 Product Bulletin: 3BSE047421D0147</p>	<p>If Priority Commands are used with objects based on Unicore or Bicore these commands can be interlocked by the status of the parameter OutOfServiceMode.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Search & Navigation tool, missing or erroneous results if duplicated hardware unit name</p> <p>If more than one hardware unit has been assigned the same hardware instance name in the Project Explorer, the Search and Navigation tool will not be able to correctly identify and present all references to and from these units.</p> <p>800xA CON-OL-5100-112</p>	<p>Workaround: Assign unique names to hardware units.</p>
OPC Server	
<p>License Error for OPC IBA LOGGER</p> <p>There may be a temporary license annoyance message when the AC 800M OPC Server is started. The missing license feature is OPC_IBA_LOGGER.</p> <p>800xA CON-OL-6000-004</p>	<p>This message can be ignored.</p>
<p>Live Data Lost In Process Graphics after Download if Controller Is Unavailable</p> <p>If there is no connection to all controllers during a download, there could be a loss of live data in the process graphics. The time for which the live data is lost could be from a couple of seconds to minutes depending on how many Controllers have lost their connection.</p> <p>800xA CON-OL-5010-026</p>	<p>Disconnect all controllers that are not on the network from the OPC Data Access part.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>AC 800M OPC server cannot reestablish connection when lost connection to half an application</p> <p>If OPC server lost connection to one controller containing a distributed application, then communication could not be reestablished to the other controllers containing the same application after the OPC server was restarted.</p> <p>800xA CON-OL-5100-116</p>	<p>No workaround exist.</p>
800xA for AC 800M	
<p>Wrong Status in Alarm List for Redundant Hardware Units</p> <p>Redundant hardware units report “Redundant mode enabled” instead of “Status OK” in the Alarm List, in Plant Explorer, when the alarm state changes from active to inactive.</p> <p>800xA CON-OL-5000-005</p>	<p>No workaround exists for this issue.</p>
Controller	
<p>Low Time Quality for SNTP between Controllers</p> <p>The time accuracy for clock synchronization using SNTP between controllers may be up to 10ms. The specified accuracy is 1ms.</p> <p>800xA CON-OL-5110-034</p>	<p>No workaround exist. Consider using CNCP instead.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Latency Caused by Alarm Burst</p> <p>When an alarm changes state (gets activated, deactivated, or acknowledged), a small increment to the Task Execution time for a single scan (approximately 350 μs per changed alarm) will be added. If an alarm burst occurs, when many alarms are activated simultaneously, this could noticeably increase the Task Execution time. If latency supervision is enabled on the tasks that are executing the Alarm Condition Function Blocks or Control Modules, this could lead to a latency shutdown, if the Task settings are too tight.</p> <p>NOTE: Latency supervision is always enabled for SIL tasks.</p> <p>800xA CON-OL-4100-044</p>	<p>Consider the extra time for an alarm burst when tuning the task settings in the Controller, especially the Interval, Offset, and Latency settings. An alarm burst of 100 alarms (in one scan) adds about 35 ms to the execution time, 200 alarms adds 70ms, and so on.</p>
<p>Controller Can Hang if Tool Port Cable is not Connected in the Other End</p> <p>A cable connected to the tool port on the CPU (COM4), may cause the controller to hang during startup, if the cable is unconnected in the other end, or if the PC it's connected to is unpowered.</p> <p>800xA CON-OL-4100-009</p>	<p>Do not have an unconnected cable attached to COM4.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Communication	
Network Port on Redundant PM891 might Stop Working if Exposed to Excessive ARP Communication Network ports on a redundant PM891 might stop working if exposed to excessive amount of ARP communication. Address Resolution Protocol (ARP) is a protocol used to resolve network IP-addresses and MAC addresses and is a standard part of TCP/IP communication. The problem will affect the network port exposed to excessive amount of ARP communication. In a redundant network configuration a failover will occur to the backup network port and the port will be error marked. The problem can only occur if a CPU failover previously has taken place and then the controller network port is exposed to excessive amount of ARP communication 800xA CON-OL-5100-114 Product Bulletin: 3BSE047421D0171	To restart a network port that has locked up, perform a CPU failover.
Controller shutdown when using MMS on PPP The AC 800M controller may shut down if running MMS over PPP on CI853. The problem only occur if both channels on the CI853 is in use. 800xA CON-OL-5100-119	If running MMS over PPP on CI853, the other channel on the CI853 must be unused/unconfigured.

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>S3964ReadCyclic Valid Port toggles during valid Output</p> <p>The 'Valid' parameter on the S3964Readcyclic Function Block in S3964CommLib is not stable. It toggles true/false even though the data is getting updated.</p> <p>800xA CON-OL-5100-115</p>	<p>Use the Connect block to supervise the communication status.</p>
<p>Safe Peer-to-Peer communication timeout</p> <p>The default timeout for the MMSRead Control Modules for Safe P2P communication is 2 seconds. This is sufficient to handle a single TCP retransmission, but double TCP retransmissions may occur infrequently, depending on network and controller load. The second retransmission will occur after approximately 4 sec.</p> <p>800xA CON-OL-5020-008</p>	<p>To ensure that double TCP re-transmissions are handled without setting the safe P2P communication invalid, a P2P timeout of at least 5 seconds is required.</p>
<p>Modbus TCP communication throughput with CI867 degrades for cycle times less than 100 ms.</p> <p>There is a delay in sending packets to slave by the CI867 master when the cycle time for the Read/write requests are less than 100 ms. For cycle times above 100 ms, the packets are send by the CI867 to the slave properly without any delay.</p> <p>800xA CON-OL-5020-069</p>	<p>There is no workaround. For communication without delays, the cycle times for sending Read/Write requests should be more than 100 ms.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Disturbance on INSUM Communication Result in Incorrect Indication in GroupStartStandby If there is a communication error (cable break) to the MCU, the indication in the GroupStartStandby is sometimes wrong. The indication shows that the MCU's are running, but they are not. 800xA CON-OL-5000-045	No workaround exists for this issue.
I/O Handling	
I/O Running on CI865 Started too Late Warning! Start of Applications and I/O running on CI865 are not synchronized at startup. The controller applications may start before all CI865 I/O has been started. 800xA CON-OL-5000-010	Use the <i>IO.Status</i> value to interlock start-up actions.

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>OSP Values are Reset During Startup</p> <p>Warning!</p> <p>The following issue occurs after the application(s) in the controller for some reason are erased (for example after a power fail with no attached battery or after making a long press on INIT). The I/O channels will in this state have entered their pre-configured OSP values. In order to restart the controller, the application(s) must be re-downloaded from Control Builder.</p> <p>When the download of the application(s) is performed, just before the applications are restarted, I/O channels with pre-configured OSP values will be de-energized for a couple of seconds. After that, the I/O will be set by the now running application(s).</p> <p>800xA CON-OL-4100-014</p>	<p>Prior to the download; make sure the process is set into a state where it can accept the temporarily de-energized outputs.</p>
<p>S900: I/O OSP Cleared</p> <p>Warning! OSP on S900 I/O will be cleared in the following two occasions:</p> <ul style="list-style-type: none"> • During a short period of time after resuming after a controller power fail. • Controller task abort, due to a task having executed for too long. <p>800xAIO9-OL-4100-001</p>	<p>No workaround exists for this issue.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Problems with rmcPTCLib in AC 800M</p> <p>Hot Swap of CI856 in an AC 800M is not supported if rmcPTCLib is used. In that case a Hot Remove of the CI856 may cause a Controller Crash.</p> <p>PowerFail restart with CI856 in AC 800M may cause a Controller Crash if rmcPTCLib is used.</p> <p>800xA CON-OL-4104-001</p>	<p>Load the project on a CF card so that the application restarts if there is a controller crash.</p>
FOUNDATION Fieldbus HSE	
<p>Pending Error Messages in Hardware Unit Status Are Reset</p> <p>A CI860 module with the HSE network disconnected indicates 'Channel Error' in the Hardware Unit Status. If the CI860 is reset under this condition, it will restart without showing the error even though the HSE cable may still be disconnected. The same will also happen after a controller cold start.</p> <p>800xA CON-OL-4100-020</p>	<p>Check the status information on the single FF signals to find out about the actual communication status after restart.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Problems with FF Status Value Initialization</p> <p>The FF status values are not always properly initialized or reset. There are two different actions when these FF status values need to be initialized:</p> <ul style="list-style-type: none"> • starting a CI860 module • removing a channel/signal on one side of a Controller>FF / FF>Controller signal connection <p>The CI860 I/O-channels are initialized with zeros when a CI860 module starts. This leads to a FF status of 0 on connections, which are used, but not updated. The problem exists in both directions IEC>FF and FF>IEC.</p> <p>Removing a channel/signal: If the writing side of a Controller>FF signal connection is removed, the last written value, especially the status, is kept. On an FF>Controller signal connection the status is set to 'BAD', if the FF signal is removed, which is ok.</p> <p>Starting a CI860 module: The current implementation does not ensure, that no longer used values are indicated by a 'BAD' FF status.</p> <p>800xA CON-OL-4100-021</p>	<p>Pay attention to remove variables connected to channels on CI860 that are no longer connected to an FF application, since they are incorrectly indicated as OK.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>FFHSE C/S Read and Write request gets status error (2) first and then status OK</p> <p>FFHSERead and FFHSEWrite function blocks might temporarily indicate error status 2 which means warning. But the requests are operated successfully and status gets OK finally.</p> <p>800xA CON-OL-5101-010</p>	<p>Wait for some time after sending the request, before operating the error status.</p>
<p>CI860: Client/server connection breaks after change of IP address</p> <p>When changing the IP-addresses of a redundant pair of CI860 the active Client/Server communication via FFHSERead and FFHSEWrite is stopped. The cyclic Publish / Subscribe communication is not affected. Changing the IP-address of a non-redundant CI860 is working with C/S as supposed.</p> <p>800xA CON-OL-5101-011</p>	<p>Perform HotSwap of primary CI860 to restart the Client/Server communication.</p>
MOD 5	
<p>Internal FW error in CI872 at application download</p> <p>Internal FW error in CI872 at application download and CI872 modules are not up. The message "Internal HW Error (see CI Log)" alarm is shown, and both CI872 modules in case of redundancy or single CI872 module in case of non-redundancy are not up.</p> <p>800xA CON-OL-5100-066</p>	<p>Workaround for this scenario, where no CI872 module is up, is to manually hot swap the CI872 modules.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Switchover occurs despite CPUID conflict in backup CI872</p> <p>Failover from primary CI872 module to the backup CI872 module occurs, even though CPUID conflict exists in the backup CI872 module.</p> <p>800xA CON-OL-5023-006</p>	<p>In a redundant configuration of CI872 modules, always ensure that the backup CI872 is correctly configured, by checking its unit status in the Hardware Tree.</p>
<p>MTMConnect FB doesn't show '-7006' while FOC is disconnected</p> <p>The MTMConnect function block does not update the status of the physical connection when MTMReadCyc or MTMDefCyc function blocks are not connected to that MTMConnect.</p> <p>800xA CON-OL-5023-008</p>	<p>This occurs when MTMConnect is not connected to MTMReadCyc or MTMDefCyc function blocks of MTMCommLib. If any error in the physical connection occurs, the status code -7006 (for any error in physical connection) is not displayed for MTMConnect.</p> <p>To get an update of the status of the physical connection through an MTMConnect function block in an application, either connect an MTMReadCyc function block to the MTMConnect and enable this MTMReadCyc, or connect an MTMDefCyc function block to the MTMConnect.</p>

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
IEC 61850	
<p>CI868 Module restart during Co-existence Download and SCD-File Reconfiguration</p> <p>CI868 Module shall restart leading to disturbance in connected IEC61850 Network in the following scenarios:</p> <ul style="list-style-type: none"> • Downloading application after upgrading to new Control Builder M with newer CI868HwLib in Connected Library. CI868 shall not restart during subsequent downloads from Upgraded Control Builder M project. • Downloading application after importing Reconfigured Scd-file. This is applicable for each download with re-configured scd-file. <p>800xA CON-OL-6000-001</p>	No workaround exists for this issue.
<p>CI868 does not support receiving same signal from GCB as well as RCB</p> <p>Configuring same LN signals in GCB as well as RCB datasets leads to communication error in CI868 module.</p> <p>800xA CON-OL-6000-002</p>	No workaround exists for this issue

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
TCP Communication Library	
<p>User defined UDPProtocol allow broadcast set to false has no effect</p> <p>Even though the parameter AllowBroadcasts is set to False, it is still possible to send (and receive) broadcast messages.</p> <p>800xA CON-OL-5110-008</p>	No workaround exists for this issue.
High Integrity	
<p>Safe Online Write - Error Handling</p> <p>When performing a Safe Online Write operation and the Confirm Write Support aspect is missing, the standard (non-SIL) confirm dialog implemented in PPA shows up instead of an error message telling that the confirm write support is missing.</p> <p>It is possible to confirm the write operation but it will not be recognized as a SOW operation neither by the OPC server nor the HI controller, hence the write operation will never be accepted by the HI controller.</p> <p>800xA CON-OL-6000-003</p>	No workaround exists for this issue.

Table 26. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Discrepancy in application if all MMS communication was disabled.</p> <p>A MMS discrepancy in SIL3 application could occur if all MMSReadXX control modules, connected to the same Partner, was disabled at the same time and then later enabled. This could lead to a controller shutdown if MMS input data was used in critical loop.</p> <p>For SIL2 applications there will not be any faulty data. The effect of this problem will be that the MMS data will be marked as Valid one scan before the fault counter is fully incremented, but only if data is correct.</p> <p>800xA CON-OL-5020-075</p>	<p>No workaround exists for this problem.</p>

Preparations Before an Online Upgrade of an AC 800M using CI857

Use the INSUM MMI or the INSUM OS to set the parameter “FailSafe Heartbeat” on the INSUM TCP/IP Gateway to a value which is 1/4 of the shortest “Failsafe TimeOut” on the connected INSUM devices (MCUs, Circuit Breakers).

In normal operation CI857 sends FailSafe heartbeat messages to the INSUM subnets according to the parameters on the INSUMGateway hardware unit.

During the online upgrade, CI857 disconnects from the INSUM system for some time and since there is no redundancy for CI857 no commands can be sent to the INSUM system and the measurement values are not updated during this time.

After the online upgrade CI857 reconnects to the INSUM system and the communication is reestablished.

The time the connection is broken between CI857 and the INSUM system is different depending on if the firmware of CI857 is upgraded or not.

If the firmware of CI857 is upgraded, it is done in step 8 of the online upgrade together with “the remaining units”.

Before CI857 disconnects from the INSUM system it requests the INSUM TCP/IP Gateway to send Failsafe Heartbeat to all INSUM subnets so that this continues until the CI857 reconnects.

If CI857 for some reason does not reconnect within the expected time the INSUM TCP/IP Gateway stops sending Failsafe Heartbeat to the INSUM devices (MCUs and Circuit Breakers) and they will go to Failsafe. The timeout used by the INSUM TCP/IP gateway is set by the AC 800M depending on the expected time until it can reconnect. This is described below.

If the firmware of CI857 is not upgraded the communication between CI857 and the INSUM system is broken for some seconds during step 7 of the online upgrade. This is the case if the firmware is up-to-date already before the online upgrade of the controller and an upgrade of CI857 is indicated as “Not Available” in step 2 of the online upgrade. This is also the case if an upgrade of CI857 is indicated as “Recommended” in step 2 of the online upgrade, but the user decides not to upgrade. If the CI857 does not reconnect within 15 seconds after the switch in step 7 the INSUM devices will go to failsafe.

If an upgrade of CI857 is indicated as “Recommended” and the user decides to do the upgrade the communication between CI857 and the INSUM system is broken two times. First for some seconds during step 7 and then later for a longer time during step 8 while the firmware is downloaded. Between these communication breaks the communication is executed as normal. If the CI857 does not reconnect within 300 seconds after the start of the firmware download the INSUM devices will go to failsafe.

If an upgrade of CI857 is indicated as “Mandatory” the communication CI857 and the INSUM system is broken at the switch in step 7 and not reestablished until after the upgrade of the firmware of CI857. If the CI857 does not reconnect within 900 seconds after the switch the INSUM devices will go to failsafe.

In this upgrade case it is important to notice that the time the communication is broken depends on how long time the user waits in step 8 in the online upgrade wizard.

During the switch in step 7 the Status of the INSUMReceive and INSUMWrite blocks may be -5324 or -15 for up to 8 seconds. The user needs to take this into account in the application. ProcessObjInsumLib takes care of this internally.

If an upgrade has been started and the communication between the CI857 and the INSUM TCP/IP Gateway is interrupted during step 3, where Redundancy is turned off, the upgrade will be terminated.

The upgrade is possible to perform if the communication between the CI857 and the INSUM TCP/IP Gateway is disconnected during the entire upgrade session.

Application Change Management

Operation

Table 27 lists the operational issues that may exist and affect the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 27. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
In few instances, check-in of objects/entities with more than 100 child/ dependant objects, for example Libraries, Graphic Displays, HSE subnet may take significant amount of time. 800xAACM-OL-6000-001	Planning is required before performing the operation.
If ACM server is upgraded from SV 5.1 FP4 latest Revision to SV 6.0 Rev A, then Check In of any object from 'Workplace application' fails with the following message: "Column 'ModifiedDateTime' does not exist. It may have been deleted by another use" 800xAACM-OL-6000-005	Close the opened ACMClient application and go to the path 'C:\ProgramData\ABB'. Rename the folder named 'ACM Base' to 'ACM' and launch the ACMClient again with the same login credentials as before.

