System 800xA

Release Notes
Fixed Problems

System Version 5.1 Rev E

Power and productivity
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ABB

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Fixed Problems

System Version 5.1 Rev E

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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, firewall, 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 fixed problems for the latest revision of the System 800xA 5.1.

How Feature Packs Work in System 800xA?

Feature Packs are intended to release new features and functions in between system version releases. Feature Packs are intended as **add-ons** to an already available system version. Feature Packs allow a more agile response to the market requirements without revising or releasing a system version.

Users are not compelled to adopt the Feature Pack. At a new installation, they can choose to install the main version only, or to also add the Feature Pack. Those having an existing installation, can choose to stay on the main version, or to install the Feature Pack at any time. Once any Feature Pack is installed in a 5.1 system, the system has to stay on the Feature Pack track.

The System 800xA 5.1 Revision E and System 800xA 5.1 Feature Pack 4 Revision E are delivered as two separate install kits which does the complete installation for the respective cases. One to be used by System Version 5.1 plain system users, one to be used by Feature Pack users.

The Release Notes have one common part that applies for both use cases, which are the three documents *System 800xA 5.1 Revision E Release Notes Fixed Problems (2PAA114364*)* and *System 800xA 5.1 Revision E Release Notes New Functions and Known Problems (2PAA114363*)*, and *System 800xA 5.1 Feature Pack 4 Revision E Release Notes (2PAA109967-514)* that is applicable to the Feature Pack users only.

For more information on Feature Pack deliverable, see the *System Guide Technical Data and Configuration Information* (*3BSE041434**).

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. Terms that uniquely apply to this Release Note are listed in the following table.

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 latest revision of System 800xA Version 5.1.

This document lists the problems that have been fixed in this release since the previous release. The document contains additional notes that may be valuable to customers and service personnel working with the product.

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

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

Known problems are described in *System 800xA 5.1 Revision E Release Notes, New Functions and Known Problems (2PAA114363*)*, which contains the known problems that were previously identified in prior releases that have not been fixed in this release.

Products Participating in This Revision

The following products are participating in the latest revision of System 800xA 5.1.

- Automated Installation
- Base System
- System Services (Central Licensing Service, SMS and e-mail Messaging, and Diagnostics Collection Tool)
- Engineering Studio
- AC 800M
- PLC Connect
- Multisystem Integration
- IEC 61850
- Device Management FOUNDATION Fieldbus

- Device Management PROFIBUS & HART
- PC, Network and Software Monitoring
- Batch Management
- Information Management
- 800xA for Advant Master
- 800xA for AC 870P / Melody
- 800xA for DCI
- 800xA for Harmony
- 800xA for MOD 300

Rollup Information

The Table 1 lists the Rollups that were released after System Version 5.1 Rev D. The fixed problems contains a note, if that particular issue is also corrected in these Rollups.

Table 1. Rollups Released

Products	Rollup
Base System	5.1 RevD RU2 5.1 RevD RU1
AC 800M	5.1 RU3
SFC	SFCViewer RU1
Device Management FOUNDATION Fieldbus	5.1 Rev D RU5
System 800xA for Advant Master	5.1 RevD RU1

Table 1. Rollups Released

Products	Rollup
System 800xA for Harmony	5.1 RU3
System 800xA for Melody	5.1.0 RU4

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 to 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 New Functions and Known Problems (2PAA114363*)***:** Contains the known problems that were identified in the current revision of the System 800xA 5.1 Revision E release.

- *System 800xA 5.x System Software Versions (3BSE037782*):* Lists the rollups released for each Functional Area and product with each revision of System 800xA 5.x. It includes links to the rollups.

- *System 800xA, System Update Tool (2PAA106938*):* The System Update Tool (SUT) is a wizard for installing the rollups in a System Revision for System 800xA on a node by node basis.

- *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.

- *System 800xA, 800xA for AC 100 Release Notes (3BDS013981*)*: Contains the known and fixed problems of 800xA AC 100 in the current revision.

- *System 800xA, AC 100 OPC Server Release Notes (3BDS013982*)*: Contains the known and fixed problems of AC 100 OPC Server in the current revision.

Additional References

The following Release Note contains the new functions, known problems, and the fixed problems that were identified for the latest Feature Pack release.

System 800xA Feature Pack 4 Revision E Release Notes (2PAA109967*)

Product Support

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

Section 2 System Installer

This section details the Fixed Problems for System Installer that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision C

Table 3 lists the Installation issues that have been corrected in Automated Installation for 800xA 5.1 Revision C.

Table 2. Installation Issues

Issue	Correction or Fix
While uninstallation and installation of the ABB products from the System Update Tool the following error messages appears. **Windows Installer has stopped working.** OR **MSIxxx.temp**. 800xASYI-IN-5102-001	This problem has been corrected.

Fixed in 800xA 5.1

Table 3 lists the Installation issues that have been corrected since the current revision of 800xA 5.0 SP2 through 800xA 5.1 in System Installer.

Table 3. Installation Issues

Issue	Correction or Fix
Before installing 800xA for Melody and 800xA Harmony please read installation manuals. 800xASYI-IN-4100-001	This is not a problem. The Automated Installation instruction includes text communicating: for more information, refer to the installation instructions.
When installing System Installer there is a dialog asking if the user wants to install an unnamed unsigned ActiveX control. 800xASYI-IN-4100-003	This is not a problem. System Installer notifies the user to click **Yes** when this dialog appears.
When installing SQL (2000) on windows 2003 servers, one gets a warning message that *SQL Server 2000 SP2 and below is not supported by the version of windows*. 800xASYI-IN-4100-004	This is not a problem in 800xA 5.1.
DCI Configuration procedure that appears in the 800xA Configuration Wizard has changed. 800xASYI-IN-5000-001	This is not a problem in 800xA 5.1
Update using System Installer provides for a maintenance stop of 800xA base processes before the products shall be uninstalled. This step has in some cases failed. 800xASYI-IN-5010-001	This is not a problem in 800xA 5.1.

Table 3. Installation Issues (Continued)

Issue	Correction or Fix
During an update of 800xA 5.0 SP1 to SP2 or new installation of 800xA 5.0 SP2 system, the System Installer wants the user to close System Installer when updating the 800xA Base software respectively installing .NET Framework. 800xASYI-IN-5020-001	This is not a problem in 800xA 5.1.
When performing an upgrade from 800xA 3.1 and where the CLS Server is situated on the Domain Controller, System Planner will give a message that the Upgrade.ini file is incorrect. 800xASYI-IN-5010-009	This is not a problem in 800xA 5.1.
When updating a system from 800xA 5.0 SP1 to 800xA 5.0 SP2, it is important that nothing is reserved in the system. The Control Builder is typically used for making reservations. If the System Installer is used to update the system, the operation performed by Update System Extensions button in the Aspect Configuration Wizard may fail with a message that afW Configure finished with errors. The 800xA Configuration Wizard log file will include an error message indicating `Failed to Load Imports`. 800xASYI-IN-5020-002	This is not a problem in 800xA 5.1.
During update the Diagnostics Collection Tool and Diagnostics Collection Tool Plug-ins will not be uninstalled automatically. 800xASYI-IN-5020-004	This is not a problem in 800xA 5.1.

Table 3. Installation Issues (Continued)

Issue	Correction or Fix
During update, the Harmony SemAPI component will not be uninstalled. 800xASYI-IN-5020-006	This is not a problem in 800xA 5.1.

During update, uninstallation of some products may fail. The following message will appear before the product installation starts:
 	
`ABB Central Licensing System Extension`
 	
`Do you want to uninstall?`
 	
800xASYI-IN-5020-009
	This is not a problem in 800xA 5.1.

On rare occasions, the Batch Management software installation fails (stops functioning with 0 seconds remaining) when using System Installer to update Batch Management from Version 5.0 SP1a to Version 5.0 SP2. 800xASYI-IN-5020-011	This is not a problem in 800xA 5.1.
While updating from 800xA 5.0 SP1a to 800xA 5.0 SP2, during installation of Batch Management Primary Server software, a Question dialog appears asking the following: `Do you want to initialize your Batch Management Runtime Database?` 800xASYI-IN-5020-013	This is not a problem in 800xA 5.1.

Table 3. Installation Issues (Continued)

Issue	Correction or Fix
MSIEXEC.exe Application Error may be seen in some cases after uninstalling products during an update from 800xA 5.0 SP1a to 800xA 5.0 SP2. 800xASYI-IN-5020-014	This is not a problem in 800xA 5.1.
The System Verifier Tool may fail to detect Microsoft Office SP1 correctly. 800xASYI-IN-5020-015	This problem has been corrected and is not a problem in 800xA 5.1.
System Installer appears to update/reconfigure the Users and User Groups during an update from 800xA 5.0 SP1a to 800xA 5.0 SP2. 800xASYI-IN-5020-016	This is not a problem in 800xA 5.1.
System Planner does not provide an option to plan a redundant Multisystem Integration Server. 800xASYI-IN-5020-018	This problem has been corrected and is not a problem in 800xA 5.1.
The System Verifier Tool may hang after clicking **Install** for the ASP.net mapping. 800xASYI-IN-5020-019	This problem has been corrected and is not a problem in 800xA 5.1.
On rare occasions, the System Installer may not install Central Licensing System software, but the System Installer status indicates successful installation of Central Licensing System software. 800xASYI-IN-5020-020	This problem has been corrected and is not a problem in 800xA 5.1.

Table 3. Installation Issues (Continued)

Issue	Correction or Fix
During an update from 800xA 5.0 SP1a to 800xA 5.0 SP2, ABB Base Software for Soft Control will not be installed. 800xASYI-IN-5020-021	This is not a problem in 800xA 5.1.
The System Planner may show an Unhandled Exception on the Device Management Options Wizard System page if the **Read License File** check box is enabled in the previous page. Enabling this check box allows the .sla file to be read as input to the System Planner. This has occurred in cases where 800xA for AC 800M **is not** Included in the 800xA System being planned. 800xASYI-IN-5020-023	This problem has been corrected and is not a problem in 800xA 5.1.
While using System Installer to update/upgrade the 800xA System, multiple ABB 800xA for DCI installation option check boxes will be selected in the Product Installation page. 800xASYI-IN-5020-024	This is not a problem in 800xA 5.1.
Aspect Configuration pages to install additional Device Types has wrong DVD number. 800xASYI-IN-5020-025	This problem has been fixed and is not a problem in 800xA 5.1.
During Update/Upgrade using System Installer, ABB 800xA Batch for DCI will not be installed. 800xASYI-IN-5020-026	This is not a problem in 800xA 5.1.

Table 3. Installation Issues (Continued)

Issue	Correction or Fix
On rare occasions during installation of ABB 800xA for DCI, **InstallDriver Module** errors are seen. 800xASYI-IN-5020-027	This is not a problem in 800xA 5.1.
Installation from a network share on Windows Server 2003 will require the user to confirm the installation of some products. 800xASYI-IN-5000-004	This is not a problem in 800xA 5.1 as Windows Server 2008 is used and Protected Mode is disabled.
HART Multiplexer must be installed under the Service Account for correct setup of DCOM settings. 800xDPH-IN-5000-002	This problem has been corrected.
During Update or Upgrade the PNSM server will not be recognized by the System Installer. 800xASYI-IN-5020-007	This problem has been corrected.
System Installer will not install ABB Engineering Studio DCT Plugin. 800xASYI-IN-5020-010	This is no longer a problem in 800xA 5.1. The Engineering Studio DCT plugin is no longer a separate install.

Section 3 Base System

This section details the Fixed Problems for Base System that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 4, Table 5, and Table 6, lists the Administration, Configuration, and Operational issues that have been corrected in Base System for 800xA 5.1 Revision E.

Table 4. Administration Issues

Issue	Correction or Fix
When taking Maintenance Backups in large 800xA systems there is a risk that the backup fails with an out of memory error message. 800xASYS-AD-5025-001	This problem has been corrected.

Table 5. Configuration Issues

Issue	Correction or Fix
Dragging objects to the Reference Tool in Plant Explorer may fail if the size of the dragged object is too large. 800xASYS-CN-5102-001	This problem has been corrected.