Installation

Table 28 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 28. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In rare cases, opening the SharePoint site after running the 'SharePoint 2013 Products Configuration Wizard' of 'SharePoint Foundation 2013' fails with the following message:</p> <p>Server Error in '/' Application. The resource cannot be found.</p> <p>'SharePoint Central Administration' site also fails to open displaying the same message and results in failure of the ACM Server configuration.</p> <p>800xAACM-OL-6000-004</p>	<p>Open IIS Manager, Select the SharePoint Central Administration in the left pane. Click on the Advanced settings... option in the right pane. Check that the Physical path setting does not have an extra "\".</p> <p>Example:</p> <p>If the Physical Path setting shows as C:\inetpub\wwwroot\wss\VirtualDirectories\...</p> <p>Remove the extra "\"" to change the setting to C:\inetpub\wwwroot\wss\VirtualDirectories\...</p>

Information Management

Configuration

Table 29 and Table 30 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 29. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Data Direct XLA fails to load with the following error: <i>Microsoft Visual Basic</i> <i>! Object library invalid or contains references to object definitions that could not be found.</i> 800xAINM-CN-5103-036	Execute the following to remove old cached EXD files: C:\ProgramData\ABB\IM\DataDirect\Bin>DeleteFilesAction.exe This will find and delete all EXD files on the System Drive allowing the DataDirect XLA to load, the next time Excel is opened.
After update or upgrade of system, configuration of Action Aspect and Scheduling Definition aspect is set to default values on AO Asset Condition History and AO Running Time Report Job description objects. 800xAINM-CN-5100-003	Restore the Action Aspect and Scheduling Definition aspect configuration manually on the Asset Condition History and AO Running Time Report Job description object.
It is difficult to recover an IM node when it is deleted from the system, because objects under the node object are not deleted. 800xAINM-CN-3600-0004	Object under the node object has to be deleted and recreated when the IM is added back into the system, including fixing the GUID for the PPA basic history.

Table 29. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
When an Information Management server object is deleted from the Node Administration structure, the corresponding Inform IT History Objects are not deleted from the Node Administration structure. 800xAINM-CN-3500-0004	Delete the objects manually. They are located at the top of the Plant Explorer.

Operation

Table 30 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 30. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
The navigation shortcuts on Desktop Trends fail to work properly on systems that have been upgraded to 800xA 6.01 from a 32-bit version of 800xA. 800xAINM-OL-6000-013	To resolve this issue the saved trend files must be updated. Use the following procedure for each saved trend file. 1. Open the trend file using Notepad. 2. From the Edit menu select Replace... 3. In the Find what field type Program Files 4. In the Replace with field type Program Files (x86) 5. Press the Replace All button. 6. Press the Cancel button. From the File menu select Save .

Table 30. Operational Issues (Continued)

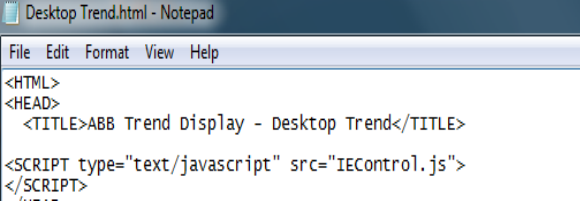
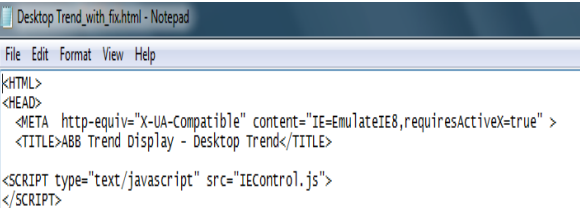
Issue	Workarounds, Clarifications, and Helpful Hints
<p>Desktop Trend files migrated from earlier versions of 800xA will not display properly in version 6.0 due to a compatibility problem with the newer version of Internet Explorer.</p> <p>800xA INM-OL-6000-011</p>	<p>To resolve the issue a compatibility tag needs to be added to the saved Trend file.</p> <ol style="list-style-type: none"> 1. Open the Desktop Trend HTML file with Notepad. The first few lines looks as follows:  <ol style="list-style-type: none"> 2. Insert the following line of text between the <HEAD> and <TITLE> tags in the HTML file. <pre><META http-equiv="X-UA-Compatible" content="IE=EmulateIE8,requiresActiveX=true"></pre>  <ol style="list-style-type: none"> 3. Save the HTML file and exit Notepad. The Desktop Trend file should now display properly.

Table 30. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Excel report templates that contain data bound tables connected to the Information Manager ODA ODBC connection have been seen to fail to properly update when the report is executed.</p> <p>800xA INM-OL-6000-010</p>	<p>Two actions may be needed to resolve this issue. First review the connection string for the ODBC query. It is found on the Data ribbon, Connection Properties Dialog on the Refresh All drop-down, Definition tab. Verify the port number for ODBC connection is correct. It should be 28996. If the port number is correct or updating the port number does not correct the issue then uncheck Enable background refresh from Usage tab of the Connection Properties Dialog as well.</p>
<p>When attempting to launch IM ACC Setup from the ABB Batch PDL Extractor by clicking on the Localhost test, a runtime error 5 will be seen and the setup application will fail to launch.</p> <p>800xA INM-OL-6000-007</p>	<p>To launch IM ACC Setup use the ABB Start Menu and launch the application which you will find under Information Mgmt>Utilities.</p>
<p>While installing Oracle the message OraProvCfg.exe has stopped working has been seen.</p> <p>800xA INM-IN-6000-006</p>	<p>Acknowledge the message and the Oracle Installation will successfully run to completion.</p>
<p>It is not possible to open the on-line help file from the Display Services Client application.</p> <p>800xA INM-OL-6000-001</p>	<p>To find any needed Display Services Client help please refer to the Information Management Display Services User Manual.</p>
<p>A Trend Display launched from the PDL Browser will not properly show data if the PDL Browser is configured with a time format of DD-MM-yy.</p> <p>800xA INM-OL-6000-002</p>	<p>To avoid this issue, do not use the DD-MM-yy time format in the PDL Browser.</p>

Table 30. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Pressing the Cancel button on the A/E Linked Configuration Aspect does not restore the configuration of the aspect to the previously saved settings.</p> <p>800xAINM-OL-6000-003</p>	<p>To restore the settings in the A/E Linked to those previously saved select a different aspect and then return to the A/E Linked Configuration Aspect. This will refresh the configuration information to show the stored configuration.</p>
<p>PPA will add a backslash "\" to escape certain characters in the filter string provided to the hsArchiveService. Specifically, the "-" will be passed as "\-". The new code does not remove the escape character and this will prevent message from being returned.</p> <p>800xAINM-OL-6000-004</p>	<p>There is no workaround for this issue</p>
<p>When the Display Services Client is launched for the first time for a given user a short series of installation dialogs will be shown. After the dialogs clear the application is launched properly and the installation dialogs will not be seen when the Display Services Client is launched in the future.</p> <p>800xAINM-OL-6000-005</p>	<p>Allow the installation dialogs to complete. No further issues should be seen.</p>

Table 30. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>The DataDirect menu is sometimes missing in Office 2013.</p> <p>800xA INM-OL-5104-043</p>	<p>Follow the steps below to fix this issue. The procedure must be executed for each user that encounters this problem.</p> <ol style="list-style-type: none"> 1. Open Excel. 2. Click the Add-ins tab. 3. Click the Options button of DataDirect to open Options window. 4. Go to View tab and change any of the options there and then click OK. The DataDirect menu will now be shown. The problem will not happen again for this user.
<p>Scheduler Data Collection Actions will fail, with an error message Failed to Activate Log Number(s), if any of the logs in the Log List are from an AC400 controller and contain a period (".") in the log name.</p> <p>800xA INM-OL-5104-041</p>	<p>There is no workaround for this issue.</p>
<p>Excel may crash on exit after viewing a report that was launched from the File Viewer aspect. Dismiss the Excel error dialog to close Excel. This condition does not cause any data loss or corruption.</p> <p>800xA INM-OL-5100-001</p>	<p>There is no workaround for this issue.</p>

Table 30. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Scheduled reports may appear to fail when using the Save to History option with the following error: <i>Job Action: Action Aspect, Completed (failure), Error while running automation type EX: Method '~' of object '~' failed</i></p> <p>This error is occasionally seen only on reports that have been configured with the Save to History output option enabled. In spite of the error message, the output file will still be correctly written to the history log. However, if the report is also configured to be exported to an 800xA Object (in addition to the Save to History output option) the report will not be written to the Completed Report Object when the error occurs.</p> <p>800xA INM-OL-5100-002</p>	<p>If reports are configured to only store to History, then no action is required - the reports are still being stored properly.</p> <p>If storing completed reports to History is not required, the issue can be avoided by clearing the Save to History output option. In cases where both Save to History and Export to an Object Path options are necessary, reports are not written properly to the Completed Report Object, but can still be viewed through the History log.</p> <p>Failed reports can also be re-run manually.</p>
<p>Alarms and Events from both the provider system (multisystem integration functionality) appear in the 800xA Alarm and Event list, however only the alarms are recorded by the DataDirect function within Information Management.</p> <p>800xA INM-OL-5010-061</p>	<p>There is no workaround for this issue.</p>

Table 30. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>A batch report scheduled to be run at the completion of a batch may miss data intended for the report.</p> <p>800xAINM-OL-5020-043</p>	<p>If a batch report is intended to be automatically scheduled by the Batch Manager to include all data associated with a batch, include a delay block in the batch recipe just prior to the end of the recipe. The delay should include enough time (approximately 90 seconds) to ensure all data is available for reporting. Reports executed manually will contain all data.</p>
<p>The time offset feature of the Desktop Trend has been observed to cause the trace to disappear.</p> <p>800xAINM-OL-5020-041</p>	<p>To obtain similar results, instead of using the time offset feature, modify the traces vertically by adjusting the range value of the Y-axis.</p>
<p>When using the Store Original Value feature of Information Management history logs type 5 (numeric), the original status is not stored when the value is modified.</p> <p>800xAINM-OL-5020-018</p>	<p>History logs of type 1 should be used if the ability to save the original status when the status value is modified is desired.</p>
<p>AID client (Display Services) displays, sometimes use incorrect fonts. Due to a change in Windows functionality, AID client displays, now uses font information from registry keys instead of the aidfonts.ini file.</p> <p>800xAINM-OL-4100-0036</p>	<p>Add the HKEY_CURRENT_USER\SOFTWARE\ABB\AID\Fonts\FaceName_0, ...FaceName_1, and ...FaceName_2 keys to the registry. Use the value names and values listed below for all three keys:</p> <p>Value Name (Default) Font</p> <p>Name Ariel</p> <p>BaseSize_0 11</p> <p>BaseSize_1 14</p> <p>BaseSize_2 17</p> <p>BaseSize_3 18</p> <p>BaseSize_4 23</p> <p>BaseSize_5 33</p>

PLC Connect and SoftPoint Server

Installation

Table 31 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 31. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
PLC Connect Install Location. 800xAPLC-IN-5000-001	PLC Connect will not function correctly if installed in any other location other than the default location. This affects both PLC Connect and the SoftPoint server.

Configuration

Table 32 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 32. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
In rare instances, the Generic Control Network Configuration Aspect is not restored.	The Aspect can be created manually as follows: 1. Navigate to Control Structure and right-click on the Generic Control Network object and choose New Aspect... 2. Check the List Presentation check box. 3. Select Generic Control Network Configuration and click Create .

Table 32. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In rare instances, the Basic History server cannot log values for PLC Connect after an upgrade.</p>	<p>If the trends for PLC Connect are not showing any values in the trend window, then restart the Basic History server on that node in the Service Structure.</p> <ol style="list-style-type: none"> 1. Select Service Structure 2. Locate Basic History and expand the branch. 3. Expand the Service Group branches. 4. Locate the Service Provider running on the PLC Connect node (normally the node name is part of the service provider name.) 5. Select the Service Provider Definition Aspect. 6. Un-check Enabled and click Apply. 7. Check Enabled and click Apply.
<p>The PLC Uploader Filter dialog box displays the wrong type for certain Items.</p> <p>800xAPLC-CN-5101-003 Product Bulletin: 9ARD122017-24</p>	<p>Contact the ABB support line if you require assistance with this issue.</p>
<p>Unable to add a controller using the SattBus protocol from the shortcut menu.</p> <p>800xAPLC-CN-5102-001</p>	<p>Add a controller from the generic control network configuration aspect.</p>

Table 32. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Upgrade from 4.1 or older to 5.0 does not work correctly. 800xAPLC-CN-5010-007	The old Alarm Control Aspect cannot be deployed in System Version 5.0. Therefore this must be changed to the new Alarm Control Aspect made for System Version 5.0. After executing the above specified changes, PLC Connect Service group for the Event collector must be changed. In the aspect Service Group Definition, change Collecting Mapping to "Ads OPC Event Server". Also the Event/Alarm list must be reconfigured. Do not use lists with 4.1 in front of name. Ensure to use Display Tool after these changes. It is likely to affect SoftPoint server.
Not possible to change the SB-channel. 800xAPLC-CN-5011-004	After deploy the CommServer is owner of the SB-driver and therefore it is not possible to change the SB-channel. Stop the CommServer. It is not likely to affect SoftPoint server.
Minimum size of Modbus telegrams too large in PLC Connect. 800xAPLC-CN-5020-011	The Modbus driver does not support telegrams smaller than 32 Coils and 16 registers. This does not affect the SoftPoint server.

Operation

Table 33 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 33. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Limiter Alarms are not individually visualized in the Object Dialogue. 800xAPLC-OL-5011-001	The Limiter Alarms that is disabled through the PCA property LimiterXisDisabled is not visualized. It is likely to affect SoftPoint server.
Huge increase in gdi object count while clicking the softpoint objects. 800xAPLC-OL-5100-003	If you perform a consistency check on an application containing a large amount of PLC Connect or Softpoint signals the consistency checker tool can crash. Select smaller portions of the PLC Connect or Softpoint application and run the consistency checker in several repetitions if the checker tool crashes. This affects both PLC Connect and the Softpoint server.

SFC Viewer

Operation

Table 34, Table 35, Table 36, and Table 37 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 34. AC800M Configuration, Operational Issues

Issues	Workarounds, Clarifications, and Helpful Hints
Communication Variable faceplate does not open from SFC Viewer Aspect. The following error occurs: 'Object not found'. 800xASFC-OL-5140-005	No workaround exists for this issue. Note: This problem is only visible on ABB Control Software for AC 800M version 5.1.1-2.
In SFC Viewer, when an SFC is configured in Diagram Types, the dynamic animation does not happen for instances created using the following type of animation at the application level: <ul style="list-style-type: none">Step animations in the step viewer.Transition window logic animations. 800xASFC-OL-5130-015 800xACON-OL-5110-014	No workaround exists for this issue.
Multiple assignments for variables using structured text in Control Diagrams may not generate the driving object path using SFC Viewer Uploader. 800xASFC-OL-5130-024	No workaround exists for this issue.

Table 34. AC800M Configuration, Operational Issues (Continued)

Issues	Workarounds, Clarifications, and Helpful Hints
When you include a timer in a calculation, it prevents the animation of conditions that are in the same logic statement as the timer. Important800xASFC-OL-5104-001	No workaround exists for this issue
If the project constant used in transition is of non-Boolean type, clicking Unfulfilled Criteria (in online mode) in the transition window results in display of two entries of this project constant. 800xASFC-OL-5110-010	No workaround exists for this issue.
While working with Multisystem Integration SFC Viewer status except the active step is not synchronized between provider and subscriber. 800xASFC-OL-6000-001	No workaround exists for this issue.

Table 35. AC800M Control Module Type and Diagram Type, Operational Issues

Issues	Workarounds, Clarifications, and Helpful Hints
<p>If a parameter with direction <i>in</i>, used in a sequence, is modified after obtaining the driving object path, further upload (through SFC Uploader aspect) does not update this modified signal.</p> <p>800xASFC-OL-5110-005</p>	<p>No workaround exists for this issue.</p>
<p>Transition view of SFC Viewer sometimes does not show the complete path of a variable transition, resulting in difficulty to identify the actual variable that is referred.</p> <p>For example:</p> <p>If the variable name is A.B.C and the user enters "1" in the Tag separator field, then the variable name displayed in the Transition window is <i>ObjectName.C</i>.</p> <p>If the variable name is A.B.C and the user enters "2" in the Tag separator field, then the variable name displayed in the Transition window is <i>ObjectName.B.C</i>.</p> <p>800xASFC-OL-5130-017</p>	<p>No workaround exists for this issue.</p>

Table 35. AC800M Control Module Type and Diagram Type, Operational Issues (Continued)

Issues	Workarounds, Clarifications, and Helpful Hints
<p>In some instance when workplace log over is enabled, performing SFC uploader ends up in error.</p> <p>800xASFC-OL-6000-002</p>	<p>Before performing SFC uploader please follow the steps mentioned below.</p> <ol style="list-style-type: none">1. Log in as 800xA user having Local Admin rights on that node.2. Open Control Builder with elevated privileges (Right Click on the tool and select "Run as Administrator" from the context menu)3. Open the respective project.4. Then Press Upload.
<p>Object navigation in a transition may not work if the name of a variable in Engineering Workplace is different from Control Builder M. By default, Control Builder M name is considered.</p> <p>800xASFC-OL-5130-012</p>	<p>No workaround exists for this issue.</p>

Table 36. AC800M Function Designer Configuration, Operational Issues

Issues	Workarounds, Clarifications, and Helpful Hints
<p>If an output reference variable, introduced in a step, is used as input reference in transitions in the same sequence or a different sequence, the action window corresponding to this step displays multiple tags with the same output reference variable name.</p> <p>800xASFC-OL-5110-006</p>	No workaround exists for this issue.
<p>The object navigation feature from the tag displayed in the List View of transition window is not supported if the description of the tag contains an “_” (underscore) character.</p> <p>800xASFC-OL-5110-007</p>	No workaround exists for this issue.

Table 37. Freelance, Operational Issues

Issues	Workarounds, Clarifications, and Helpful Hints
<p>The operator Workplace closes down after opening SFC Viewer of Freelance connect in online mode after starting the SFCViewer with a Freelance SFC.</p> <p>800xASFC-OL-5102-006</p>	No workaround exists for this issue.
<p>In SFCViewer for Freelance alternative branches cannot be selected to direct the way to go in TIPP modes.</p> <p>800xASFC-OL-5102-003</p>	No workaround exists for this issue.

Table 37. Freelance, Operational Issues (Continued)

Issues	Workarounds, Clarifications, and Helpful Hints
<p>Freelance SFC Structure with parallel branches, the yellow tip keys (jog mode) for the transitions in the right branch are not visible and cannot be operated. They are covered by the small flags of the left transitions.</p> <p>800xASFC-OL-5140-007</p>	<p>No workaround exists for this issue.</p>
<p>The 800xA Workplace closes down due to insufficient memory while performing SFC Uploader. This is due to same variable being referenced in both input and output, inside structured text code of driving Control Module Type.</p> <p>800xASFC-OL-5140-008</p>	<p>No workaround exists for this issue.</p>

Process Engineering Tool Integration

Installation

Table 38 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 38. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
In rare cases, PETI cannot be launched from the ABB Start Menu. This is because the required files may not be copied to the local disk during installation. 800xAENP-IN-6000-001	Uninstall and re-install PETI.

Operation

Table 39 lists the issues that may exist and affect operational of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 39. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>After a PETI transfer to 800xA, all Applications in a Control Project are connected to all Controllers in the Control Project instead of specific connections.</p> <p>800xAENP-OL-5110-011</p>	No workaround exists for this issue.
<p>Move/Delete Objects tab for Object Reconciliation functionality under Object Reconciliation Utility does not work.</p> <p>800xAENP-OL-5110-005</p>	No workaround exists for this issue.
<p>Trying to save all missing objects using Tools option in PETI results in an error message stating "Compare aborted, Object not set to an instance of an object".</p> <p>800xAENP-OL-5110-006</p>	No workaround exists for this issue.
<p>Using PETI, while transferring data to 800xA Process Portal A, some objects are not created, but in Transfer window Object was created is displayed. However the objects are not created in Process Portal A/Control Builder.</p> <p>800xAENP-OL-5110-002</p>	No workaround exists for this issue.

Table 39. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If PETI is used to create the Function Diagram with the objects and CreatedByPETI aspect is not added, then new child objects are added to the diagram instead of modifying or renaming the original child objects.</p> <p>800xAENP-OL-5110-003</p>	<p>No workaround exists for this issue.</p>
<p>Function Diagram cannot be allocated to specified control application, on mapping CBAApplication and CBController properties of Allocatable Group aspect of the Function Diagram.</p> <p>800xAENP-OL-5110-004</p>	<p>No workaround exists for this issue.</p>
<p>An exception message appears if Process Engineering Tool Integration is asked to perform a transformation without selecting any transformation.</p> <p>800xAENP-OL-5100-009</p>	<p>Select at least one transformation before performing Transformer in Process Engineering Tool Integration.</p> <p>Also, when an exception occurs, click Continue to ignore the exception and then click Back to exit the Transformer and proceed.</p>
<p>System stops with System out of memory error message, whenever loading a huge (more than 60 MB) CAEX file for the second time.</p> <p>800xAENP-OL-5100-010</p>	<p>Close the application. Reopen it and reload the file.</p>
<p>Unhandled exception error is displayed, if the CAEX Editor is closed using the X (close) button placed in the top right corner of the window.</p> <p>800xAENP-OL-5100-011</p>	<p>Always use the Cancel button to close the CAEX Editor.</p>

Table 39. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Objects created by PETI in Control Structure under Control Network like Controller, IO modules on 800xA side, that are available in the INTools/SPI data source, are not detected as existing objects after running a data compare. They are highlighted in Green indicating as new objects.</p> <p>800xAENP-OL-5140-001</p>	<p>No workaround exists for this issue.</p>

IEC 61850

Configuration

Table 40 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 40. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
VB Graphics faceplates of earlier System versions show ' <i>Needs to be deployed</i> ' after upgrading to SV 6.0.1. 800xAIEC-CN-6000-031	SV 6.0.1 version does not support VB Aspects. It is recommended to migrate VB aspects to PG2 aspects using Migration Tool before upgrading to 6.0.1 system.
After Upgrading from previous System version to 6.0.1, installing and Loading Extension of ABB IEC61850 Substation Operation Library over existing IEC61850 Connect Library in System renders the previous faceplates unusable. This issue is Not applicable for Upgrades done from previous version of 5.1 FP4 or later. 800xAIEC-CN-6000-032	It is required to Re-configure the new faceplates available in ABB IEC61850 Substation Operation Library for proper functioning.

Table 40. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In IEC61850 CET the "stVal" signal quality status shows bad and not turning back to good, after restarting redundant IEC Connectivity server.</p> <p>800xAIEC-CN-6000-033</p>	<p>Refresh by opening the faceplate again from graphics.</p> <p>OR</p> <p>Refresh can also be performed by,</p> <ul style="list-style-type: none"> • opening the faceplate again. • opening the control connection and subscribing the data. • opening online diagnostics and refresh.
<p>After performing Online Upgrade from previous System version, IEC61850 OPC DA service does not come in service state after completing the post install steps.</p> <p>800xAIEC-CN-6000-029</p>	<p>Reset the service provider by clearing the 'Enabled' checkbox of respective Service Provider and verify the option again.</p>
<p>CET IEC61850 OPC Server Not Responding</p> <p>CET IEC61850 OPC Server tool goes to Not Responding State occasionally for Projects with maximum Configuration (4 OPC Instances x 80 IEDs per Instance).</p> <p>800xAIEC-CN-6000-021</p>	<p>None.</p> <p>The CET IEC61850 OPC Server tool does not crash, but comes out from Not Responding to a Normal State within short time.</p> <p>To overcome this, split the maximum CET Project configuration into multiple CET projects, each with only 1 or 2 OPC instances.</p>
<p>Sometimes, launching CET by double- clicking CET icon leads to PCMFrame error.</p> <p>800xAIEC-CN-6000-023</p>	<p>Right-click on CET Icon and from the context Menu select 'Run As Administrator'.</p>

Table 40. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>IEC61850 Uploader hangs while uploading scd-file having multiple subnetworks successively.</p> <p>800xAIEC-CN-5140-002</p>	<p>After uploading one subnetwork, close and reopen the Plant Explorer Workplace and then select the IEC61850 Uploader Aspect to continue with other Subnetwork.</p> <p>Repeat this step until all the Subnetworks are uploaded.</p>
<p>IEC 61850 CET OPC Server does not generate condition events for Analog Measurement Monitoring of High and Low Levels.</p> <p>Hence High and Low Level Alarms are Not available in 800xA Alarm List.</p> <p>800xAIEC-CN-5140-005</p>	<p>Analog Measurement Monitoring of High and Low Levels are available in 800xA Event List.</p>

Table 40. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>PPA Event collector service provider is not able to resolve progID correctly.</p> <p>IEC61850 Event category inflation floods OperateITData folder and slows down system.</p> <p>Alarm categories selection in Alarm and Event list Configuration Aspect is found different in Primary Aspect Server and Secondary Aspect Server.</p> <p>800xAIEC-CN-5023-011</p>	<p>Check the Alarm Collection Definition in Library Structure. Check the following in Alarm & Event > alarm collection Definitions > IEC 61850 OPC AE Server > Alarm Collection Definition:</p> <p>Under IEC61850 OPC AE Instance[x] (where x between 1 -16), Category Group must be “Un-Categorized” and Category Name must be “Condition Discrete Event IEC61850 OPC AE Server Instance[x]” (where x between 1 -16, x should match the instance number).</p> <p>Otherwise, in the Alarm Collection Definition, delete the IEC61850 OPC AE Instance[x] that has incorrect Category Group and Category Name.</p> <p>Go to Service Structure, delete the respective Event Collector Service Group and Service Provider and recreate them.</p> <p>In Plant Explorer Event Collector, while configuring for the first time, select ABB OPC Server for 800xA instead of OPC server instance from Description of AE Server drop-down list. Click Apply and then check if the correct OPC server ProgID is displayed in the ProgID field (ProgID field should NOT be ABB.OPCEventServer.1 but reflect OPC server instance).</p> <p>If not, select ABB OPC AE Server for 800xA again and apply configuration. Click Apply and again check if the correct OPC server ProgID is displayed in the ProgID field.</p>

Table 40. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>IEC 61850 CET OPC Server displays an error “Project conversion tool can't access the project: Object reference not set to an instance of an Object” while opening a project exported from earlier CET version. This is observed on rare occasions due to inconsistency in exported project</p> <p>800xAIEC-CN-5021-001</p>	<ol style="list-style-type: none"> 1. Create a new project in CET and add 'Computer Node' and 'OPC Server' objects. 2. Perform SCL Import operation on OPC Server object, providing the project xml file located in <code>C:\PCMDatabases\ OPC_61850\ OPCSCLEXPOT\ <CET_Proj>\xxxx.xml</code> 3. After SCL Import is complete, enter the prog IDs for OPC DA and AE instances in OPC server Object properties and perform Update/Reload. <p>NOTE: For the second OPC server instance applicable in same CET project, respective xml files will be available in the above path that can be imported additionally.</p>
<p>Sometimes CET Tool throws <i>Server Execution Failed</i> error while performing IEC61850 OPC Server Reload operation. Thereby it is not able to load the IEC61850 OPC Server with new CET configuration.</p> <p>800xAIEC-CN-5140-019</p>	<p>This issue is suspected to occur when the OPC Restart time exceeds the DCOM Transaction timeout after which CET throws the error message. Reason might be due to size of the configuration or overall performance of the Node.</p> <p>Follow the 800xA recommended Server hardware to avoid the occurrence of issue.</p>

Operation

Table 41 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 41. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Select Before Operate command operation from Faceplate to IED through IEC 61850 OPC Server, does not work during Connectivity Server redundancy switch over. 800xAIEC-OL-5140-003	No workaround exists for this issue.
IEC 61850 OPC Server internal events for Select Before Operate Commands are not updated in PPA event list. 800xAIEC-OL-5140-004	No workaround exists for this issue. This problem occurs when Select Before Operate command is being executed via OPC DA server in one Connectivity Server machine while the Event collector service is active in the redundant Connectivity Server machine. This is because for redundant IEC61850 OPC Servers, Internal events of primary OPC Server instance are not updated into redundant OPC server due to which the active event collector service does not get the events to provide to PPA Event list. Affinity Configuration can be used to resolve this problem. For details on configuring Affinity, refer to <i>System 800xA Post Installation (3BUA000156*)</i> Manual.

Table 41. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
During redundancy switchover, if operator sends the command to IED, command will not go to the field devices such as IED,CBR,GEN,PTR and it will not send any feedback to operator workplace. Also, a data loss is observed in control connection, trend etc., during redundancy switchover. 800xAIEC-OL-5020-0001	When the redundancy switchover is going on, the graphic display will show red cross mark (Uncertain or Bad status). Wait until the red cross mark disappears and the graphic display becomes normal.

Miscellaneous

Table 42 list the problems or issues known to exist with the current release that do not fit into one of the other categories. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 42. Miscellaneous Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Consistency check on functional structure throws error. Running Consistency check tool on functional structure throws error “Could not find data source structure key” for substation level, Bay level and voltage level objects. 800xAIEC-MS-5100-001	Data source is not mapped for objects substation, Bay and voltage as they are not added into control structure while upload. Errors on those objects to be ignored as no undesirable impact on backup or restore.

Device Management FOUNDATION Fieldbus

Installation

Table 43 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 43. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Upgrade fails for systems having only PG2 graphics</p> <p>If Foundation FIELDBUS is used in a 5.1 system (all versions) and if Visual Basic Graphics or Faceplates are not used, the system may contain Visual Basic related aspects. A Manual Upgrade to 6.0 will fail.</p> <p>800xDMF-IN-5100-023</p>	<p>For Manual Upgrade contact your local ABB support.</p>
<p>Fieldbus Builder FF setup does not replace all system files.</p> <p>After uninstall an old Fieldbus Builder FF version the files dgmfbbc.dll, dgmopcc.dll and f2kopcda.dll in the windows\system32 folder may be left.</p> <p>The files will not be overwritten by a new installation.</p> <p>As a consequence the windows performance monitor and other diagnostic tools may not work as expected.</p> <p>800xDMF-IN-5010-007</p>	<p>Before installing the Fieldbus Builder FF 5.0 SP2 the following files must be removed manually from the Windows\System32 folder:</p> <ul style="list-style-type: none">• dgmfbbc.dll• dgmopcc.dll• f2kopcda.dll

Table 43. Installation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Loss of OPC DA communication</p> <p>This may occur after install/ restore FF Device Object types at</p> <ul style="list-style-type: none"> • Faceplates (values are not further updated) • Trends and logs are not updated • Control Connection Aspect shows “addItem error” when live values are displayed <p>800xDMF-IN-5100-004</p>	<p>After installation/ restoration of FF Device Object Types immediately upload the library.</p>
<p>Procedure for updating from 3.1 to 5.1 FP2 and 4.1 to 5.1 FP2</p> <p>Restoring data from a backup stored in 3.1 or 4.1 to 5.1 FP2 may fail. FF relevant data are not restored.</p> <p>800xADMF-IN-5120-001</p>	<p>Restore the system in 5.1 Revision A and then update the system to 5.1 FP2.</p>
<p>Message box during installation</p> <p>During installation a message box ‘The following Application should be closed before continuing the install: WMI Provider Host (Process Id: xxxx)’ is shown, if FF relevant performance monitor counter are used in applications.</p> <p>800xADMF-IN-5120-006</p>	<p>To continue without forcing a reboot, the Windows Management Instrumentation service can be restarted. This terminates the displayed process and starts a new one.</p> <p>The installation can be continued by pressing the “Retry” button.</p> <p>Alternatively the “Ignore” button can be pressed. In this case the installation continues, but a reboot is required afterwards.</p>

Table 43. Installation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>After a former primary aspect server has been reconnected to the system, the FF distribution servers may not be able to replicate the new data from the secondary aspect server.</p> <p>In this case the file versions for some files in the FFDSD status viewer ([Service Structure]FFDataStorageAndDistribution/Basic Service Group, Special Configuration tab) differ.</p> <p>In some cases this will also cause an error "The specified file could not be found on the Distribution server" during opening of a HSE subnet.</p> <p>800xDMF-IN-5100-002</p>	<p>Restart the Distribution server FFDSD:</p> <p>In the workplace, navigate to [Service Structure]FFDataStorageAndDistribution/Basic Service Group.</p> <p>Clear the selection in "Enabled" check box and click "Apply". Now select the "Enabled" check box again and click "Apply".</p>
<p>Installation failed for Fieldbus Builder FF System Extension</p> <p>Sometimes the installation of the Fieldbus builder FF System Extension fails during Deploy.</p> <p>800xDMF-IN-6010-002</p>	<p>In this case wait 10 to 20 seconds and press then the Retry button in the Deploy dialog.</p>

Configuration

Table 44 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 44. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
H1 link not updated in Asset Monitor A newly inserted H1 link is not detected by the Linking Device Asset Monitor. The H1 link stays in the <i>Not configured</i> state. 800xADMF-CN-6000-002	Reload the Asset Monitor in the Asset Optimization server.
LD800HSE device added in the FBB FF is shown as HSE Super type object in Plant Explorer after upload, without an operator relevant aspect like faceplate. Reason: The user adding the linking device in FBB FF does not have <i>Operator Configure</i> permission. 800xADMF-CN-6000-001	All users working with FBB FF configuration shall have <i>Configure</i> and <i>Operator Configure</i> permissions.
In seldom cases the error message 'The specified file could not be found on the Distribution server' appears during FF upload or open a FF project. In this case the file is damaged. 800xADMF-CN-6000-005	Contact your local ABB support to repair the file.