Table 6. Operational Issues

Issue	Correction or Fix
Sometimes logover does not work. causing the trend traces to freeze. 800xASYS-OL-5104-026	This problem has been corrected.
Improve the diagnostic possibilities when analyzing workplace stability and performance issues. 800xASYS-OL-5104-005 800xASYS-OL-5140-069	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
If the RNRP filter is enabled, the System Status Service may incorrectly indicate NODE DOWN status for the local node in a single node system. A system alarm "Connection Down" will be issued at reboot of the single node server. 800xASYS-OL-5100-069	This problem has been corrected.
The Basic History service may restart when querying a very large time span of data from external historian (like IM) through a Trend Display. 800xASYS-OL-5102-048	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
Line break of text is not supported in PG2 Aspect View Button. 800xASYS-OL-5102-014 800xASYS-OL-5102-015 800xASYS-OL-5102-016	The following improvements have been made to the PG2 Aspect View Button: • Line Break of displayed text is now supported • Right click will now bring up context menu of referenced object. • Improved possibilities to align background images These improvements are already included in 5.1 FP4 RevD. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
The workplace can crash when navigating between displays. In many of the observed crashes PG2 Displays have been involved. 800xASYS-OL-5103-007 800xASYS-OL-5025-007 800xASYS-OL-5102-033	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
The workplace can crash when navigating between displays. In many of the observed crashes PG2 Displays have been involved. 800xASYS-OL-5104-019	This problem has been corrected.
Viewing PG2 Graphic Displays that receive data for some properties, but do not receive any initial data for the other properties leads to high memory usage. 800xASYS-OL-5102-030	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Viewing PG2 Displays for a long duration leads to high memory usage. If the displays contain runtime errors it may eventually crash the workplace. 800xASYS-OL-5102-031	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
In rare cases, a Multi-Screen workplace may start with blank screens. 800xASYS-OL-5141-031	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
After bringing up an overlap display via the context menu of a base display the first click on an Aspect View Button will not activate anything. The second and following click on the Aspect View Button will work as expected. This problem is introduced in 5.1 RevD and 5.1 FP4. 800xASYS-OL-5140-049	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
Some Faceplates have an Alarm Control showing the alarm status for the object. When accessing the context menu of the Alarm Control in an overlapped Faceplate there is a risk that a mouse click is transferred to an underlying PG2 Display or Faceplate. If the underlying display has a control that responds on mouse click and is positioned directly under the context menu, the control can be activated. This problem is introduced in 5.1 RevD and 5.1 FP4. 800xASYS-OL-5140-050	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
Workplace and Graphics Editor may crash due to initialization problems in the PG2 Graphic Displays. 800xASYS-OL-5101-098	This problem has been corrected.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
The Alarm Manager can crash if corrupt data is stored in an aspect. The alarm system works as expected upon a restart of the Alarm Manager. 800xASYS-OL-5140-029	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
A request for data from the Trend Display that leads to a very large number of samples may cause the Basic History service to crash due to running out of memory. 800xASYS-OL-5102-035 800xASYS-OL-5110-068	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
If the position or size of a PG2 Graphic item is defined by using the Extent out terminal of the Graphic item, The Extent out terminal is set to 'No value'. This might lead to either the Graphic item is not visible or is not positioned correctly or is assigned the wrong size. This error is introduced in 5.1 RevD. 800xASYS-OL-5104-004	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Memory leakages may occur during Multisystem Integration upload, causing the AfwRAC process to crash and the upload to fail. 800xASYS-OL-5110-069	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Trend Display does not show dotted lines for bad quality data when the Trend Template are configured for binary signals with setting Enable Binary. 800xASYS-OL-5140-053	This problem has been corrected.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
On a few occasions the Display Bar shortcuts in Operator Workplace have stopped working with a script error pop up dialog. 800xASYS-OL-5140-068	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
The High Range and Low Range values in the trend disappears once the Visible column is unchecked and checked again. 800xASYS-OL-5140-062	This problem has been corrected.
The Ruler movement buttons do not work properly when the "Sort binary area" is enabled in the Trend Template. 800xASYS-OL-5140-061	This problem has been corrected.
Sometimes the Workplace hangs when no response is given to the save dialog box after changing the configuration in the trend display when a log over is performed. 800xASYS-OL-5102-038	This problem has been corrected. In the Release Notes for RU2 the issue number was wrongly stated as 800xASYS-OL-5102-028. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
The Trend Display vertical grid lines may disappear after setting the 'Selected Time' field. 800xASYS-OL-5101-042	This problem has been corrected.
The time span value is not shown properly in the Trend Display Aspect after clicking the Left or Right Scope Button. 800xASYS-OL-5103-002	This problem has been corrected.
On a few occasions the Operator Workplace has crashed when it reverts to inactivity user after log over. 800xASYS-OL-5140-045	This problem has been corrected.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
No tooltip is displayed when hovering over a trend curve in Trend Displays. This happens only if the function Auto-Scroll on Scroll Position is activated. 800xASYS-OL-5140-086	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2 and 800xA Base 5.1 FP4.
Faceplates might show wrong View Selection buttons if Faceplates with different number of views are opened in sequence. This problem was introduced in 5.1 RevD and 5.1 FP4 RevD. 800xASYS-OL-5140-076	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
After a drag operation on the background of a PG2 display the first click on an Aspect View Button will not activate anything. The second click on the Aspect View Button will work as normal. 800xASYS-OL-5140-057	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
Whenever the Workplace application is in Operator Workplace mode and the Windows Taskbar is set to Auto Hide, performing any of the below operations: • Open Task Manager • Workplace Print And then opening an Overlap window will cause the Task Bar to be shown. 800xASYS-OL-5110-007	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
The new display can get distorted, when changing the display from a PG2 display to another aspect in the Operator Workplace. This problem only effect a few aspects views implemented in .NET. This problem was introduced in 5.1 RevD and 5.1 FP4 RevD. 800xASYS-OL-5104-006	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
If a PG2 Generic Element by mistake is positioned on the top object in the Graphics Structure all PG2 aspects will stop working. 800xASYS-OL-5140-017	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
Sometimes the write operation, configured to occur at call-up of a PG2 Display by using a Property Writer with the Event property set to OnCreate, is not performed. This problem was introduced in 5.1 RevD and 5.1 FP4 RevD. 800xASYS-OL-5140-078	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.
Dynamic values in displays and faceplates based on Process Graphics 2 (PG2) may show wrong values. This problem is introduced in 5.1 RevD and 5.1 FP4 RevD. 800xASYS-OL-5140-059	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1. Product Alert: 3BSE078347
Acknowledge all visible alarms is a function available in PG2 Displays. In some situations the workplace can be inoperable for up to 30 seconds when this function is activated. 800xASYS-OL-5101-063	Performance improvements have been done to minimize the impact when the 'Acknowledge all visible alarms' function is executed. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
The Workplace may hang when carrying out a wild card search using the Quick Find Tool. 800xASYS-OL-5102-044	The Quick Find Tool is now changed to show a maximum of 20 items. There is an indication at the bottom of the list if more items are available. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Each time the Quick Find Tool is used unnecessary messages are logged to the Event List when the audit trail function is activated. 800xASYS-OL-5102-045	This problem has been corrected.
Any problem in Find may hang or crash the workplace application. 800xASYS-OL-5141-060	Find Tool is launched as a separate process in order to avoid workplace hang or crash. Since the new Find Tool is no longer an overlap and is separated from the workplace application process, the 'stacking order' view class value for the new Find Tool does not have any effect. The new Find Tool will not be part of the Alt+Tab sequence of workplace overlaps. To configure the Ctrl+F hotkey for the New Find Tool: 1. Open Hot keys aspect for any workplace in the workplace structure. 2. Select Ctrl + F hotkey in the hot keys list and then remove. 3. Add the hotkey by entering the combination Ctrl + F in the hot key area with context "global" and with Action "Execute Verb". 4. In 'Aspect' browse to the Global verbs aspect in the Web system workplace. 5. Under Verb select 'Show Find Tool'. 6. Add the newly Configured Find Tool Hotkey in the hotkeys list aspect.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
Quick find tool returns incorrect results when using wildcard search. For example: searching for "b*" sometimes returns results that do not start with a 'b'. 800xASYS-OL-5104-025	This problem has been corrected.
Sometimes the 'High Range' and 'Low Range' in the Trend Displays are shown as 100 and -100 respectively instead of the configured values. 800xASYS-OL-5140-060	This problem has been corrected.
Restarting a Connectivity Server running the redundant Basic History service might lead to logging of incorrect data. 800xASYS-OL-5140-079	This problem has been corrected.
In Trend Display, the selected Ruler indication does not work when using Aero Theme in Windows 7. 800xASYS-OL-5140-063	This problem has been corrected.
A small memory leak can occur in the operator workplace while opening overlaps. 800xASYS-OL-5102-028	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Using blinking colors in PG2 Graphic displays may cause a memory leak in the Operator Workplace. 800xASYS-OL-5030-001	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
The faceplate pin icon shows incorrect status when an operator keyboard is used to pin the faceplate. 800xASYS-OL-5141-002	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
The Workplace can crash when viewing the **Service Structure > Lock Server > Lock Status View** aspect. 800xASYS-OL-5141-005	This problem has been corrected.
On a few occasions the Operator Workplace has crashed with an error message "AfwWorkplaceApplication module stopped working" 800xASYS-OL-5140-091	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
At times the engineering units are missing in the trend table when bringing up a Trend Display. 800xASYS-OL-5141-011	This problem has been corrected.
Need better diagnostics and logging possibilities when analyzing issues in the workplace. 800xASYS-OL-5140-092	This problem has been corrected. Improved diagnostics and logging has been added to Workplace application. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
A subset of events might be missing in the event list after the following scenario: 1) Apply column filter 2) Stop updates 3) Start updates 4) Clear column filter **Note**: The events stored in the Event Storage are not affected, only the current view of the event list. 800xASYS-OL-5140-082	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
When audible alarm is used in Operator Workplaces executed on a Windows Remote Desktop with remote sound feature turned on, a thread leak will occur in the workplace when playing the audio files. This problem is also described in Product Bulletin 3BSE075737. 800xASYS-OL-5140-019	Audible Alarms now support an additional player that can be used together with the remote desktop. To avoid the issue a configuration change is required. In the Plant Explorer, browse to: Library Structure:Alarm & Event:Audible Alarm Configuration:Audible Alarm Sound Configuration Select ABB.AdvAeAudibleAlarmAlarmMCIPlayer in the Player drop down menu and press apply. Alarm priority sound settings Player ABB.AdvAeAudibleAlarmMCIPlayer **Note**: ABB.AdvAeAudibleAlarmMCIPlayer supports WAV and MP3 files (MP3 support is limited to MP3 files without ID3 tag version 2, ID3v2).
Events that are defined to be executed when a **PG2 Graphic Display** is closed are not triggered. This problem was introduced in 800xA Base 5.1 RevD. 800xASYS-OL-5141-006	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Security Definition update causes expensive reevaluation of all active OPC subscriptions. 800xASYS-OL-5110-071	This problem has been corrected.
Long call up time for PG2 Faceplates containing non graphic aspects. 800xASYS-OL-5141-010	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.