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>No OPC data after H1 device assignment OPC data may be in bad status for H1 device blocks, after H1 device assignment and H1 link download, based on the following conditions:</p> <ul style="list-style-type: none"> • The H1 device has a valid bus address different from the configured address. • The <i>Device Assignment Mode</i> is switched to <i>Online</i>. • No changes are done between H1 device assignment and H1 link download. <p>800xADMF-CN-6000-003</p>	<p>Check the whole project and download the H1 link again.</p>
<p>Standard Dialog Editors are not available User defined dialogs are not available for imported Device Object Types.</p> <p>800xADMF-CN-5102-002</p>	<p>Import user Dialogs manually from Device Object type folder typically found at:</p> <pre>\Program Files\ABB Industrial IT\Engineer IT\ABB Device Integration Library\FF Device Integration Library\CFF\ST FF Dialogs*.dge</pre>
<p>HSE Project damaged after CUT and PASTE of HSE objects within Fieldbus Builder FF.</p> <p>800xADMF-CN-5101-007</p>	<p>Use COPY, PASTE, DELETE instead of CUT and PASTE.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Inserting OPC server objects simultaneously in different FBB instances will lead to a non repairable project database.</p> <p>The conflict resolution dialog may show that a redundant OPC server is already created.</p> <p>800xDMF-CN-5100-001</p>	<p>Do not insert OPC server objects simultaneously in different FBB instances.</p> <p>In case the conflict resolution dialog occurs anyway do not rename the OPC server within the conflict resolution dialog. Instead cancel the action, delete the second OPC server, and delete the used tag out of the tag list.</p> <p>CAUTION: It is mandatory to follow the above mentioned workflow, otherwise it leads to non repairable project database.</p>
<p>If two exports are running simultaneously which export the same object (Example: the library as a dependency), the first export will be successful, whereas the second export fails.</p> <p>800xDMF-CN-5100-005</p>	<p>Export parts sequentially.</p>
<p>Time out during initialization of H1 link while pre-commissioning or activating the H1 Link.</p> <p>800xDMF-CN-5100-006</p>	<p>When adding new pre-configured devices to existing and running H1 Links, PD Tags and node addresses shall not conflict with already connected devices.</p>
<p>Afw files from earlier versions (SV3.1 and SV4.0/4.1) cannot be imported correctly into SV5.1.</p> <p>800xDMF-CN-5100-007</p>	<p>The FBBFF objects can be exported and imported by using HWM files (Block import).</p>
<p>Occasionally, a long idle time is observed when an HSE subnet is saved or uploaded in case the client notes is not available.</p> <p>800xDMF-CN-5100-008</p>	<p>Rearrange nodes in the <i>Node Administration Structure</i> so that the nodes which are not always available occur after all OPC server nodes.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>The error output of the FFHSEWrite function block indicates also a True if a warning occurs (error code starts with "2").</p> <p>800xDMF-CN-5100-011</p>	<p>Adapt your Control Builder M application accordingly.</p>
<p>After import of a library with duplicate device types referenced device types are missing at the device instances.</p> <p>800xDMF-CN-5100-013</p>	<p>Delete device type and import the correct one again.</p>
<p>Communication is out of cycle</p> <p>The schedule calculates the communication (default values for gaps) at the end of the second FBAD cycle.</p> <p>Adding a second signal to an FBAD may produce a plausible error:</p> <p><i>... communication is out of cycle, with xx% free communication time.</i></p> <p>800xDMF-CN-5100-014</p>	<p>Small modification in the gap timings will allow a successful schedule generation</p> <p>For example,</p> <p>Typ C/S PDU delay: 72 -> 74</p> <p>Typ C/S PDU duration: 40 -> 38</p>
<p>Rosemount Device assignment is not successful if additional blocks are instantiated.</p> <p>800xDMF-CN-5100-017</p>	<p>Do not add instantiable blocks in Rosemount devices.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>After deleting a H1 link it may happen that the linking device is unchecked during save.</p> <p>800xDMF-CN-5100-018</p>	<ul style="list-style-type: none"> • Export the linking device including sub nodes with PPA Export/Import tool • Delete the LD in FBB • Recheck the subnet • Reconcile the OPC Server FF • Import the linking device with PPA Export/Import tool • Pre-commission and download the devices
<p>In Service Structure, it is not possible to get the 'Event Collector Service Provider' of an HSE Subnet into 'Service'.</p> <p>800xDMF-CN-5100-019</p>	<p>Delete the entire 'Service Group' of the affected HSE subnet in the 'Event Collector Service'.</p> <p>Later run an 'Upload' of the affected subnet in the Control Structure. The service provider should now work as desired.</p>
<p>Change Type of FF object instances may lead to upload errors in very rare cases.</p> <p>800xDMF-CN-5100-020</p>	<p>Do not exchange FF object instances through "Change Type".</p>
<p>Moving a CI860 object in a tree or detail view of the FBB FF will change the IP address of the object. Due to the changed IP address, system will enforce a reboot of CI860 during the next download from Control Builder.</p> <p>800xADMF-CN-5103-002</p>	<p>Avoid moving of CI860 objects in the FBB FF. Before checking the project and after moving a CI860 object, retain the original IP address.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Restrictions in VEGAPULS devices</p> <p>Not all menus from the Device Description are usable within DD menus part of block properties dialog.</p> <p>Menus that are not working:</p> <ul style="list-style-type: none"> • Diagnostics/Echo Curve: Upload and display of Echo, False signal suppression, setup curves. • Setting of False signal suppression. • Reset (partially), only major options work. <p>800xADMF-CN-5102-004</p>	<p>Use Advanced > Properties, in Properties Dialog or device local functionality to configure these items.</p>
<p>Download Arrow after Upload of Alarm Limit</p> <p>Checking the HSE subnet after uploading online changed alarm limits will show download arrows at OPC server FF and H1 link indicating that the OPC server FF has to be loaded.</p> <p>800xADMF-CN-5120-022</p>	<p>Perform an incremental download of the marked H1 link in order to download its missing OPC server part.</p>
<p>Full download of H1 link</p> <p>A H1 link may require a full download if the device type reader is running during the start of online dialog.</p> <p>800xADMF-CN-5120-002</p>	<p>Start the online dialog after the device type reader is switched to standby mode.</p> <p>It is a best practice to disable the device type reader after the pre-commissioning phase is finished.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>FF object merge instead of exchange during import or deploy of FF configuration parts</p> <p>In cases where an import or deploy should replace FF configuration parts, it may happen that the replaced parts are not removed.</p> <p>800xADMF-CN-5120-005</p>	<p>Before importing or deploying FF configuration parts, the parts that would be replaced should be deleted.</p>
<p>Online version check not finished</p> <p>Occasionally it may happen that the online version check is not complete due to an outstanding response from a H1 device, in this case the progress indicator for the online version check will be frozen.</p> <p>800xADMF-CN-5120-010</p>	<p>Close the progress indicator dialog box manually after it is inactive for 90 sec.</p>
<p>After restore it may happen that a plausibility check will not eliminate all error indicators.</p> <p>800xADMF-CN-5101-008</p>	<p>Reserve the whole subnet. Check the project manually multiple times until no more error indicators occur. Start download of Control Builder M only after subnet has been uploaded.</p>
<p>After function blocks have been deleted, the version check within the Online dialog shows that the config has changed. The following download action runs without error, but the download arrow icon on the link in the hardware tree still remains. A new online version check still reports that the config has changed.</p> <p>800xD MF-CN-5100-002</p>	<p>Perform a full download.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Check after import fails with error message: "The signal <signal name> is not a FF signal".</p> <p>800xDMF-CN-5100-004</p>	<p>Open corresponding FBAD, select the red indicated signals and click Enter. Occasionally the signal properties dialog may occur and needs to be confirmed. The former red marked signals now appear in black color.</p>
<p>FF Event collector service is in synchronize state</p> <p>The Alarm Server configuration in the Event collector group is not updated by the Upload for an existing Event collector group after a change of the Subnet Id.</p> <p>This can happen after:</p> <ul style="list-style-type: none"> • Upgrade from 5.0 SP2 Rev E • Manual change of the Subnet Id <p>Important</p> <p>800xADMF-CN-6010-001</p>	<p>Delete the FF Event collector group in the Service structure and start the upload of the affected HSE subnet.</p>
Commissioning	
<p>Moving a device in the tree view of the FF Object Editor, also inside a single tree, forces a full download of this device.</p> <p>800xDMF-CN-4100-015</p>	<p>Avoid moving of devices in the tree view for optical reasons.</p>
<p>Factory Reset Not Indicated in Fieldbus Builder FF</p> <p>If a device is reset using the RESTART parameter in the resource block, this has no influence on the displayed assignment and download state in the tree structure of the FF Object Editor.</p> <p>800xDMF-CN-4100-017</p>	<p>Use the context menu of the device to initiate a factory reset.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Restarting an H1 device by writing the RESTART parameter in the Resource Block parameter dialog may time out with an error after 60 seconds.</p> <p>800xDMF-CN-4100-019</p>	<p>For restarting an H1 device select the <i>Restart device</i> context menu entry at the H1 Device object.</p>
<p>Assignment of a pre-configured H1 device may fail in the following cases:</p> <p>Case 1: Assignment of an H1 device where the tag name and node address already match, may fail in rare cases with the message 'Error writing FBAP Server VCR'</p> <p>Case 2: Assignment of an H1 device which supports instantiable blocks and which has been pre-configured with a 3rd party configuration tool supporting configuration of instantiable blocks, may fail.</p> <p>Case 3: Assignment of an H1 device with Softing stack version < 2.11 may fail, if the device was configured with a 3rd party configuration tool or in another project before and Publisher/Subscriber VCRs were active in the device. The device assignment does not finish.</p> <p>800xDMF-CN-4100-020</p>	<p>Workaround for Case 1: Perform a Clear Address and then repeat the device assignment.</p> <p>Workaround for Case 2: Perform a factory reset of the H1 device using hardware means described in the user manual of the device. Then repeat the device assignment</p> <p>Workaround for Case 3: Power down and power up the device. Then repeat the device assignment. Alternatively perform a factory reset and then repeat the device assignment.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>OPC Server interfere Fieldbus Builder FF download</p> <p>During download it may occasionally happen that the OPC Server interfere FBB FF on writing to FBAP. In some cases this may prevent a successful download.</p> <p>800xDMF-CN-5010-002</p>	<p>Retry download or retry download with a different download scope.</p>
<p>Device fails to download and connect</p> <p>Function Block Application Process Virtual Field Device (FBAP VFD) access is not possible after download by inconsistent code generation.</p> <p>This shows up with capabilities file which include a section like [NM VCR Usage 2] FasDllResidualActivitySupported=RESIDUAL)</p> <p>800xDMF-CN-5010-005</p>	<p>Patch the capabilities file: Remove the entry on all but the F8 server VCR or Replace RESIDUAL with NORESIDUAL.</p>
<p>CI860 will reboot after change of IP configuration (IP address, HSE Default Gateway or HSE Subnet mask)</p> <ul style="list-style-type: none"> - Immediately if client/server signals are already configured or - Unexpectedly at a later time during downloading of any signal configuration changes. <p>800xADMf-CN-5101-006</p>	<p>Avoid changing the IP configuration of CI860. If it cannot be avoided, force an immediate download by any signal configuration change.</p>

Table 44. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
System and Plant Explorer Handling	
<p>No Online Access to HSE Subnet after Disconnecting HSE Subnet from One Node of a Redundant Pair of Connectivity Servers FF</p> <p>Disconnecting the HSE Subnet from one node of a pair of redundant Connectivity Servers FF may disable online access of Fieldbus Builder FF to the HSE Subnet. Thus communication between Fieldbus Builder FF and the HSE Subnet is interrupted for the time of disconnection.</p> <p>800xDMF-CN-5000-004</p>	<p>For accessing the HSE Subnet, Fieldbus Builder FF uses the first available Connectivity Server FF with DMS connection regardless of the HSE connection state of this node.</p> <p>Workaround:</p> <p>Reconnect HSE Subnet to Connectivity Server FF.</p>
Bulk Data Manager	
<p>It is not possible to create FF objects and parameterize them in the same step with Bulk Data Manager (BDM). A second save creates a BDM error sheet.</p> <p>800xDMF-CN-5100-009</p>	<p>After first save, read the just imported FF objects into the same Excel sheet. The original specified values are overwritten. Re-enter the correct values and save the BDM sheet again.</p> <p>Or</p> <p>Create separate BDM sheets: one for object creation and one for parameterization.</p>

Operation

Table 45 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 45. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Crash of OPC server in Trace Module The OPC servers FF may crash in the Trace Module after a loop in the Ethernet network creates a high broadcast load. 800xADMF-OL-5101-016	Avoid loops in the Ethernet network.
On cancelling a download the OPC server FF displays No Connection On cancelling a download, the OPC server FF may display No Connection in the tree view. 800xADMF-OL-5120-009	Reboot the connectivity server or perform the following steps: <ol style="list-style-type: none"> 1. Close all Fieldbus Builder FF applications on all the nodes. 2. In the Service Structure of the Workplace stop both OPC service provider (Event Collector and OPCDA) of the Subnet. 3. Restart the ABB FFNameserver in Windows Services (Use Task Manager). 4. Enable Service providers again in Service Structure that is stopped in the Step 2.

Table 45. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Fieldbus Builder FF Crashes in Diagnostic View</p> <p>Fieldbus Builder FF crashes after the following sequence:</p> <ul style="list-style-type: none"> • Diagnostic View is selected. • OPC Server Object or HSE Host Object (CI860) is selected in Tree View. • Switched back in Tree View to Object other than those before (HSE Subnet, LD or H1 link). • Mouse click in Device List View (anywhere). <p>800xADMF-OL-5120-012</p>	<p>Do not select OPC Server Object or HSE Host Object (CI860) in Tree View when the Diagnostic View is displayed.</p> <p>Select the Device List Tab before selecting those objects.</p>
<p>The FBBFF shuts down while changing to commissioning mode, if duplicate IP addresses are used on the HSE network.</p> <p>800xADMF-OL-5130-003</p>	<p>Avoid duplicate IP addresses on the HSE network.</p>
<p>Frozen or Bad values in Faceplates, Graphics, and Trends</p> <p>Properties such as OPC Control Connection/OPC Control Connection.xxxxx from FF objects used in BDM sheets may lead to frozen or bad OPC values in faceplates, graphics, and trends.</p> <p>800xADMF-OL-5103-001</p>	<p>Do not use properties such as OPC Control Connection/OPC Control Connection.xxxxx from FF objects in BDM sheets if plant is in operation.</p>

Device Management PROFIBUS and HART

Administration

Table 46 lists the issues that may exist and affect administration at time of release including user, node, and service structure related problems. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 46. Administration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Re-authentication does not work for Device Management and Fieldbus Management. The Re-Authentication window will be shown when HART device objects are created or deleted and Re-Authentication is enabled. 800xDPH-AD-5000-001	Re-Authentication for HART and PROFIBUS device type objects has been disabled in this version by default. Do not enable it.
Asset Monitor for ABB device type objects show an error in top most line. 800xDPH-AD-5000-006	Even if the Asset Monitor shows an error within the topmost line, it works correctly regarding the mandatory parameters and conditions from the device. The error is forced by optional device parameters which are not used by the Asset Monitor.
After a firmware download to an AC 800M controller the OPC Server PROFIBUS/HART will sometimes stop operation. 800xADPH-AD-5020-011	After a firmware download to an AC800M controller is performed reboot the corresponding Connectivity Server when OPC Server PROFIBUS/HART runs at this node. This affects only OPC Server PROFIBUS/HART which are connected to AC 800M controllers.

Table 46. Administration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
When PROFIBUS/HART OPC server is configured in redundancy it might happen that for sometime (Around 10 minutes) both the OPC servers are activated during runtime. This will cause more number of connection to controller. As a result, connection to some devices might be aborted. 800xADPH-AD-5020-012	Increase the number of Tool Routing connection in controller from default 20 to a higher number 30. No user action is required when OPC servers are running in parallel. System behavior comes back to normal after sometime (about 10 minutes).

Configuration

Table 47 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 47. Configuration Issues for Device Management PROFIBUS & HART

Issue	Workarounds, Clarifications, and Helpful Hints
Soft Alarm Service goes in to the error state after system restart if it is launching DeviceManagementServer process while startup. 800xDPH-CN-5100-037	Open the Plant Explorer Workplace on Aspect Server node for which Soft Alarm Service is configured. Disable and Enable the Soft Alarm Service again. Keep the Plant Explorer Workplace open till Soft Alarm Service goes to service state.
If control entity is reserved by any other user than the logged in user, ABB third party DTMs does not show any DTM view. 800xDPH-CN-5100-017	This is DTM specific Implementation. No workaround exists for this issue.