Table 6. Operational Issues (Continued)

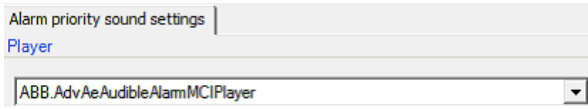| Issue	Correction or Fix
External Alarm pulse functionality can stop working for the Audible alarm property. This happens if the Audible alarm property is configured with a pulse time and the property for some reason remains set after the pulse time. Any consecutive writes to set the property will fail and the property remains set. 800xASYS-OL-5024-104	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
On a few occasions the "Resize failed: Unknown Error" System Alarm has been reported from customer sites. The error is generated by the Event Storage service.It is generated when the service has a problem allocating the disk space. This will not result in any events being lost. 800xASYS-OL-5110-072	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
When changing colors in a Logical Color Definition aspect there is a small risk that the Operator Workplace can crash. 800xASYS-OL-5140-100	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
The horizontal scroll bar in the Operator Workplace Alarm Band does not work correctly when configured to display a single alarm line. 800xASYS-OL-5104-009	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
The Operator Workplace may hang when clicking one of the Ruler movement buttons directly if an invalid time scope is entered in the Trend Display. 800xASYS-OL-5024-084	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
Sometimes the Process Graphics (PG2) tool tips show the aspect name instead of the object name. 800xASYS-OL-5024-082	This problem has been corrected.
The Operator Workplace might crash if no default printer has been configured when printing a PG2 Display using the PG2 print option. 800xASYS-OL-5102-050	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Automatic silence of External Alarms will not work if the alarm is removed from the Alarm List used for External Alarms before it was acknowledged. 800xASYS-OL-5140-031	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
There is a small risk that an Operator Workplace can crash when it is configured to show a PG2 displays at startup. 800xASYS-OL-5141-018	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
The Alarm Band might show the wrong color (priority) when alarms are shelved. 800xASYS-OL-5140-055	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
The ruler value in the Trend Displays can be wrong for the binary signals when momentary treatment is used. 800xASYS-OL-5141-036	This problem has been corrected.
Sometimes the consistency checks report false detections of invalid references. 800xASYS-OL-5104-010	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
The log over dialog Change User will remain active until actively closed by the user. 800xASYS-OL-5141-028	The dialog closes automatically after 1 – 2 minutes. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Searching in Element Explorer doesn't work or hangs the Process Graphics (PG2) Editor if the search results matches many objects. 800xASYS-OL-5104-015	The search results are limited to displaying the first 20 objects that match the search criteria.
The Process Graphics (PG2) trend primitive causes a memory leak when it's subscription references cannot be resolved. 800xASYS-OL-5104-017	This problem has been corrected.
The security settings do not affect the External Alarm Configuration aspects, resulting in any user silencing the external alarms. 800xASYS-OL-5103-015	This problem has been corrected.
The AspectViewInvoker used in AspectView Wrapper does not work. This problem was introduced in 800xA Base 5.1 RevD RU1 and 800xA Base 5.1 FP4 RevD RU1. It is not a problem in 6.0. 800xASYS-OL-5141-052	This problem has been corrected.
A memory leak can cause the Operator Workplace to crash. 800xASYS-OL-5104-021	This problem has been corrected.
Sometimes the Trend Display can show two vertical axis side by side. 800xASYS-OL-5140-088	This problem has been corrected.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
The Trend Display may not display the current value after clicking the '**Move Scope Right**' button. 800xASYS-OL-5140-085	This problem has been corrected.
Sometimes when a redundant Aspect Server is restarted false Node Down alarms can be generated from one of the Servers. 800xASYS-OL-5103-019	This problem has been corrected.
The find function in the Process Graphics (PG2) Builder Element Browser often fails to find the correct aspects. 800xASYS-OL-5104-012	This problem has been corrected.
When a DEW (Direct Entry Window) is invoked in PG2 it is possible to use the mouse wheel to change the value. It is only possible to use the mouse wheel when the cursor is over the item that hosts the DEW or the DEW itself. It should be possible to have the cursor anywhere inside the graphic aspect and use the mouse wheel. This problem is introduced in 5.1 FP4 and 5.1 RevD. 800xASYS-OL-5141-071	This problem has been corrected.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
Hardware events from AC800M always have the same Source Name and Condition Name, the only changes being in the time and messages. In a very fast system, such as PM891, more then one Hardware event can be generated in a millisecond. If this happens the events with same time stamp will be regarded as same event by the event list and rejected. The Status viewer and the project explorer should always reflect the correct update. 800xASYS-OL-5141-077	The problem has been corrected. The events with same time stamp are now treated as a new event.
On rare occasions data retrieval fails for some basic history logs. This happens when the redundant connectivity servers are not fully synchronized. 800xASYS-OL-5102-041	New Applog operation has been provided to force the synchronization of the log. Contact ABB technical support for details and assistance.
Trend Display Seamless retrieval shows no data for the time duration when a BADTIME stamp is inserted into the Direct OPC Log. 800xASYS-OL-5104-022	New Applog operation has been provided to remove the BADTIME stamp from the Direct Log. Contact ABB technical support for details and assistance.
Some times when closing an already saved Trend, an extra confirmation dialog appears, which asks whether to save the Trend again. 800xASYS-OL-5140-014	This problem has been corrected. **Note**: A correction for the issue has been included in 5.1 Rev D but it was not complete.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
The Operator Workplace overlap replace strategy needs to be more flexible. 800xASYS-OL-5140-072	A new Workplace profile value called "Replace Overlaps on Different Screen" has been introduced. Enabling the profile value Replace Overlaps on Different Screen produces the following behavior for overlaps on a multiple screen workplace; when the screen trait for the respective view class is not set or the value of the screen trait is 0: 1.With the Replacement Strategy set to **Replace**, open an overlap of any view class (for example, a Faceplate) and move the overlap to another monitor. 2.Go back to the original screen and open another overlap of the same view class (for example, a Faceplate). This will replace the overlap that was opened in Step 1. If this profile value is not enabled, the normal behavior of overlaps on a multiple screen workplace is produced. 1.With the Replacement Strategy set to **Replace**, open an overlap of any view class (for example, a Faceplate) and move the overlap to another monitor. 2.Go back to the original screen and open another overlap of the same view class (for example, a Faceplate). This will open a new faceplate on the original screen or the screen mentioned in the screen trait of the corresponding view class if the screen trait value exceeds 0. Enabling this profile value will not have any effect if the Screen Trait of the respective view class is set (that is, greater than 0), because the precedence is given to the Screen Trait value.

Table 6. Operational Issues (Continued)

Issue	Correction or Fix
Navigating between displays in the Operator Workplace might make it crash. 800xASYS-OL-5141-012	This problem has been corrected.
When a LateBound Property function is configured to the TraceCurrentValue property of PG2 Trend Primitive, there will be high number of subscriptions setup to Basic History. This may lead to performance problems of Basic History. 800xASYS-OL-5141-054	This problem has been corrected.

Table 7. Miscellaneous Issues

Issue	Correction or Fix
PG2 Displays containing a large number of PG2 trend primitives will cause high CPU usage on the workplace application. This problem was introduced in 5.1 Rev A. 800xASYS-MC-5101-002	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU1.

Fixed in 800xA 5.1 Revision D

Table 8, Table 9, Table 10, and Table 11 lists the Administration, Configuration, Operational, and Miscellaneous issues that have been corrected in Base System for 800xA 5.1 Revision D.

Table 8. Administration Issues

Issue	Correction or Fix
On a few occasions, alarms in open Alarm Lists can become invisible during an Online Update from any revision releases of 800xA 5.1 to 800xA 5.1 FP4. The alarms are displayed with same color as the background. This problem can also occur when an Online Update is done from any revision releases of 800xA 5.1 to 800xA 5.1 FP1 or 800xA 5.1 FP3. 800xASYS-AD-5110-001	This problem has been corrected.

Table 9. Configuration Issues

Issue	Correction or Fix
Only one user at a time can edit a PG2 Display using the Remote Desktop. When a second user starts a Remote Desktop connection against the same Windows 2008 Server and try editing a PG2 Display, the Graphics Builder will crash. 800xASYS-CN-5140-005	This problem has been corrected.
Graphics Builder crashes while saving a PG2 Display that contains a placeholder and has the PresentationMode set to anchored. 800xASYS-CN-5140-012	This problem has been corrected.

Table 9. Configuration Issues (Continued)

Issue	Correction or Fix
Composite resource reference (For example, Logical Brush configured to Logical Color) in NLS Resource Data aspect may cause the Smart Client PG2 Data Provider to crash. 800xASYS-CN-5101-014	This problem has been corrected.
Enhancement in the PG2 Real DEW input field for providing functionality to auto invoke the DEW and keep it open. 800xASYS-CN-5101-026	
In Multisystem Integration, the AfwRAC Process may crash due to memory leak during an upload to subscriber system. 800xASYS-CN-5110-014	This problem has been corrected.
For the node status alarms to work properly, the node numbers must uniquely identify a node within the whole network. Two different nodes are not allowed to use the same node number even if they are located on different network areas and even if they belong to different 800xA Systems. 800xASYS-CN-5110-019	Improvements are done to use the same node number for different networks.
Libraries opened in Solution Libraries window disappear after the PG2 Graphics Builder is closed. They must be opened every time the PG2 Graphics Builder is called up. 800xASYS-CN-5025-003	This problem has been corrected. Now the user no not have to reopen the Library after restarting the PG2 Graphics Builder.
There is a small risk that the Workplace can crash when Object Locking is used by Operators. 800xASYS-CN-5024-053	This problem has been corrected.