Table 47. Configuration Issues for Device Management PROFIBUS & HART (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>When DTM is opened or accessed by right-clicking on Device instance in Control Structure without reserving the entity, the same DTM cannot be accessed again with user role 'Planning Engineer' after reserving the entity.</p> <p>800xDPH-CN-5100-029</p>	<p>Close and reopen the Plant Explorer Workplace and then access the DTM with entity reserved.</p> <p>or</p> <p>Before accessing the DTM, release the Control project from Controller level and reserve it again.</p>
<p>In Basic HART DTM, company name will be shown as blank if connected HART 7 device has 2 byte manufacturer ID.</p> <p>800xADPH-CN-5100-014</p>	<p>No workaround exists for this issue.</p>
<p>Deploy while branch is online at the same node is not possible</p> <p>A Deploy while fieldbus subtree is online at the same node generates an error message: "This action is not possible..... is online".</p> <p>800xDPH-CN-5020-005</p>	<p>End running online operation and try Deploy again.</p>

Table 47. Configuration Issues for Device Management PROFIBUS & HART (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Inconsistent data after re-configuration of the Fieldbus Builder PH OPC.</p> <p>After re-configuration of the Fieldbus Builder PH OPC the server deliver inconsistent data, e.g. wrong quality state if the time stamp of the server topology file is not equal or newer than the re-configuration accomplishing time.</p> <p>The re-configuration accomplishing time is displayed in the Fieldbus Management dialog and the topology file "TopologyImExport.xml" is saved in the folder "C:\Program Files(x86)\ABB Industrial IT\Engineer IT\FieldbusBuilder\OPCServerConfig".</p> <p>800xDPH-CN-5020-010</p>	<p>After re-configuration (e.g. changes in the topology) of the Fieldbus Builder PH OPC perform a restart of the OPC Server:</p> <ol style="list-style-type: none"> 1. Disable the Service Provider for the Fieldbus Builder PH OPC in the Service Structure. Note that shutdown of the Fieldbus Builder PH OPC takes time (3-4 minutes) 2. Ensure that the following processes are terminated: <ul style="list-style-type: none"> – abbfktopc.exe – abbsrvcc800xA.exe 3. After that enable the Service Provider for the Fieldbus Builder PH OPC in the Service Structure again.
<p>Last restore information (Date and timestamp) in FBB Filesync Helper aspect is not available.</p> <p>800xADPH-CN-5100-002</p>	<p>No impact on functionality. Check configuration wizard log file for this information.</p>

Table 47. Configuration Issues for Device Management PROFIBUS & HART (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If the system is upgraded to later versions, the Calibration Event List aspect may be available on Control Network object instance and ABB Generic HART Transmitter object instances in Control Structure. If DMS Calibration Connect System Extension is not loaded, then this aspect will remain unconfigured.</p> <p>From 800xA system version 5.1 onwards, due to unconfigured calibration event list aspect, following issues can occur:</p> <ol style="list-style-type: none"> 1. If such aspect is present in any object, then it will not be possible to browse 800xA OPC server (AfwOpcDaSurrogate). For more information, refer to <i>Product Bulletin 3BSE066045</i>. 2. Consistency checker tool will also report the error about unconfigured calibration event list aspect. 3. When user clicks on Calibration Event List aspect, it opens with following message: "Could not connect to the configuration aspect. Please look at the configuration" However, user will not find any configuration to look at. <p>800xADPH-CN-5100-005</p>	<p>If DMS Calibration Connect is not in use, delete Calibration Event List aspect from Control Network object instance and ABB Generic HART transmitter object instance in Control Structure.</p>

Table 47. Configuration Issues for Device Management PROFIBUS & HART (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Replacing IO module in Control Builder M by using Replace Unit menu option cause the problem such as Device Management aspect referring to old IO Module DTM or Invalid topology data. DTM out of order? message in Fieldbus Management aspect of the replaced IO module.</p> <p>800xDPH-CN-5100-031</p>	<p>Delete the IO module instance and Insert Unit as required.</p>
<p>Selecting Documentation menu for Generic HART DTM does not open user manual. This problem occurs only on the system upgraded from any 800xA System version on 32 bit operating system to 64 bit operating system with device instance created prior to system upgrade.</p> <p>800xDPH-CN-5100-021</p>	<p>Apply the below mentioned workaround to all the device instances to resolve the problem.</p> <ol style="list-style-type: none"> 1. Select Configuration user interface from Device Management aspect or from Device Functions menu for a device instance. 2. In Configuration user interface, select the Documentation tab. 3. Browse and select the correct path for Documentation Link as (C:\Program Files(x86)\ABB Industrial IT\Engineer IT\DTM\Basic HART DTM\Doc\3BDD011939-510_A_en_Device_Management_Basic_HART_DTM_5.2.pdf) 4. Click OK or Apply to save the changes.
<p>In Control Builder M it is possible to move already placed modules from one slot to another slot, but the opened identification view of S800 DTM is not updated. It still shows the old position.</p> <p>800xDPH-CN-5000-012</p>	<p>Close and reopen the S800 DTM user interface.</p>

Table 47. Configuration Issues for Device Management PROFIBUS & HART (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Two Objects with the same name under HART Multiplexer Subnet do not result in errors, but may lead to identification problems. Therefore it is recommended to use unique names.</p> <p>800xDPH-CN-5000-016</p>	<p>Double names do not result in errors, but may lead to identification problems. Therefore use unique names.</p>
<p>When clicking on 'Multiplexer Assignment' in the HART Multiplexer DTM of HART Multiplexer Connect the expected DTM Windows may not appear.</p> <p>800xDPH-CN-5000-038</p>	<p>The window for the Assignment is appearing in the Windows Taskbar (background).</p>
<p>Wireless HART solution for wired HART positioner is not available.</p> <p>800xDPH-CN-5100-004</p>	<p>Currently, the solution is available only for Wired HART Transmitters and Wireless HART Devices.</p>
<p>Event List shows continuous File Set Distribution (FSD) events with a message as 'InvalidItem' for the Fileset representing the file that belong to Fieldbus Builder PH. The FSD event has a description as below: "Fileset is invalid. Reason: Filename already exists. Fieldbus Builder PH Cache\.....".</p> <p>800xDPH-CN-5100-036</p>	<p>For workaround and more information, please contact the ABB technical support.</p>

Operation

Table 48 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 48. General Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Some times during upload operations for HART 7 devices using Basic HART DTM, "9 - Invalid Selection" error message may appear and upload may fail. 800xDPH-OL-5100-013	<ol style="list-style-type: none"> 1. Open Basic HART DTM. 2. In the Observation UI, change the variable codes not supported by the device in the default list under Device Variable with Status > Variable code. 3. Press Read. 4. Perform the upload operation.
In the Basic HART DTM Wireless Configuration user interface, Join status field shows Join status code instead of Join status description. 800xDPH-OL-5100-014	Refer to Flow of Join status Information area in the Basic HART DTM Wireless Configuration user interface.
The Device Type Manager (DTM) for ABB Instruments (except S800 IO, S900 IO and Basic HART DTM) does not up-/download the complete parameter data-set, if the up-/download is started via Fieldbus Management Aspect. 800xDPH-OL-5000-019	Complete up-/download of device parameter data-set must be initiated directly in the specific DTM. Open the DTM of the specific device, change the parameter (if applicable) and start download/upload from the DTM menu.
Disable Communication via Fieldbus Management aspect while an online DTM window is still open may result in failed release communication call. 800xADPH-OL-5000-035	Close all open online DTM windows before disabling the communication via Fieldbus management aspect.

Table 48. General Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If a project is taken over from another node or the Load-Evaluate-Go action is performed, then several communication related error messages (for example, ..communication failed..) are displayed.</p> <p>800xDPH-OL-5010-001</p>	<p>Take Over a project from another node or Load-Evaluate-Go should only performed if the Fieldbus Management is in <i>Communication disabled</i> mode (offline).</p>
<p>The generic HART Asset Monitor loaded in the AO Server could show an inconsistency condition for <i>Configuration Changed</i>. The <i>Configuration Changed</i> condition in the generic HART Asset Monitor is active, but there was no change in the device configuration via DTM or handheld. The <i>Configuration Changed</i> condition is not reset, if the device and the instance data set have been synchronized.</p> <p>800xDPH-OL-5010-003</p>	<p>Open Plant Explorer Workplace Aspect System Structure with system administrator rights. Navigate to <i>Asset Monitoring, Aspect system -> Asset Monitors, Aspect type. -> HART Generic Device Asset Monitor, Aspect category</i>. Select the aspect "HART Generic Device Asset Monitor". Open the tab "Input Records" and set for all optional input records in the column "Data Source Aspect" the entry to "None". Click Apply to confirm the changes.</p>
<p>Control structure out of sync message while working with DTMs specially when using Wireless HART or HART Multiplexer connect.</p> <p>800xADPH-OL-5100-001</p>	<p>Close and re-open 800xA workplace (before re-opening 800xA workplace, ensure that the Device Management process is closed).</p>
<p>Sometimes there may be an entry 'Invalid item ID' in Eventlist after performing operations on Fieldbus Management aspect for example, Upload or Download.</p> <p>800xADPH-OL-5100-009</p>	<p>Ignore the messages as they have no impact on Fieldbus Builder PH functionality.</p>

Table 48. General Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>It is observed that if Online DTM GUI is kept open for 10 - 12 hours, then <i>DeviceManagementServer</i> process crashes.</p> <p>800xADPH-OL-5100-021</p>	<p>It is recommended to close the DTM GUI after usage.</p> <p>If this issue occurs, close and reopen the Plant Explorer Workplace.</p>
<p>If a HART device fails during a download the progress bar does not stop, and no retry of the download, and no connection to the Device is possible.</p> <p>800xDPH-OL-5000-023</p>	<p>The user must cancel the download function manually (in the Fieldbus Management View select the context menu "Cancel Download").</p>
<p>In case Wireless HART Gateway is power recycled, all the adapters may not join the network afterwards.</p> <p>800xDPH-OL-5100-003</p>	<p>Power recycle the adapters which do not join the network.</p>
<p>Sometimes two wired HART devices may appear under one Adapter in Gateway Webpage. This might happen after replacing the wired device under the adapter or moving it to another adapter.</p> <p>800xDPH-OL-5100-004</p>	<p>Delete the devices in Gateway Webserver which are not physically connected to the Wireless HART Adapter.</p>

Table 48. General Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Following general limitations of Pepperl + Fuchs Wireless HART Gateway should be considered:</p> <ol style="list-style-type: none"> 1. Gateway communication via RS485 serial interface not supported. This means MODBUS RTU /Binary HART over RS485 connectivity is not possible. 2. Gateway webserver is supported from Internet Explorer version 8.0 onwards. 3. DHCP/DNS client functionality will not be supported. Only manual configuration of Gateway IP address is supported. <p>800xDPH-OL-5100-013</p>	<p>Refer <i>Device_Management PROFIBUS and HART Configuration (3BDD011934*)</i> manual for wireless Hart configuration in 800xA system.</p>
<p>Windows Event list is filled by the GPB DTM.</p> <p>800xDPH-OL-5100-012</p>	<p>The DTM Events will fill the information Event. Ignore the entries or filter them out.</p>
<p>All the Datafields in Identification window of CI920 DTM are not updated in one cycle of communication if CI920 Firmware Version 1.4.2 is used.</p> <p>800xDPH-OL-5100-006</p>	<p>Press Reread in Identification Window.</p>

Table 48. General Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>When Lower/Upper Limit values and Range Units are changed from Configuration window the values are not getting updated in the Identification window. In case of multinode operation changes made in Comments text box are also not getting updated.</p> <p>800xDPH-OL-5100-007</p>	<p>Download the data and then perform an Upload operation to view the changed values in Identification window.</p>
<p>When a download operation is performed with parameter fields changed, the configuration change counter value in online parameterize Window should increase by 1 with each download operation. But the current field shows some negative value, which changes on each download.</p> <p>800xDPH-OL-5100-008</p>	<p>Changes in configuration counter count can be observed when download operation is done. Change in value implies that some download operation has been done.</p>
<p>While working with HART Multiplexer DTMs, the List of Multiplexer User interface is not automatically updated if there is a disturbance. Eg.COM port is disconnected.</p> <p>800xDPH-OL-5100-011</p>	<p>This problem is with update of DTM User interface and refreshing the Multiplexer list will show the correct status of Multiplexers. However there is no issue with Device DTM and Asset Optimization communication.</p>
<p>When working with Generic HART DTM, if plant Explorer is closed, while DTM GUI is still open in Online mode, then there may be an entry in PPA alarm and event list as 'Abort'.</p> <p>800xADPH-OL-5100-005</p>	<p>Ignore the message.</p>

Table 48. General Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
During PROFIBUS cable disturbance FCI Module's (CI920) DTM switchover from Primary to Secondary takes time which affects Device DTM communication. 800xDPH-OL-5100-023	Disable and Enable Fieldbus Management Communication and perform upload/download.
If user stops FBB OPC Service when HART/PROFIBUS OPC cycles are running, ABBFDTOPC process will remain in Task manager. 800xDPH-OL-6000-001	If user wants to stop it immediately, terminate the process manually from Task Manager.

Miscellaneous

Table 49 list the problems or issues known to exist with the current release that do not fit into one of the other categories. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 49. Miscellaneous Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Redundancy switch over of a Connectivity Server leads to “bad status” in the corresponding Asset Monitors for one OPC Server cycle. 800xADPH-MS-5010-002	Correct values are available from second OPC cycle onwards.
In Generic HART DTM Force window, If user sets to exceed lower / upper range values then Popup window should appear but it's not appearing. 800xADPH-MS-5010-003	When user sets value which exceed the lower / upper range values and press apply button, no message box pops up. But in the status bar it shows a message "No HART message received". The value then goes back to last valid value and user can continue with normal operations
Aspects of device instances created from device type objects will not be updated, if a new minor version of the device type object is installed via Device Library Wizard. 800xADPH-MS-5000-032	Device Type instances will be updated with functional aspects like Device Management aspects only. The device types cannot be recognized directly via name or type definition aspects.

Table 49. Miscellaneous Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>After upgrade from previous 800xA system version less than SV5.0 the HART Generic Actuator and the HART Generic Transmitter device types in the Plant Explorers Object Type Structure includes DMS aspects.</p> <p>If the user instantiates a HART Generic Actuator or a HART Generic Transmitter in the Plant Explorers Control Structure, DMS aspects are available, even, if the connected device is not supported by DMS.</p> <p>800xADPH-MS-5000-034</p>	<p>Remove the DMS aspects manually.</p> <p>Problems have not been observed, if the device is linked into DMS, even if the connected device type does no support DMS functions.</p>

Installation

Table 49 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 50. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>After installing ABB HART Multiplexer Connect, OPCEnum service is getting unregistered from Windows Services. OpcEnum Service will list all available OPC Server.</p> <p>HART Multiplexer Connect is an option to Device Management PROFIBUS and HART The Problem Statement is applicable for Users who selects this option</p> <p>800xADPH-IN-6000-001</p>	<p>Perform below operations on all Server nodes:</p> <ol style="list-style-type: none">1. Repair “ABB 800xA Common 3rd Party Install” from Programs and Features.2. Open Windows Services from “<i>Control Pane\All Control Panel Items\Administrative Tools\Services</i>”<ol style="list-style-type: none">a. Double-click OpcEnum Service to open its properties.b. Change Startup Type from Manual to Automatic.c. Click Start.

Device Library Wizard

Operation

Table 51 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 51. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Deletion of device types will result in orphaned object types when device types instances are directly used in any structure other than Control structure. DLW will list such device types as deletable device types as it searches only to control structure if device type has been in use. 800xADLW-OL-5100-003	In such cases delete device types manually and don't use DLW delete functionality.
DLW will list PROFIBUS libraries as deletable library even if the PROFIBUS library is just connected in Control builder and actually not being used. 800xADLW-OL-5100-004	Actual Delete will not be possible in this case. Disconnect the library first in Control builder and then use DLW delete functionality.
While Synchronizing bulk number of Device types or Device Libraries from Primary Aspect server to DLW Clients, Memory Consumption will shoot up momentarily. 800xADLW-OL-5100-005	Synchronization is copying Device types installed in Primary Aspect Server to DLW Clients. Momentary Memory peak is as per Standard Windows behavior during copying from one machine to other.

Table 51. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>During Synchronization of Device types or Device Libraries from Primary Aspect server to DLW Clients, will hang in case of Network Disturbances</p> <p>800xADLW-OL-5100-006</p>	<p>After restoring Network connections, Restart DLW Client.</p> <p>TCP Error Time Out (Network Disturbance Error log) will appear after 10 minutes and this is as per Standard TCP-IP Protocol behavior.</p>
<p>During Device Type Restore, User will find device types (available in 800xA Workplace) under both Restore & Install tab</p> <p>800xADLW-OL-5100-007</p>	<p>While Restoring Device types user need to select the Device types which is available in 800xA Workplace.</p>
<p>While installing the FF object types through DLW user may get an error message "Error! failed updating AFW!, COM error = Unspecified error"</p> <p>800xADLW-OL-5100-008</p>	<p>The Error message is due to FF builder goes to locked state. The user can unlock the same by navigating to the following path</p> <p>Service structure-> FFDataStorageAndDistribution,Service -> Basic, Service Group and select the aspect Service Group Definition. Under Service group definition select the Special Configuration tab and break the lock for all the entries by right click on the same</p>

Asset Optimization

Installation

Table 52 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 52. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
In web-enabled views, the Severity icons are not displayed while calling the object for the first time. 800xAASO-OL-5150-011	Refresh the web-enabled views to view the Severity icons for the objects configured.