Table 10. Operational Issues

Issue	Correction or Fix
Sometimes the Alarm List shows GUIDs as source name. 800xASYS-OL-5140-001	Improvements have been done to resolve the GUID to Object Name if possible.
When using Zoom Tool in Trend displays on Quad Displays containing PG2 Displays, Aspect View Wrappers in the PG2 Displays can disappear. 800xASYS-OL-5140-005	This problem has been corrected.
In some situations when the *AfwDsOpcSurrogate.exe* is used by third party OPC Clients to read and write 800xA OPC values, the CPU load may increase. 800xASYS-OL-5140-008	This problem has been corrected.
When using Windows Aero theme, the *Selected Time* scroll bar in Trend Displays, disappear after selecting the ruler. 800xASYS-OL-5140-010	This problem has been corrected.
In some situations, the Horizontal ruler in Trend Displays does not function correctly. 800xASYS-OL-5140-011	This problem has been corrected.
The Trend Display time scope entry does not work properly when the Trend is placed in a PG2 Aspect View Wrapper and the language set in the System is a language other than English. 800xASYS-OL-5140-012	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
Some times when closing an already saved Trend, an extra confirmation dialog appears, which asks whether to save the Trend again. 800xASYS-OL-5140-014	This problem has been corrected.
When audible alarms are used through Microsoft Remote Desktop (RDP) with remote sound feature turned on, a thread leak will occur when an audible alarm sounds. This leakage will accumulate over time and may finally crash the workplace. 800xASYS-OL-5140-019 Product Bulletin: 3BSE075737	This problem has been corrected. **Note**: This problem has been corrected in 800xA Base 5.1 RevD RU2.
Dynamic values in displays and faceplates based on Process Graphics 2 (PG2) may stop updating (freeze) without any other visual notification, warning or system message. 800xASYS-OL-5103-003 Product Alert: 3BSE077203	This problem has been corrected.
In some situations, shared expression variables in PG2 Displays cannot be used to control visibility. 800xASYS-OL-5130-004	This problem has been corrected.
Memory leak has been observed in faceplates. 800xASYS-OL-5130-010	This problem has been corrected.
When the Event List without toolbar is used in the Application Bar or Status Bar, the filter becomes very large and affects the layout of the rows. 800xASYS-OL-5130-012	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
On a few occasions, it has been observed that an Operator can operate objects from Faceplates without locking the object even though the system is configured with Lock Required. 800xASYS-OL-5130-018 Product Bulletin: 3BSE077147	This problem has been corrected.
When using the *Print Trend* function in the Trend Display, the Icons, Object Description, Treatment, and Trace Color are not printed correctly. 800xASYS-OL-5110-031	The problem has been corrected.
If a Graphic Display subscribes for OPC items from different connectivity, all subscriptions will fail when one of the connectivity does not answer. 800xASYS-OL-5110-038	The problem is corrected and now the subscription from connectivity that are OK will be presented.
Using Symbol Factory symbols in Workplace startup displays, can cause the Workplace Status bar to be empty. 800xASYS-OL-5110-040	This problem has been corrected.
When using the *Print Trend* function in a Trend Display, the last column of the table may be truncated in certain screen resolution. 800xASYS-OL-5110-042	This problem has been corrected.
Graphic Elements configured with dynamic values (for example, Expression variables) for Width and Height will get 0 extent. 800xASYS-OL-5110-043	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
OPCHDA data can be manipulated from Data Direct when a user is having the Configure permission. 800xASYS-OL-5110-044	Insert, Delete, or Modify History Data Operation IDs are added newly to the Log Configuration aspect to make it possible to connect them to higher security permissions like Administrate.
Double-click the Audible Alarm Button to silence audible alarm can cause the Workplace to crash. 800xASYS-OL-5110-046	This problem has been corrected.
During navigation between displays in the Workplace, the Workplace may crash. 800xASYS-OL-5110-049	This problem has been corrected.
In Trend displays, the engineering units disappear for 5 to 30 seconds in High/Low range columns and Trend axis when called up. 800xASYS-OL-5110-050	This problem has been corrected.
On a few occasions, it has been observed that silencing an Audible Alarm using the Silence Audible Alarm button does not function. 800xASYS-OL-5110-055	This problem has been corrected.
The Operator Workplace will show different problems when the AfwWorkplace process consumes to much memory. 800xASYS-OL-5100-057	This problem has been corrected to allow the AfwWorkplace process to utilize more memory in nodes running 64-bit operating system. **Note:** Even if more overlaps are possible on the Operator Workplace, it is still important that all system capacity parameters are within the limits. see *System 800xA System Guide Technical Data and Configuration (3BSE041434*)* for more information.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
A memory leakage has been observed when using Process Object Locking in the 800xA system. This can cause memory leak in the Workplace and the AfwRAC process running on a Subscriber node in a Multisystem Environment. 800xASYS-OL-5110-059	This problem has been corrected.
Alarm Band can show wrong color (priority) when alarms are shelved. 800xASYS-OL-5110-063	This problem has been corrected.
Alarm filters are not able to handle Alarm Attributes of type VT_I2. 800xASYS-OL-5110-064	This problem has been corrected.
When navigating between PG2 displays, a black background is presented sometimes for a short time before the new display is presented. 800xASYS-OL-5103-006	This problem has been corrected.
In some situations, Graphic Elements in PG2 Displays are not highlighted when cursor is positioned over it. 800xASYS-OL-5102-004	This problem has been corrected.
In some situations, the alarm counter in Alarm Bands and Alarm Lists can show wrong value. 800xASYS-OL-5102-012	This problem has been corrected.
The Backup process cannot utilize the extra memory available for process in Windows 64-bit architecture. 800xASYS-OL-5102-019	In Windows 64-bit architecture, the Backup process can now use 4 GB private memory.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
When querying very large time span of data from external historian (like IM) through a Trend Display, the Basic History service may restart. 800xASYS-OL-5102-023	This problem has been corrected.
Print of a PG2 Display given from context menu gets cropped when the default orientation of the printer is set to Landscape. 800xASYS-OL-5101-058	The support for printing PG2 Display using context menu is extended to A3 Page setup.
The text in Alarm Line in the Workplace Application Bar sometimes goes black when there are no active alarms. 800xASYS-OL-5101-061	This problem has been corrected.
The Alarm List sometimes can flicker when alarms are blinking. 800xASYS-OL-5101-062	This problem has been corrected.
Lock indications around elements in a Graphic Display are randomly not shown in PG2 Displays. 800xASYS-OL-5101-065	This problem has been corrected.
The Event Attribute Object Extension aspect lacks support for Bulk Data Management. 800xASYS-OL-5101-068	This problem has been corrected.
There is a problem to open a faceplate on Fixed Display when the display is on a screen other than screen 1, that is, the display is on screen 2, screen 3, and so on. 800xASYS-OL-5101-072	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
If the values of the source properties in a Property Transfer expression are static or change very rarely and the value of the target property has been changed by some other means, the destination property might have the wrong value until the value of the source properties have changed again. 800xASYS-OL-5101-074	A feature has been added to the Property Transfer function to perform cyclic transfers of property values regardless of the change in values of the source properties. This feature has a configurable rate and is possible to enable/disable.

Table 10. Operational Issues (Continued)
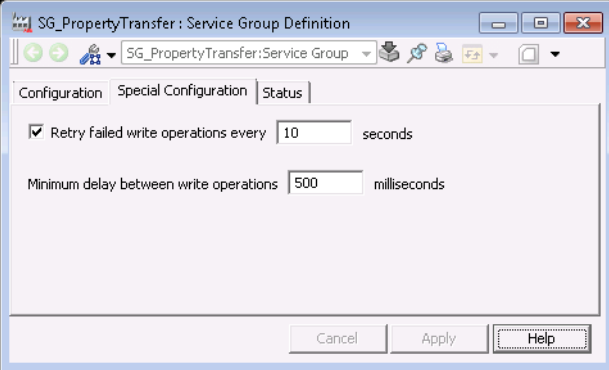
Issue	Correction or Fix
Continued. 800xASYS-OL-5101-074	The following figure shows the *Special Configuration* tab of the *Property Transfer* service group object in the Service Group Definition aspect. **Retry failed write operations every <XX> seconds**- This check box is selected by default. All the failed write operations will be rewritten at the specified time interval (in this example every 10 seconds) until the write operations have succeeded. If the selection of this check box is cleared, the write operation will be performed when new property values are received from the source system. **Minimum delay between write operations <YY> milliseconds** - The default value is 500 milliseconds. This is used to delay write operations so that they are not performed too frequently. Frequent write operations may overload the target system. If the value is 0 the write operations will be performed as quickly as possible.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
Trend displays with the *Auto Scroll on scroll position* option enabled in the Trend Template, can cause Log Over to fail. 800xASYS-OL-5101-082	This problem has been corrected.
Drag and drop of a new object to Trend Display resets the time scope to current. 800xASYS-OL-5101-083	This problem has been corrected.
In some situations, a PG2 Display containing a Property Writer with the Trigger property configured, can cause the Workplace to crash. 800xASYS-OL-5101-084 800xASYS-OL-5101-023	This problem has been corrected.
On enabling *Auto-scroll on Scroll Position* in the General tab of the Trend Template, the trend grid lines appear on top of curves. 800xASYS-OL-5101-086	This problem has been corrected.
For larger timespans, the trend traces are not shown in the PG2 Trend primitive after invoking the PG2 Display, until the cursor is hovered over the trend primitive. 800xASYS-OL-5101-087	This problem has been corrected.
When bringing up Trend displays with multiple trend curves, the Workplace can freeze for a few seconds because of high CPU load. 800xASYS-OL-5101-088	This problem has been corrected.
Use of multiple instances of'*' in the Find Tool in queries can cause performance problems on the system. 800xASYS-OL-5101-091	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
Accessing Alarm List properties from Property Transfer will crash the Alarm Manager. 800xASYS-OL-5101-092	This problem has been corrected.
The Workplace Hot keys might stop working in some situations. In such situations, the Workplace must be restarted. 800xASYS-OL-5101-095	This problem has been corrected.
A PG2 Display is not printed properly while printing from the Workplace Print Screen tool. 800xASYS-OL-5100-045	This problem has been corrected.
The OPC Uploader inserts existing objects with wrong object types into the Control Structure. 800xASYS-OL-5100-056	This problem has been corrected.
Property translation can leak memory in some situations. 800xASYS-OL-5100-063	This problem has been corrected.
PG2 Displays will be corrupted if the display contains a placeholder and at least one of the property has a value that is configured on the instance and contains a resource reference. It is not possible to view the corrupted display in runtime or edit in the PG2 Graphics Builder. 800xASYS-OL-5100-066	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
The Workplace may crash when navigating between displays. In many of the observed Workplace crashes, PG2 Displays are involved. 800xASYS-OL-5140-002 800xASYS-OL-5140-004 800xASYS-OL-5110-035 800xASYS-OL-5101-045 800xASYS-OL-5025-003 800xASYS-OL-5025-007 800xASYS-OL-5024-050 800xASYS-OL-5024-051 800xASYS-OL-5024-066 800xASYS-OL-5024-080 800xASYS-OL-5024-094	This problem has been corrected.
The Workplace may crash during navigation if object lock is enabled. 800xASYS-OL-5024-085	This problem has been corrected.
Memory utilization improvements are done to the Aspect Directory concerning LEG sessions. 800xASYS-OL-5024-088	
On a few occasions, the Workplace has crashed during startup. 800xASYS-OL-5024-093	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
A memory utilization notification has been added to the Workplace. The threshold is configurable and when the limit is reached, an exclamation mark is displayed on top of the screen and a System Event generated. On clicking the Performance Notification, a dialog is displayed with options to restart the Workplace or continue working. The feature needs to be enabled and the settings are for each user. Following is an example of the configuration: 1. Go to the User Structure 2. Expand the tree user groups 3. Expand Administrators – IndustrialITAdmin,User Group and click Administrator, User 5. Click the Workplace Profile Values aspect. 6. Click PerformanceCheck from the Names list box. 7. Click Local from the Datasource group box. 800xASYS-OL-5024-099	

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
Continued. 8. Ensure to select the check box to monitor the Performance. 9. Modify any of the other Profile Values (that is, VMSize, TimeLimt and SamplingInterval) if required. The following parameters are configurable: 1. Performance Check 2. VMSize 3. TimeLimit 4. SamplingInteval **Note:** Restart the Workplace after every update of the profile values for applying the new setting. 800xASYS-OL-5024-099	
On a few occasions, it has been observed that the System Backup has failed because the backup process does not function. 800xASYS-OL-5024-100	This problem has been corrected.
The Workplace may not respond while using ALT+TAB or ALT+SHIFT+TAB. 800xASYS-OL-5024-102	This problem has been corrected.
The Workplace may crash due to a blank entry of Verb/View in the Hotkey definition aspect. 800xASYS-OL-5023-055	This problem has been corrected.
Changing the ViewReference of an Aspect View Wrapper does not work properly when the ViewReference is configured to an expression. 800xASYS-OL-5023-059	This problem has been corrected.

Table 10. Operational Issues (Continued)

Issue	Correction or Fix
The Workplace may hang sometimes, when a Global Hotkey is pressed along with the Write operation from faceplate. 800xASYS-OL-5023-061	This problem has been corrected.
On a few occasions, the Workplace has crashed when changing display to System Event List. 800xASYS-OL-5023-063	This problem has been corrected.
The Workplace may crash after displaying the External Alarm Silence aspect. 800xASYS-OL-5000-082	This problem has been corrected.

Table 11. Miscellaneous Issues

Issue	Correction or Fix
The Product ABB 800xA Legacy Graphics Library 5.1.0/0 cannot be installed on versions other than ABB 800xA Base 5.1.0/0. 800xASYS-MS-5140-002	This problem has been corrected.

Fixed in 800xA 5.1 Revision C

Table 12 and Table 13 lists the Configuration, and Operation issues that have been corrected in Base System for 800xA 5.1 Revision C.

Table 12. Configuration Issues

Issue	Correction or Fix
When migrating VB Graphics to PG2 Graphics using the Graphics Migration Tool, a few properties of the Aspect View Button are not mapped. 800xASYS-CN-5101-015	This problem has been corrected.
After migrating VB Graphics to PG2 Graphics using the Graphics Migration Tool, some of the mappings may get deleted while copying and pasting a PG2 Graphic Element. 800xASYS-CN-5101-016	This problem has been corrected.
Images and texts configured for the PG2 Aspect View Buttons are not presented as expected, in a few situations. 800xASYS-CN-5101-017	This problem has been corrected.
PG2 Graphics Builder will crash on opening a Graphic Display containing negative values for the Font Size. 800xASYS-CN-5101-018	This problem has been corrected.
Undoing a delete operation of an input property in the PG2 Graphics Builder will cause an inconsistency, reporting the message *Sorry: Inconsistency found*. 800xASYS-CN-5101-019	This problem has been corrected.

Table 12. Configuration Issues (Continued)

Issue	Correction or Fix
In the PG2 Graphics Builder, it is not possible to verify whether the background image is empty or not. 800xASYS-CN-5101-020	It is now possible to check if the background image is empty or not.
Information on configuring users who can access **Acknowledge All Visible Alarms** in the context menu is missing in *System 800xA Engineering Process Graphics (3BSE049230*)*. 800xASYS-CN-5100-019	The procedure for restricting the access of **Acknowledge All Visible Alarms** option for specific users is described in *System 800xA Engineering Process Graphics (3BSE049230*)*.

Table 13. Operational Issues

Issue	Correction or Fix
On a few occasions it has been observed that the Alarm line(s) used in the Workplace Application bar can cause the Operator Workplace to crash. 800xASYS-OL-5103-001	This problem has been corrected.
In the PG2 Graphics Builder, it is sometimes possible to save a corrupt PG2 Graphic Display without getting any warning. 800xASYS-OL-5102-005	This problem has been corrected.
The highlight indication area is drawn incorrectly around the PG2 Graphic Element if they are rotated or flipped. This problem was introduced in 800xA 5.1 Rev B. 800xASYS-OL-5102-008	This problem has been corrected.
Process Graphics may not show the correct values. For more information, refer to the *Product Alert 3BSE067835*. 800xASYS-OL-5101-021	The problem has been corrected. The workarounds described in the Product Alert is no longer needed.

Table 13. Operational Issues (Continued)

Issue	Correction or Fix
The Toolbar tool "Acknowledge All Visible Alarms" does not work. This tool works as required, when accessed from the Context Menu. 800xASYS-OL-5110-032	This problem has been corrected.
Trends may not be plotted correctly when using Extended Momentary treatment in the following scenarios: • When values from future timestamp are requested. • When the Trend Display is used within a VB Graphics TrendViewCtl. 800xASYS-OL-5101-047	This problem has been corrected.
Log data cannot be accessed from Basic History when the name of the logged property exists in more than one aspect. 800xASYS-OL-5101-055	This problem has been corrected.
On a few situations, a leak of threads has been observed in the Workplace Application when several PG2 Graphic Displays or Faceplates are opened rapidly. This leak can cause the Workplace to crash. 800xASYS-OL-5101-060	The thread leak has been corrected.
The Workplace application may crash when launching the Function Designer through a double-click of the Function Aspect. 800xASYS-OL-5101-067	This problem has been corrected.

Table 13. Operational Issues (Continued)

Issue	Correction or Fix
Use of special characters (+,-) as inputs to the PG2 Faceplates DEW can cause the value zero to be written to the Controller. For more information, refer to the *Product Bulletin 3BSE071761*. 800xASYS-OL-5100-060	This problem has been corrected.
The Reference part of the object context menu does not appear sometimes, because of an error in the Xref service. 800xASYS-OL-5013-049	This problem has been corrected.