Configuration

Table 53 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 53. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If an incorrectly configured Asset Monitor Data Source is (or was) used by a loaded Asset Monitor, an Asset Optimization Server will report the following error message:</p> <pre>"AM Engine Running, DataSources Status: 'Asset Optimization:BAD Asset Monitor Data Source' data source error, will try to reconnect in one minute."</pre> <p>800xAASO-CN-5000-006</p>	<p>Perform one of the following:</p> <ul style="list-style-type: none">• Properly configure the Asset Monitor Data Source and reload the Asset Monitor using it.• If no Asset Monitors are configured to use the improperly configured Asset Monitor Data Source, perform a Load all AMs operation from the Asset Monitors tab of the Asset Optimization Server aspect. This will remove the improperly configured Asset Monitor Data Source from the Asset Optimization Server. <p>There will be no further retry of connection to unused dataserver(s) by data engine.</p>

Operation

Table 54 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 54. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>While inserting an Object in an Asset Structure, sometimes it is observed that the Asset Viewer propagated status shows last updated status for objects with Asset Monitor that are inserted into the Asset Structure.</p> <p>800xAASO-OL-5140-010</p>	<p>Re-insert those Objects having Asset Monitors or restart the AssetTree service located in the Service Structure.</p> <p>To restart:</p> <ol style="list-style-type: none">1. Under Service Structure, Service, go to AssetTree, Service and then expand AssetTree SG_1, Service Group.2. Click AssetTree SP_1, Service Provider.3. Select Service Provider Definition from the Aspect list on the right-hand pane.4. Clear the selection in Enabled check box to disable and then check it again to restart the AssetTree Service.
<p>When an equipment ID or Asset Monitor aspect is changed after fault report defaults are created, the changes are not updated in the fault report defaults.</p> <p>800xAASO-OL-5100-001</p>	<p>Recreate the fault report defaults.</p>

PC, Network and Software Monitoring

Configuration

[Table 55](#) lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 55. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Rarely observed that the Generate operation from "IT Device Manager" aspect or Create operation from "IT General setup" aspect creates Asset Monitor as "Object name [IT Asset object type, IT Asset Monitor]" aspect.</p> <p>During the generate operation the following error message appears:</p> <p style="padding-left: 40px;">"[Error] Asset Monitor name "Object name [IT Asset object type, IT Asset Monitor]" is not unique for [Control Structure]Root/IT Server/object name. Transaction Cancelled.</p> <p>During Create operation, the Plant Explorer closes.</p> <p style="text-align: right;">800xAPNS-CN-5100-001</p>	<p>In the Plant Explorer, use the Find tool to search for the "[*,IT Asset Monitor]" aspect in Control Structure.</p> <p>Identify all "Object name:object name [IT Asset object type,IT Asset Monitor]" in the list. Right- click and delete the aspects.</p> <p>Perform the Create/Generate operation again.</p>
<p>Basic Computer Asset cannot generate the Alarm messages of potential workstation resource problems.</p> <p style="text-align: right;">800xAPNSM-CN-5100-002</p>	<p>Do not delete the Alarms generated during Basic Computer Asset Object creation.</p>

Batch Management

Installation

Table 56 lists issues that may exist and affect the installation and migration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 56. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Missing configuration is causing Batch Redundancy not to work. This occurs when expanding systems with redundant services that have been previously deployed with Batch Primary services and Client Nodes. The configuration tool will appear to have successfully deployed even though the configuration is not correct. 800xAPMB-IN-6000-012	Create the ODBC Connection on all nodes after the deployment is complete. Launch command prompt as Administrator and Navigate to <i><Installed drive>\Program Files(x86)\ABB Industrial IT\Produce IT\Batch\bin</i> Run <i>BatchDSNUtility.exe</i> <PrimaryNodeName> <SecondaryNodeName>

Configuration

Table 57 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 57. Configuration Issue

Issue	Workarounds, Clarifications, and Helpful Hints
Oracle (Information Manager) returns an error when a Batch recipe operation tries to use the same history association name (logical name) that another operation in the recipe has already used. This operation is not started. 800xAPMB-CN-5020-003	Ensure that unique logical names are used in recipes. These logical names can be created dynamically using Batch expressions.

Operation

Table 58 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 58. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Deleting a Batch Cell while batch recipes are scheduled under that batch cell will cause the recipes to no longer be displayed in the Batch Overview dialog. 800xAPMB-OL-5140-125	There is no workaround. Users should not delete the Batch Cell if there are associated batches scheduled with that cell.
Users unable to reset/restart a faulty Harmony phase within Batch Status dialog. The phase will not return to Idle with a Start@Beginning or Continue@Next command. This is a change in behavior from PPB Batch Operations within the Batch Status dialog where Start@Beginning would reset and restart the phase and Continue@Next would reset the phase to Idle. 800xAPMB-OL-5140-120	PhaseX faceplate must be used to reset or restart and clear the fault.

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>The user set permissions defined in Aspect Category Definitions are being over written with batch default settings during upgrades and updates.</p> <p>The Aspect Category Definitions are all part of the “Batch Management Procedures, Aspect System” found in the Aspect System Structure. The following Aspect Category Definitions are affected:</p> <ul style="list-style-type: none"> • Batch Cell Definition • Batch Migration Tool • Default Procedure Configuration • Print procedure • Procedure Configuration • Procedure Xrefs • Approved Procedure • Development Procedure • Version Procedure <p>800xAPMB-OL-5140-119 Product Bulletin: 3BUA00290</p>	<p>Prior to upgrading or updating, users should document the permission settings in each of the category definitions as listed above. The setting can easily be reconfigured by editing the permission settings on the permission tab of the Aspect Category Definition.</p> <p>Specific information on changing the permissions for the Aspect Category Definition can be found in 800xA Batch Management Configuration Guide (3BUA000146-xxx) in the section about the Batch Cell Definition Aspect.</p>
<p>Batch Procedure Function Chart (PFC) displays are closing on their own unexpectedly, without any user interaction. This issue is related to security changes being perform while the PFC displays are open. Any security change made to the system will initiate closure of any open PFC display from any client in the system.</p> <p>800xAPMB-OL-5140-115 Product Bulletin: 3BUA002862</p>	<p>Avoid changing security settings while the PFC displays are open. Simply reopen the displays if this occurs. This issue will be corrected in a future release of 800xA Batch Management.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Unable to schedule Batch from the Scheduler Aspect as the default cell is unavailable and the Batch cell is invisible in the main view of the Scheduler Aspect.</p> <p>800xAPMB-OL-5130-035</p>	<p>If the default cell is unavailable for a Procedure, make the Batch Cell field visible from the Config View of the Batch Scheduler Aspect.</p>
<p>Out Value of Batch phase parameters are not captured in the standard Excel "Batch report Template".</p> <p>800xAPMB-OL-5120-112</p>	<p>This problem is intermittent, try rerunning the report until the values are updated.</p>
<p>A VB runtime error 91 is displayed if the Excel sheet is closed during loading of parameters in Batch Spreadsheet Scheduler.</p> <p>800xAPMB-OL-5110-002</p>	<p>Close and re-open the Microsoft Excel sheet.</p>
<p>The expression "gets" is used to get the current data value for a specified OPC item. If a string OPC item is used with the "gets" expression the returning value will always be 0.0.</p> <p>There is no indication that the expression type was wrong for the value it was trying to obtain. There are no error messages.</p> <p>800xAPMB-OL-5102-112 Product Bulletin: 3BUA002978</p>	<p>The "gets" expression does function correctly when used with the correct data type.</p> <p>Confirm and test that the correct data type is being used with the "gets" expression. Use "gets" for OPC string items.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Harmony communications can fail to write commands from the Batch Manager to the control logic in the Harmony controller. This failure generates a Batch Alarm. The Batch Recipe will stall on the active block experiencing the communication error and the Recipe Procedure block will turn red indicating an error.	<p>Navigate into the Batch Recipe PFC and select the Block</p> <p>Status of the recipe procedure block experiencing the error.</p> <p>If the block in error is a Compute BMA (Batch Manager Action) use the Start @ Beginning command to retry the compute expression.</p> <p>If the block in error is a Phase, Open the block status of the Phase in error and select either the Start @ Beginning or</p> <p>Continue @ Next command depending on the error shown in the block status Errors field.</p> <p>Conditions that indicate the Phase failed to start and a Start@ Beginning Command is needed:</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
	<p>Command = 1 (Start)</p> <p>Command = 14 (Test Phase)</p> <p>Command = 15 (Start Sequence)</p> <p>Command = 16 (Test Sequence)</p> <p>Command = 31 (Send Phase Data)</p> <p>Command = 32 (Send Sequence Data)</p> <p>Conditions that indicate a Continue @ Next command is needed.</p> <p>Command = 6 (Reset)</p> <p>To correct this on the Acquire:</p> <p>Go to the Batch Recipe and select the Acquire block in error and select the Block Status dialog and then select Stop.</p> <p>Go to the Unit's Phasex Faceplate (Unitname_P1)</p> <p>Open the expanded faceplate (...) and Select LOC, Select the Reset and confirm the FA (Fault) on the Faceplate is cleared. Then select the Acquiring IDs Tab and select the Release Button. Confirm the lock icon at the top of the Faceplate is unlocked. Place the Controller back in BM. Go back to the Recipe Acquire block status dialog and then select Start @ Beginning.</p> <p>To correct this on a Phase:</p> <p>Go to the Batch Recipe and select the Phase block in error and select the Block Status dialog and then select Faceplate.</p> <p>Go to the Unit's Phasex Faceplate (Unitname_P1)</p> <p>Select LOC, Select the Reset Button. Confirm the FA (Fault) on the Faceplate is cleared. Place the Controller back in BM. Go back to the Recipe Phase block status dialog and then select Start @ Beginning.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In the PFC editor, when a new block is dropped between nested branches, the existing blocks should move automatically and accommodate the new block.</p> <p>Currently, the automatic movement of the blocks does not happen correctly and that causes the new block to remain disconnected.</p> <p>800xAPMB-OL-5101-035</p>	<p>The user has to manually move the existing blocks horizontally to create enough space to accommodate the new blocks so that the blocks remain connected.</p> <p>Then, use the Align option to align all the blocks in proper order.</p>
<p>If the Auto-align option is enabled in the PFC editor, when a new block is dropped between nested branches, the existing blocks should align automatically in the horizontal direction.</p> <p>Currently, the blocks are getting aligned in the vertical direction.</p> <p>800xAPMB-OL-5101-036</p>	<p>Manually move the existing blocks horizontally, so that the newly dropped blocks get aligned in the horizontal direction.</p>
<p>Procedure align fails to handle a branch with a trivial leg, where a trivial leg is a direct connection between a parallel branch Start and a parallel branch End block, with no intervening blocks between them.</p> <p>800xAPMB-OL-5101-037</p>	<p>Align the procedure before establishing the connection between the Parallel branch (Start) and Parallel branch (End) blocks.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Adding parameter(s) to a phase when the library and applications are not reserved in Control Builder causes the phase parameter to be added to the Object Type of the phase. But, the phase parameter fails to get written to instances. This generates an error message that the parameter could not be added.</p> <p>When the proper steps are followed after the failure, the same error gets generated.</p> <p>800xAPMB-OL-5101-039</p>	<p>Always reserve the library and application. This will ensure that there are no consistency issues.</p>
<p>The PFC Editor may stop responding while configuring and saving when there are large numbers of blocks.</p> <p>800xAPMB-OL-5101-040</p>	<p>Edit the crashed Procedure. A message <i>Do you want to reload the unsaved changes</i> is displayed.</p> <p>Click Yes.</p> <p>Information of all the configured blocks will be reloaded into the editor, except for the last configured block.</p>
<p>While editing multiple attributes in the runtime grid view, if the Limited Low and Limited High are lower or higher than the current InValue, then the grid view is cleared, but the Limited High and Limited Low values get retained.</p> <p>After this state, if the InValue is changed to a value within the new Limited High and Limited Low and saved, then the cleared values are saved as the new Limited Low or Limited High value.</p> <p>800xAPMB-OL-5101-042</p>	<p>When editing multiple equipment attributes in the runtime grid view, ensure that the Limited Low or Limited High value of the attributes are not edited to a value higher or lower than the current InValue.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>When Batch Report in xlsx format is printed from Batch Information or Batch History Information, it does not print an updated Batch Report. However, when a xlsx or xls format of Batch Report is opened for printing, the report gets updated automatically and printed correctly.</p> <p>800xAPMB-OL-5101-043</p>	<p>When an xlsx format of Batch Report is opened for printing, press F9 key to update the report and then print it.</p> <p>Or</p> <p>When creating the Batch Report.xlsx template, ensure that the function Calculation Option is set to the option Automatic.</p>
<p>In the Environment configuration enabled system, a deleted Development Procedure aspect is immediately removed from the view in the Procedure Structure. However, the aspect is deleted (internally) after 10 minutes. During this interval, if a new Development Procedure aspect is created, its procedure data is also deleted.</p> <p>800xAPMB-OL-5100-021</p>	<p>In the Environment configuration enabled system, after deleting the Development Procedure aspect, wait for 15 minutes to create a new Development Procedure aspect in the same Procedure object.</p>
<p>In some instances, Graphics Display having Batch Graphic Elements such as UnitStatus Display Element and PhaseStatus Display Element stops responding if resized.</p> <p>800xAPMB-OL-5100-028</p>	<p>Close and reopen the workplace.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>While upgrading an existing system to the System Version 5.1/6.0, the system overwrites the entire Miscellaneous Configuration Aspect in the backup. This removes all the existing Batch IDs and the stored settings in the Miscellaneous Configuration Aspect.</p> <p>In addition, some incorrect Batch IDs are also loaded as part of Miscellaneous Configuration. The incorrect Batch IDs will also appear in a newly created system.</p> <p>800xAPMB-OL-5100-031</p>	<p>Restored system:</p> <p>Export the Miscellaneous Configuration aspect from the [Library Structure] BatchManagement/Configuration object in the backed up system.</p> <p>Import the Miscellaneous Configuration aspect, after restoring the system.</p> <p>New system:</p> <p>Identify the incorrect Batch IDs and remove them manually.</p>
<p>For Batch interfacing with DCI systems, Batch IDs having more than 20 characters cause a time-out condition to be generated by the Batch manager when trying to execute the procedure.</p> <p>800xAPMB-OL-5100-032</p>	<p>Always ensure the Batch IDs have less than 21 characters.</p>
<p>Batch equipment and phase templates do not work after a Version 3.1 SP3 800xA System is restored on a Version 5.0 SP2 800xA System.</p> <p>800xAPMB-OL-5020-028</p>	<ol style="list-style-type: none"> 1. Delete the MainFaceplate and/or MainFaceplate_Pre50 aspects from each phase type in all user libraries (Object Type Structure/ Object Type/AC800M/C Connect/Libraries/ <i>user_library</i>/Control Module Types/<i>phase_types</i>). 2. Copy the MainFaceplate aspect from Object Type Structure/Object Type/AC800M/C Connect/Libraries/BatchAdvTemplatesLib/Control Module Types/PhaseTemplate object to each phase type in all user libraries.

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If Batch Equipment (Units) and Equipment Group objects are deleted from a system and then the same objects are imported back into the system (from an .afw file), procedures that reference these deleted objects will not execute properly. Control recipe execution failure modes will vary based upon the specific circumstances.</p> <p>800xAPMB-OL-5000-026</p>	<p>If the Batch application has been installed in a redundant configuration and the secondary Batch server is active and synchronized, force a failover to secondary server node operation to allow the affected procedures to execute properly. The former primary Batch Server should then be restarted and established as the secondary Batch Server using the standard published instructions.</p> <p>If the Batch application has been installed in a non-redundant configuration (or the secondary Batch server is not available), it is necessary to stop the Batch Services, shutdown and restart the Batch Server and restart Batch services to allow the affected procedures to execute properly.</p>
<p>Poor usage of memory by bmsAddValue results in the recipe editor running out of memory. This happens while recipe is saved with 3000 parameters.</p> <p>800xAPMB-OL-5102-044</p>	<p>Allocate more memory to reduce reallocate frequency.</p>
<p>When attempting to schedule a Batch using batch_sbbatch for a procedure that has the same name as another procedure, the following error will appear and the schedule call will fail:</p> <p>Errors: Specified recipe does not exist.</p> <p>800xAPMB-CN-5024-010</p>	<p>To identify duplicate named procedures, the path to the procedure must be specified as mentioned in the following example:</p> <p>batch_sbbatch -b BID -r PathToProcedure/ProcedureName.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In the versions prior to 5.0, the “Event Attribute Object Extension” aspect is present in the Service Structure under the Alarm Manager. For version 5.0 and greater, these are not required. Leaving these entries in place will cause the Alarm Events data (report) to have redundant entries.</p> <p>800xAPMB-OL-5102-047</p>	<p>These Event Attribute Object Extensions are no longer used for Alarm Management.</p> <p>Delete all the "Event Attribute Object Extension" aspects.</p>
<p>Melody phase driver collects the output parameters in Completed and Aborted states only.</p> <p>800xAPMB-OL-5104-089</p>	<p>No workaround exists for this issue.</p>
<p>In the Procedure Structure of PPA, system stops responding and may crash if reference to one of the Procedure Object is inserted under the same Object and is kept empty.</p> <p>800xAPMB-OL-5130-094 800xAPMB-OL-5104-091</p>	<p>Delete the lower Empty Procedures Object.</p>
<p>When creating a new equipment, the type defaults to AC 800M/C, which is counted towards the number of equipment(s). If the equipment count is already at its maximum, then the creation of a new equipment including Pseudo units is rejected.</p> <p>800xAPMB-OL-6000-001</p>	<p>Copy and Paste an existing pseudo unit. If there are no pseudo units, then the workaround is to remove one of the real units, and add the pseudo unit, and then re-add the real unit.</p>

Table 58. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In case of Failover of Batch Server, if the equipment overview window is open, then the updated status of the equipment is not shown.</p> <p>800xAPMB-OL-6000-002</p>	<p>Close and reopen the equipment overview window to show the correct status of the equipment.</p>
<p>A non-redundant Batch server will fail to periodically truncate the transaction logs. The transaction logs will grow unbounded and eventually consume all the disk space.</p> <p>800xAPMB-OL-6000-009</p>	<p>Perform a database backup of the SymFlexDB database. The periodic transaction log truncation will then succeed.</p>
<p>The Batch DSN Utility will not run properly when launched from the ABB Start Menu. User will get an error message</p> <p>800xAPMB-OL-6000-010</p>	<p>No workaround exists for this issue.</p>
<p>Batch Manager stops responding if the License Status Viewer application is opened in the system for extended periods of time (greater than an hour).</p> <p>800xAPMB-OL-6000-011</p>	<p>Avoid opening License Status Viewer application on Batch server nodes.</p>
<p>When the CLS server is offline in a running system it provides temporary licenses to the system. During this period, if a user tries to schedule a batch using Batch Overview the Batch Schedule dialog will take more time to open. In some cases, the Batch Overview goes to a non responding state.</p> <p>800xAPMB-OL-6000-013</p>	<p>The Add button on the Batch Overview appears to be non responsive. It may take several minutes for the Batch Schedule dialog to open.</p>

800xA History

Installation

Table 58 lists the issues that may exist and affect installation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 58 Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>During installation of HA History Servers in Workgroup environment, database installation gets skipped in Replica History Server.</p> <p>800xAHistory-IN-6000-002</p>	<p>Before starting the installation of History Servers in HA Configuration, perform the below steps in both the History Servers.</p> <ol style="list-style-type: none"> <li>1. Disable User Access Control from Control Panel > User Accounts > Change User Account Control settings. <li>2. Open the Local Security Policy for the Control Panel > Administrative Tools. <li>3. In the Local Security Policy window, navigate to Security Settings > Local Policies > Security Options. <li>4. Select the Security Policy named as User Account Control: Run all administrators in Admin Approval Mode and change the Security Setting from Enabled to Disabled. <li>5. Close the Local Security Policy window.

Table 58 Installation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
In the event of NLB network cable disconnection at the Primary History Server, holding the Master Token of Services, the Hot- Standby History Server does not take over the Master Tokens for EventForwarder and TagConsistencyController . Due to this, the newly created tags and the events does not get collected in either of History Servers. 800xHIS-IN-2001-002	Stop the History Services of the earlier Primary which was holding the Master Tokens.

Configuration

Table 59 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 59. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Deadband configuration on Log Configuration aspect is not available. 800xAHistory-CN-2000-003	No workaround exists for this issue.

Operation

Table 60 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 60. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Status alarms of RTDB Services in Standby DCN does not get reported in 800xA System Alarm List. 800xAHistory-OL-2000-006	No workaround exists for this issue.
In HA Configuration of 800xA History Servers, if the Hot-Standby History Server is unavailable then the History Supervision aspect will not update the correct status of Replica Node. 800xAHIS-OL-6000-002	No workaround exists for this issue.
Event Retrieval into 800xA fail with Timeout popup when a single subcategory of events are tried to retrieve from History database. This happens only with unbounded timestamp queries (latest time to oldest time). 800xAHistory-OL-6000-003	Use bounded time queries (specific timestamps) to retrieve single subcategory of events.

800xA for Advant Master



Additional tag licenses may be required when updating or upgrading to 800xA 6.0.1 (or newer versions). This is due to an error in earlier versions when calculating DAT objects in the system, which now has been corrected. Refer to 2PAA112277-601, section System Services issue 800xASRV-OL-6010-001 for further information.

Administration

Table 62 lists the issues that may exist and affect the administration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 61. Administration Issues

Issue	Workarounds, Clarifications and Helpful Hints
A memory leakage has been detected in RTA Management Service, AdvMbRTA.exe. The leakage is caused by the Advant Master Central Backup function. The size of the leakage is dependent of the number of backups taken. For more information, refer to Product Bulletin 3BSE084525. 800xAADM-AD-5141-001	There is no workaround other than restart the server (or at least the service provider) when the leakage becomes evident.
The display "Local Devices" sometimes shows error "Array index out of range" in PG2 Diagnostics window. . 800xAADM-AD-5104-001	These error messages can be ignored. No workaround is needed.

Configuration

Table 62 lists the issues that may exist and affect the configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 62. Configuration Issues

Issue	Workarounds, Clarifications and Helpful Hints
<p>Node objects in Control structure of type MP200 Controller will report the following error:</p> <p>"Formal aspect 'Control Connection' should not be propagated to instance..."</p> <p>when running the Consistency checker tool after upgrade from older versions to 6.0.</p> <p>800xAADM-CN-6000-002</p>	<p>The error can be repaired by the Consistency checker tool.</p>
<p>Using the System Status Viewer (SSV) on the Root object of the control structure can cause high system load</p> <p>800xAADM-CN-6000-003</p>	<p>It is not recommended to use the System Status Viewer (SSV) on the Root Object. This aspect is delivered with 800xA for Advant Master and is configured to show all system status in Control structure. Delete this aspect on the Root object and use it on the underlying network objects instead.</p>

Table 62. Configuration Issues (Continued)

Issue	Workarounds, Clarifications and Helpful Hints
<p>Object has wrong type in control structure in System 800xA after upload. The issue is created by following this sequence:</p> <ol style="list-style-type: none"> 1. Create a DI object in the controller 2. Upload the controller 3. Delete the DI object 4. Create an AI object with the same name as the deleted DI object 5. Upload the controller <p>800xAADM-CN-5102-001</p>	<p>Do the following to ensure that the correct object instance is added to the control structure in System 800xA:</p> <ol style="list-style-type: none"> 1. Create a DI object in the controller 2. Upload the controller 3. Delete the DI object 4. Upload the controller, to ensure that the DI object is removed from the control structure 4. Create an AI object with the same name as the deleted DI object 5. Upload the controller to add the correct object instance to the control structure
<p>The online help for On-line Builder Commands do not function for RTA board Configuration in Windows 8.1 and Windows Server 2012 R2.</p> <p>800xAADM-CN-5100-004</p>	<p>A Windows Help and Support window is displayed if any error occurs.</p> <p>It is possible to correct the error for Windows 8.1 by following the instructions provided in Microsoft Help and Support website. This instruction includes download of a program that helps to view the On-line Builder Commands help file.</p>

Operation

Table 63 lists the issues that may exist and affect the operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 63. Operational Issues

Issue	Workarounds, Clarifications and Helpful Hints
<p>The Local device status display used for AC 410, AC 450 and Safeguard 400 controllers may indicate wrong status for the second Program/Application card.</p> <p>800xAADM-OL-5111-002</p>	<p>No workaround exists for this issue.</p>
<p>Misleading information appears in display elements when opening a process display, if the controller is in configuration mode.</p> <p>800xAADM-OL-5100-008</p>	<p>Some display elements show a valid symbol for a minute, even if the related controller is stopped. For example, a valve symbol shows <i>Closed</i> position. After sometime, the display elements indicate bad data.</p>
<p>Some alarms cannot be acknowledged after restart of Connectivity Server.</p> <p>800xAADM-OL-5103-001</p>	<p>No workaround exist for this issue.</p> <p>These alarms can however be acknowledged when the object is in normal state and no other unacknowledged alarms exist in the alarm list for this object.</p>
<p>Alarms generated first few seconds after a controller restart may not be sent to a Connectivity Server, due to late reaction in the Connectivity Server when the controller becomes available again.</p> <p>800xAADM-OL-5103-002</p>	<p>No workaround exist for this issue.</p>

800xA for AC 100

Configuration

Table 64 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 64. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
The AC 110 version 2.0 is not compatible with 800xA for AC 100 and AC 100 OPC Server. 800xAAC1-CN-5100-001	Upgrade AC 110 to version 2.1 or a newer product version.
800xA for AC 100 does not support disabling of alarms from alarm list. There is no way to enable alarms which have been disabled. Performing “ Disable Object ” from context menu for an alarm condition will disable alarms from that object until the Connectivity Server is restarted. 800xAAC1-CN-5020-002	To disable the function uncheck the “ Supports Disabling ” check box, in the ABB AC 100 OPC Alarm Server, Alarm Collector Definition object in Library Structure.
No NLS support exists for the Event Categories (Process Condition Event, System Condition Event and System Simple Event) and Event Conditions (Level L, Level LL, etc.) 800xAAC1-CN-3100-001	No workaround exists for this issue.
Alarm limits of DAT_AI are not visible in OPC and hence in PPA. 800xAAC1-CN-5020-001	Use the AIS element instead of DAT_AI, if alarm limits are needed.

Operation

Table 65 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 65. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>The faceplate Alarm Control does not indicate that the alarm is blocked if the alarm is in alarm state.</p> <p>800xAAC1-OL-5100-001</p>	<p>No workaround exists for this issue.</p>
<p>CI527A must be set to AF 100 Bus Master to get proper status indication for System Status Viewer.</p> <p>800xAAC1-OL-6000-001</p>	<p>Always configure CI527A as AF 100 Bus Master.</p>
<p>It is not possible to enter values using the Input field, outside the range 0-100 on the following faceplates: AIS, AOS, DAT_AI and MR. However, entering values from the bar graph is possible.</p> <p>800xAAC1-OL-4100-001</p>	<p>The faceplate elements Control PG2 and Reduced Control PG2 can be corrected for these object types. The Max/ Min parameters should be set to RANGE_MAX/RANGE_MIN instead of 100/0.</p>
<p>The DAT_DAT faceplate cannot present boolean values, and it is not possible to enter a new value for any value type.</p> <p>800xAAC1-OL-5020-002</p>	<p>No workaround exists for this issue.</p>

Table 65. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If an alarm for DAT_AI is active in the Advant Controller and was send to OPC Server, after a restart of the OPC Server, the Alarm is not delivered to OPC Clients.</p> <p>800xAAC1-OL-3100-001</p>	<p>If the alarm later on becomes inactive this is not shown in the alarm list.</p>
<p>A single cable failure on AF100 leads to toggling of Status bit for AC 100 AF100 CI and therefore also AC 100 AF100 CI Summary.</p> <p>800xAAC1-OL-4000-001</p>	<p>No workaround exists for this issue.</p>
<p>Removing one AF100 interface of a redundant pair is not signalled in AC 100 AF100 CI Status object.</p> <p>800xAAC1-OL-4000-002</p>	<p>Missing module errors are indicated by the AC 100 AF100 IO CI Summary object.</p>
<p>The Faceplate aspect for signal objects, that can have a value above ten million, does not show the correct value when it exceeds ten million.</p> <p>800xAAC1-OL-5020-001</p>	<p>Customize faceplate and Object Display.</p>

800xA for Safeguard

Operation

Table 66 lists the issues that may exist and affect operational of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 66. Operational Issues

Issue	Workarounds, Clarifications and Helpful Hints
Double-click an Advant Master graphic element. This might display an Object Display instead of the Faceplate. 800xAADM-OL-4100-015	Execute the following steps: 1) Open the Aspect Precedence List aspect located in the Library Structure (Library Structure > Preferences & Customizations > Aspect Precedence Lists > Default precedence list). 2) Move the Default Aspect below the Faceplate.

800xA for AC 870P/Melody

Installation

Table 67 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 67. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Unable to open the Object List in Melody Configuration Server. 800xAMel-IN-6000-002	The prerequisite for the Object List to open is to set the language for Internet Explorer as English (United States) and this must be on top of all the preferred languages. To set this: Open Internet Explorer >Options > Languages >Set Language Preferences.
The following functionalities are currently unavailable within System 800xA 6.0: <ul style="list-style-type: none">System 800xA for Melody Asset Management for HART Devices.Composer Melody Navigation. These functionalities require a Composer Melody (S+ Engineering) installation on 800xA Nodes. There is currently no release of Composer Melody on Windows 8.1 and Windows Server 2012 R2 . 800xAMel-IN-6000-003	Users who need these functionalities, should contact ABB Level 3 Support for further information.

Table 67. Installation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
Configuration Server Replication is offline after Configuration and Connectivity Server nodes were started at the same time, especially after the system was updated offline from a previous version. 800xAMel-IN-6001-001	Restart the Configuration Server node and then, one by one, the Connectivity Server nodes. The Replication Monitor should show all nodes as online.
Installing a MI subscriber system requires to select the Configuration Server node although the system does not contain a Configuration Server and only Melody Client components need to be installed. 800xAMel-IN-6001-002	The Configuration Server name is not used when installing Melody Client components, so any of the available server nodes can be selected as Configuration Server.

Operation

Table 68 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 68. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
If a Trend Display is open, it could possibly be that the low and high range for some tags did not show the actual value instead showed the default range 0 - 100. 800xAMel-OL-6000-001	Reopening the Trend Display can fix this issue.

800xA for DCI

Installation

Table 69 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 69. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>If the system is configured with 800xA Batch for DCI and the System Update Tool is used to update to 800xA 5.1 current revision, in 800xA for DCI when DCI MSET objects are created or imported an error message appears due to an outdated aspect "MSET Type Definition.</p> <p>The <i>40_DciBatchObjectTypes.afw</i> file must be re-imported before uploading any DCI MSET objects.</p> <p>800xADCI-IN-5101-002</p>	<p>Execute the following steps:</p> <ol style="list-style-type: none">1. Open the Import/Export Tool from Start > All Programs > ABB Industrial IT 800xA > System > Import Export.2. Click the Open icon or select File > Open, to open the <i>40_DciBatchObjectTypes.afw</i> file. <p>Path:</p> <p>C:\ Program Files (x86)\ ABB Industrial IT\800xA\ DCI Library\ DciBatch\ import\40_DciBatchObjectTypes.afw</p> <ol style="list-style-type: none">3. Click the Import All icon or select Actions > Import All, and then click Finish. <p>Click Yes on the prompts on overwriting aspects.</p>

Table 69. Installation Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>System Update may fail to complete on 800xA for DCI Batch nodes due to a pending Maintenance Stop action.</p> <p>800xADCIN-6001-002</p>	<p>Before updating an 800xA for DCI Batch system, do the following to stop the Batch Services on each 800xA for DCI Batch node:</p> <ol style="list-style-type: none">1. Right-click on the Windows Start icon on the Taskbar, and click Run. Enter “Services.msc” in the Run text box. After a few moments, the Windows Service Management Console window appears.2. Right-click on “Batch Service” in the list of services, and select Stop from the pop-up menu.3. Click on the File menu item, and select Exit from the drop-down menu. <p>Proceed with the 800xA Update process.</p>

Operation

[Table 70](#) lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 70. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>When the Module Set (MSET) Lock bit is set (LCK = 1), operators are not prevented from making changes to the module as was the case from Conductor NT.</p> <p>800xADCI-OL-5101-008 Product Bulletin: 3BUA002399</p>	<p>There are fundamental security differences when operating from Conductor NT and 800xA operator stations. DCI/Conductor NT security is server (DCU) based. 800xA security is client (operator station) based.</p> <p>Workaround:</p> <p>Configure the 800xA Control Connection permissions to disallow writes to any atom that a particular operator is not permitted to write to from a Conductor NT operator station when the module is locked.</p> <p>That operator will not be able to write to those atoms from the 800xA operator station under any circumstance, but will still have the normal privileges at the Conductor NT operator station.</p> <p>If those atoms need to be written from the 800xA operator station then they will need to be made by an operator permitted to write to them with the module locked or unlocked.</p>
<p>Disconnecting both control network cables from the primary DCI Connectivity Server does not force a switchover to the backup CS.</p> <p>800xADCI-OL-5021-012</p>	<p>Workaround: Shut down the primary CS to force the switchover.</p>

Table 70. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>On a restart of a Connectivity Server, the Connectivity Server may not list all nodes it finds as introduced.</p> <p>800xADCI-OL-5023-010</p>	<p>Dual Watchdog completes its startup with the event %+ communication with DCI network resumed. This appears to be the last message recorded from that server during a startup. It may happen before all nodes are discovered.</p>
<p>System alarms that happen more than once are not displayed more than once in the alarm and event list.</p> <p>800xADCI-OL-5023-009</p>	<p>This is as per design. System 800xA does not re-display alarms that have the same information as another active alarm. The Conductor NT Event Historian would display these alarms.</p>
<p>DCI Batch OPC server may stop reporting phase completions. The next phase cannot run because the MSEQ module associated with the phase is marked as in use.</p> <p>800xADCI-OL-6000-001</p>	<p>Failing over to a redundant DCI Batch OPC Server frees the MSEQ module allowing the batch to continue.</p>
<p>DCI Batch sequences may show error as Sequence not IDLE. This has been observed in batches with parallel sequences.</p> <p>800xADCI-OL-6000-002</p>	<p>There are no known workarounds.</p>
<p>The DCI Tag Importer may not complete an import of 800xA for DCI tags.</p> <p>800xADCI-OL-6001-001</p>	<p>In the Object Type Structure, remove the Basic Object Name Hook from the ANI FIX 0 in the Symphony DCI Object Type Group.</p>

800xA for Harmony

Installation

Table 71 lists the issues that may exist and affect installation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 71. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>When performing an Upgrade of System 800xA having 800xA for Harmony Batch, the following messages may appear in the Configuration Wizard upgrade log during restoration of the 800xA Maintenance backup:</p> <p>Tue Mar 31 09:22:59 2015: Upgrading the Harmony Batch System Extension from system version 5.1-0 to system version 6.0-0.</p> <p>Tue Mar 31 09:22:59 2015: Could not find '[Direct][Admin Structure]Administrative Objects.Inventory Object.Aspect Category.Harmony Parameters', Error Number: -1967453661</p> <p>Tue Mar 31 09:22:59 2015: Harmony Connect upgrade failed, Error Number: -1967453661</p> <p>800xAHAR-CN-6000-010</p>	<p>The messages are being generated due to an attempt to delete a duplicate Harmony Batch Aspect that may not exist in the system. This will not cause any operational problems, and these messages can be ignored.</p>
<p>800xA for Harmony no longer supports SCSI INICI03 or later interfaces.</p> <p>800xAHAR-IN-5101-004</p>	<p>800xA for Harmony supports IET800, PNI800, and serial interfaces.</p>

Administration

Table 72 lists the issues that may exist and affect administration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 72. Administration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Cannot set the IP address of the IET800 when working in a virtual environment. 800xAHAR-AD-5101-001	Use a hyper terminal connected to the serial port of the IET800 to set the IP address. IET800 diagnostic mode must be enabled.

Configuration

Table 73 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 73. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
When exporting/importing PG2 graphic displays from one Harmony system to the other, there is no Display Tool available to fix object references. 800xAHAR-CN-5021-006	To transfer PG2 aspects and resolve and approve them on a different system: <ul style="list-style-type: none">• Import the PG2 graphic displays. - Aspect by aspect - Data References > Resolve All > OK > Save, Close. - Partial Multiple aspects - Use the Check Consistency Tool > Select All > Repair > All aspects will be Unapproved. Drag each object/aspect into the Reference Tool > Approve.

Operation

Table 74 lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 74. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Block and Module Detail display call-up times can be between 5 and 30 seconds when using an IET800 or PNI800 with 800xA for Harmony. 800xAHAR-OL-5101-003	No workaround exists for this issue. The call-up time for the Block and Module Detail display does not impact normal plant operation and control.
Incorrect violated limits can be displayed for DAANG Tags with multiple level alarm limits defined. 800xAHAR-OL-5102-015	The software has been updated to improve the accuracy of the displayed DAANG Tag violated limits, however it is still possible that incorrect violated limits may be displayed.

800xA for MOD 300

Installation

Table 75 lists the issues that may exist and affect installation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 75. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Having a whitespace character in the Service Account password will make automated post installation steps fail for 800xA for MOD 300. 800xAMOD-IN-6000-003	Avoid using whitespace characters in the Service Account password.

Configuration

Table 76 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 76. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
MOD 300 Displays are not available for in the subscriber system when using Multisystem Integration. 800xAMOD-CN-6000-001	MOD 300 Displays will function in Multisystem Integration when they are native to the system they are being run against.

Table 76. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Whenever you use an attribute for a loop that contains a PID FCM, both Medic and 800xA show the PID extension. If the loop does not contain a PID FCM, it shows only the loop name without the LCM extension. This is also observed with the GET FCM. It appears that addressing any attribute with the LCM extension changes to PID when the loop in which you are getting the attribute from contains a PID FCM.</p> <p>800xAMOD-CN-5020-021</p>	<p>This is a display issue and does not affect operation.</p>

Operation

[Table 77](#) lists the issues that may exist and affect operation of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 77. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Any translation of a device loop INITIAL COMMAND field that represents a device descriptor set with binary output range greater than 15 will not display correctly in Loop FCMs.</p> <p>800xAMOD-OL-5103-001 Product Bulletin 3BUA002812</p>	<p>There is no workaround for this issue.</p>
<p>Messages appear to be lost from TCL programs.</p> <p>If a duplicate Billboard message is generated, this message will appear at the bottom of the list. This message also shows the original active time, giving the appearance that the message is lost.</p> <p>800xAMOD-OL-5010-027</p>	<p>This problem can occur if there is a message queue of 256 messages. If the messages are not acknowledged in a timely manner, the recurring Billboard message can appear to be lost because it appears at the bottom of the list.</p> <p>If Billboard messages are acknowledged in a timely manner, this problem will not occur. The workaround for these messages is to create an Event List for the Billboard messages and sort them by 'Event Time' rather than the default 'Active Time'.</p>

Table 77. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
ABBGetOPCDA calls from DataDirect may return #VALUE! when reporting on 800xA for MOD 300 data. 800xAMOD-OL-5103-004 Product Bulletin: 3BUA003000	The DataDirect report may be ran again to retrieve data missing in the first report. This is a timing issue that does not affect the same data points each instance of the report.
When Print to File is used for importing a MOD 300 Environment into 800xA and the first block of the group is blank, the whole group will not be imported. 800xAMOD-OL-5103-005	There is no workaround. Make sure that the first block of the group is not blank before Print to File is used for importing a MOD 300 Environment into 800xA.

800xA for TRIO

Installation

Table 78 lists issues that may exist and affect the installation and upgrade of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 78. Installation Issues

Issue	Workarounds, Clarifications, and Helpful Hints
A firmware upgrade of the CI862 through the Control Builder may fail. If you click Show Firmware Information , it will show the BOOT version for the failed module and the fault LED will keep blinking on the respective CI862 module. 800xA TRI-IN-5010-001	Download the firmware to the respective module. When the file transfer window shows 10 seconds, perform a hot swap of the module and then retry. The firmware will be upgraded and the Version column will show the correct downloaded version.
Online upgrade is not supported on a controller with CI862 installed. 800xA TRI-IN-5010-002	Only a hot swap of a CI862 interface is supported.
Sometimes, during the firmware upgrade of a CI862 in the lower segment (positions 7-12) of the redundant controller, it may fail. 800xA TRI-IN-5012-001	Upgrade the firmware again. If this does not work, upgrade the firmware of the CI862 modules only on the upper CEX segment (positions 1-6). Then swap the upper CI862 segment with the lower one. Now upgrade the new upper CI862 segment.

Configuration

Table 79 lists the issues that may exist and affect configuration of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 79. Configuration Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Baud rate change in CB on CI862 does not affect communication with TRIO IO modules. User will observe this scenario when Baud Rate of TRIO blocks are changed while configuration is present in the controller. 800xATRI-CN-5101-001	User should Reset the controller and download the application to CB. Then correct behavior can be seen. Do not perform baud rate changes on TRIO IO modules in running plant.
If the CI862 is deleted in the hardware tree of the Control Builder application and program is downloaded, the Controller may crash. 800xATRI-CN-5101-002	Reset the controller if a CI862 is removed from the hardware tree in Control Builder M. Do not delete CI862 modules configured in CB in running plant.
IPConfig throws error when PM864 connected with CI862. 800xATRI-CN-5101-003	Set the IP of the controller first using IPCONFIG before connecting the CI862 on the CEX bus.

Table 79. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>Problem observed when hot swap of multiple CI862 modules is performed.</p> <p>For example, four CI862 modules at positions 1,3,7 and 9 exist. The CI862 at position 3 is removed and reinserted.</p> <p>Before the CI862 at position 3 comes up, CI862 at position 1 is removed and reinserted. After re-insertion, the CI862 at position 1 goes into fault and does not come up.</p> <p>The controller log shows the following:</p> <pre>Update driver instance Single 1[new:17 old:12] for Index: 1 Single CEM at pos 1 is reset by GIOC Framework[Stat: 0x00000400] a Hot removal, Hot insert message Update driver instance Single 1[new:18 old:17] for Index: 1</pre> <p>800xATRI-CN-4000-0002</p>	<p>Insert only one CI862 at a time, wait until it is up and running before inserting the next CI862.</p>
<p>The user changes the default setting of IN_16CKT for “open wire detection”, “Report fault” and “Short circuit detection” to “False”. After downloading the application to the controller, a Config Error message is shown in the unit status tab of the I/O module.</p> <p>800xATRI-CN-5012-002</p>	<p>Perform a power reset of the I/O module to remove this message.</p>

Table 79. Configuration Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>CI862 module goes to fault state when a baud rate of 38.4 KB is configured and downloaded from Control Builder.</p> <p>800xATRI-CN-5020-001</p>	<p>The CI862 does not support baud rate of 38.4 KB.</p>
<p>Signal range settings are lost for the 4IN2OUT block when an earlier version of a Control Builder project is upgraded.</p> <p>800xATRI-CN-5020-002</p>	<p>Hardware settings for the 4IN2OUT block has changed. Signal Range Channel 1- 4 has been split up in the following two new settings: Channel High Range and Low Range.</p>
<p>For IO_32CKT block, channel type can only be configured as either input or output.</p> <p>800xATRI-CN-5020-003</p>	<p>The IO_32CKT block does not support Open Wire diagnostics. Due to this the Tri-State option is not available for the parameter setting "Channel type" for this block.</p>
<p>Repeated re-configuration related to changing the position of CI862 with warm restart may lead to Controller crash.</p> <p>800xATRI-CN-5020-006</p>	<p>Perform a cold restart of controller after every re-configuration related to position of CI862 module. Do not perform repeated re-configuration related to CI862 in a running plant.</p>
<p>User removes both the CI862 in a redundant configuration by removing Primary first and then the other CI862. Configure Non-Redundant Configuration and download it to the controller without any CI862 at the configured position. CI862 does not start and does not communicate.</p> <p>800xATRI-CN-5020-007</p>	<p>User should make sure that CI862 is inserted at the configured position before downloading.</p>

Operation

[Table 80](#) lists the issues that may exist and affect operations of the system or product at time of release. Workarounds, clarifications, or helpful hints have been provided for each issue wherever possible.

Table 80. Operational Issues

Issue	Workarounds, Clarifications, and Helpful Hints
<p>When the CI862 modules are connected with CEX bus extender module BC810 and power reset is done to the controller, the CI862 modules do not come up after power reset.</p> <p>800xATRI-OL-5101-002</p>	<p>Reset the controller or conduct hotswap of CI862.</p>
<p>Module remains online even when block ID is changed using HHM. User will observe this scenario when position of TRIO blocks are changed while configuration is present in the controller.</p> <p>800xATRI-OL-5101-003</p>	<p>User should Reset the controller and download the application to CB. Then the error will be displayed correctly. The Block ID should not be changed in running plant.</p>
<p>User will observe communication problem during switchover in sequence because LAN redundancy is controlled by BSM (Bus Switching Module). Whenever a LAN is removed, BSM switches to the other LAN without seeing its status.</p> <p>800xATRI-OL-5101-004</p>	<p>User should make sure that Active LAN (indicated by Red LED present on BSM) is connected to CI862 module. The OSP setting for output modules should be set to Hold last value to prevent any disturbance in process during the switch over.</p>

Table 80. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>“PRIM” status LED OFF on both the CI862 modules in a redundant CI862 configuration. User will observe this scenario when Baud Rate of TRIO blocks are changed while configuration is present in the controller.</p> <p>800xATRI-OL-5101-005</p>	<p>User should Reset the controller and download the application to CB. Then correct behavior can be seen. Baud rate of CI862 modules should not be done in running plant.</p>
<p>CI862 module goes to fault after power reset of controller.</p> <p>800xATRI-OL-5101-006</p>	<ol style="list-style-type: none"> 1. Remove TRIO LAN communication cable. 2. Hot swap of the CI862 module.—CI862 module comes up to Run state. 3. Connecting back the LAN communication cable.
<p>Outputs go to OSP value during CI862 LAN switchover for a about 100 ms.</p> <p>800xATRI-OL-5101-007</p>	<p>The OSP setting shall be made hold last value to prevent any disturbance in process during the switch over.</p>
<p>If the user removes both CI862 module (or both become faulty) in a redundant CI862 configuration system, the TRIO blocks go to OSP values or holds to the last good value. In Control Builder, the last good value is shown. If one of the CI862 is replaced with a working CI862, the moment the TRIO blocks start communicating with the new CI862, for a short period, the input value goes to zero or the highest value in Control Builder.</p> <p>800xATRI-OL-5012-004</p>	<p>Use filter in application logic to prevent disturbance in process.</p>

Table 80. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>In a redundant CI862 system, if LAN A goes faulty (or CEX module), the communication switches to LAN B. If LAN B also fails, the BSM status shows that the communication switched back to LAN A. Since LAN A is not connected, all modules in that LAN goes to a Block failed status. If the user replaces LAN B (or CEX module) first, communication does not start on LAN B. The BSM still shows that LAN A is the active LAN.</p> <p>800xATRI-OL-5012-005</p>	<p>Monitor the BSM LED to identify where exactly the TRIO blocks are looking for communication. The LED in the BSM tells exactly where the blocks are looking for communication (if the LED is turned ON, the blocks are looking for communication in LAN B, else LAN A). Based on this information, plug in the new CEX module (or LAN) in the respective CEX position in online mode for all the modules in that LAN. Communication will resume.</p>
<p>If any I/O value of a TRIO block is forced using HHM, there is no specific indication in Control Builder that a value has been forced in that block.</p> <p>800xATRI-OL-5012-006</p>	<p>"HHM in Use" message will appear in Control Builder in online mode for all the TRIO modules in that LAN. PPA will show an event stating "Block n config changed by HHM" letting the user know something has changed.</p>
<p>In a redundant controller and redundant CI862 configuration, if LAN A goes faulty (or CEX module) the communication switches to LAN B. Communication with I/O modules is working properly. However, the CI862 module does not switch over. In this case, if the TRL cable between the primary and secondary CI862 modules becomes faulty, communication of the I/O modules in the LAN stops.</p> <p>800xATRI-OL-5012-007</p>	<p>TRIO does not support double fault (when the redundant CEX module is also failed). In Control Builder, a warning appears as soon as the TRL cable is disconnected or broken. After this, replace the faulty TRL with a working one.</p>

Table 80. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>When Blocks are communicating to LAN A, and if LAN A goes faulty no information to operator.</p> <p>800xATRI-OL-5020-001</p>	<p>The operator shall be notified with the event <Blocks have switched to LAN B, Check LAN A>. But if the other LAN (that is, in this case LAN B), through which Blocks are not communicating is removed/Faulty, no information is provided to Operator.</p>
<p>When Blocks are communicating to LAN B, and if LAN B goes faulty, no information is shown to operator.</p> <p>800xATRI-OL-5020-002</p>	<p>The operator shall be notified with the event <Blocks have switched to LAN A, Check LAN B>. But if the other LAN (i.e. in this case LAN A), through which Blocks are not communicating is removed/Faulty No information is provided to Operator.</p>
<p>After initial download, Latched Extended Status shows the message "Block Failed" for all the blocks.</p> <p>800xATRI-OL-5020-003</p>	<p>After initial download, either acknowledge latched extended status or issue the "Command 19" with the "Command Channel" for the concerned blocks.</p>
<p>The following messages may be received in the PPA:</p> <p>"Blocks have switched to LAN B, Check LAN A".</p> <p>"Blocks have switched to LAN A Check LAN B".</p> <p>TRIO has detected the LAN switch.</p> <p>800xATRI-OL-5020-004</p>	<p>When the LAN through which blocks communicates goes faulty/removed, blocks switch to the other LAN and user would be notified about the same through these events. Check the LAN connections and terminations.</p>

Table 80. Operational Issues (Continued)

Issue	Workarounds, Clarifications, and Helpful Hints
<p>A message may be received in the PPA as follows: “Check TRL Connection”. TRIO has detected that there is some fault with TRL Cable.</p> <p>800xATRI-OL-5020-005</p>	<p>When the TRL Cable connected between the redundant CI862 has been removed or has gone faulty, user is notified about the same with this event in PPA.</p>
<p>CI862 Redundancy Failover is not instantaneous, if it is triggered by removing the RCU Cable from the BC810 connected to backup Controller. This failover may take up to 4 seconds.</p> <p>800xATRI-OL-5020-006</p>	<p>Do not perform the CI862 switch over by removing the RCU cable from BC810. Instead, the hot swap of primary CI862 module can be done to perform switch over of CI862.</p>
<p>Simultaneous Hot Insertion of two CI862 modules will not work.</p> <p>800xATRI-OL-5020-007</p>	<p>Insert only one CI862 module at a time. Wait till it comes up, and then insert the other module.</p>
<p>Min, Max and Invert Functionality does not work for RTD and TC blocks.</p> <p>800xATRI-OL-5020-008</p>	<p>The settings related to Min and Max for RTD and TC blocks can be done by HHM manually.</p>

Miscellaneous

Table 81 list the problems or issues known to exist with the current release that do not fit into one of the other categories. A workaround, when possible, has been identified for each problem or issue.

Table 81. Miscellaneous Issues

Issue	Workarounds, Clarifications, and Helpful Hints
Online Help files are not available for TRIO. 800xATRI-MS-5010-005	For more information, refer to <i>800xA for TRIO/Genius Getting Started (3BUR002459*)</i> and <i>800xA for TRIO/Genius (3BUR002460*)</i> .

Revision History

This section provides information on the revision history of these Release Notes.

The following table lists the revision history of this document.

Revision Index	Description	Date
-	Version Published for 6.0.1	October 2015
A	Version Published for 6.0.1	November 2015

Updates in Revision Index A

The following table shows the updates made in this Release for 800xA 6.0.1.

Updated Section/Sub-section	Description of Update
Section 3 Known Problems	Updated the following subsections: <ul style="list-style-type: none">• System Installation• Base System• Central Licensing System• Application Change Management• Batch Management

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