Fixed in 800xA 5.1 Revision B

Table 14, Table 15, Table 16, Table 17, and Table 18 lists the Administration, Configuration, Operation, Instruction Manual Changes, and Miscellaneous issues that have been corrected in Base System for 800xA 5.1 Revision B.

Table 14. Administration Issues

Issue	Correction or Fix
1) When the *Allow log on locally* policy is edited in new *ABBGroupPolicyObject*, the *Configuring Access on Domain Servers* section in *System 800xA Administration and Security (3BSE037410-510)* instruction does not describe the user/groups that should be added and the implication of what will happen when the policy is applied. It is important to understand that this policy *replaces* the default *Allow log on locall*y policy defined by the *Default Domain Controllers Policy*, that is, any groups listed in the default policy (such as "Account Operators", "Administrators", "Backup Operators", "Print Operators" and "Server Operators") should always be added to this new policy. Otherwise, any users belonging to these user groups will no longer be able to log in to the DC node. 2) The following step is missing in the *Configuring Access on Domain Servers* section in *System 800xA Administration and Security (3BSE037410-510)* instruction: *ABBGroupPolicyObject* is never linked to the *Domain Controllers* organization unit, and therefore will have no effect at all. 3) In the *Configuring Access on Domain Servers* section in *System 800xA Administration and Security (3BSE037410-510)* instruction, the steps on how to setup Restricted Group (in order to make users member of the local Administrators group in all nodes) is irrelevant for the purpose of configuring login rights. 800xASYS-AD-5100-012	The information is updated in the *Configuring Access on Domain Servers* section in *System 800xA Administration and Security (3BSE037410*).*

Table 14. Administration Issues (Continued)

Issue	Correction or Fix
1) Computer resource related issues may in rare occasions be experienced during an upgrade of Systems to 800xA System Version 5.0 or later versions when restoring the backup of large 800xA systems. Indications of this are: Import/Export Error: Transaction failed due to Aspect Directory server Error: Not enough storage is available to complete this operation. Import/Export Error: Insufficient memory to continue the execution of the program. Prior to these messages a performance degradation can be noticed. 2) After upgrading systems to 800xA System Version 5.0 SP2 or later versions, the Control Builder M Professional project upgrade may fail due to low process memory. Indications of this are: [Error] Transaction failed due to Aspect Directory server error: Catastrophic failure [Notification] Refreshing application: CTRL03APPL1 Transaction Cancelled.	This is not a problem when the system is running on a 64-bit Windows 7 and Windows Server 2008.

Table 15. Configuration Issues

Issue	Correction or Fix
Click transparent graphic items are not always click transparent as described in *System 800xA Engineering Process Graphics (3BSE049230*)*. 800xASYS-CN-5110-009	Click transparent graphic items are now truly click transparent. The correction may cause a changed click behavior for few customer defined graphic aspects. The changed behavior is present when graphic aspect instances overlap. To be able to keep the existing behavior, configuration changes may be needed.
After installing the latest version of 800xA Base system and/or after performing the firewall configuration, the firewall in Windows 7 can start blocking all RNRP messages. This situation can be noticed by a slow system response. The RNRP monitor shows the local network addresses but no nodes. The network redundancy does not function. 800xASYS-CN-5101-003	This problem has been corrected.
Backup of External Services > Basic History Data does not work when the storage path is an external network. 800xASYS-CN-5101-011	This problem has been corrected.
Adding large object trees to Engineering Repository can cause it to crash or stop working. 800xAENP-CN-5100-001	This problem has been corrected.
In a Trend Display, the text displayed in Min axis and Max axis are not presented for Binary Signals. 800xASYS-CN-5100-020	This problem has been corrected.

Table 15. Configuration Issues (Continued)

Issue	Correction or Fix
Process Graphics 2 Builder will crash when changing the data type of an input property referenced by an Expression Variable. 800xASYS-CN-5100-025	This problem has been corrected.
When launching the Engineering Workplace and Maintenance Workplace in a non-English locale, the warning message *System 800xA only supports engineering in US English* is not presented to the user. 800xASYS-CN-5100-026	This problem has been corrected.
For some user login, the PG2 Graphics Builder may crash while opening. 800xASYS-CN-5025-001	This problem has been corrected.
IEC 61850 will use the OPC Source Name aspect to resolve object names in certain scenarios. The OPC Source Name aspect category is not marked as Copy At Upload (MI); instead a proxy object is uploaded. The object name look up will fail in a subscriber. 800xASYS-CN-5024-049	This problem has been corrected.
There is a limitation in the OPC DA Handler when it searches for the data source aspects to find the correct service group to be connected when subscribing for OPC DA items. 800xASYS-CN-5020-149	The search algorithm in the OPC DA Handler has been improved.
It is not possible to configure the Alarm List toolbar. 800xASYS-CN-5010-074	The Alarm List toolbar is now configurable. A new Toolbar tab has been added to the Alarm and Event List Configuration where it is possible to select the tools to be shown.

Table 16. Operational Issues

Issue	Correction or Fix
Bad Quality representation is not shown for Trim Curves in PG2 Trend Primitive. 800xASYS-OL-5110-001	This problem has been corrected.
The Workplace will crash when *View Details* is selected from context menu of Lock Status view. The locked objects showed are represented by GUID. 800xASYS-OL-5110-003	This problem has been corrected.
Process Graphics 2 displays does not handle references to non-existing fonts correctly. If a non-existing logical font is referred from a text item, it will cause an exception and the Process Graphics 2 graphic display will not be shown. 800xASYS-OL-5110-004	This problem has been corrected.
If the Taskbar is configured to autohide and Operator Workplace full screen is toggled, the Taskbar disappears. 800xASYS-OL-5110-007	This problem has been corrected.
Sometimes after a restart of Windows 2008 64-bit, RNRP fails detecting nodes on the network. 800xASYS-OL-5110-011	This problem has been corrected.
False media down status cause RNRP to report Netw_down. 800xASYS-OL-5110-012	RNRP made less sensitive for spurious media down status from network interface is seen in Windows 7 and Windows Server 2008.
In some situations, the Workplace has been observed running at almost 100% CPU making the Workplace unresponsive. 800xASYS-OL-5110-013	Stability improvement has been done to the Workplace to avoid this issue.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
The Release Responsibility function in the Point Of Control dialog sometimes does not update correctly after completing the operation. 800xASYS-OL-5110-015	This problem has been corrected.
Workplace crashes during navigation. 800xASYS-OL-5110-020	This problem has been corrected.
Point Of Control Summary aspect sometimes does not show any data. 800xASYS-OL-5110-021 800xASYS-OL-5110-022	This problem has been corrected.
The default file size for Event Storage is small since the event size has become bigger over time. 800xASYS-OL-5110-023	The default file size for Event Storage has been increased from 3 Mb to 30 Mb. For more information on Event Storage, refer to the *Alarm and Event* section in *System 800xA Administration and Security* (*3BSE037410**).
In some situations, the sort order can become slightly different in an Alarm List before and after a Stop Update operation and a Start Update performed on a sorted Alarm List. 800xASYS-OL-5110-024	This problem has been corrected.
Trend data is not fetched automatically when scrolling back in time. 800xASYS-OL-5102-001	This problem has been corrected.
In some situations, when using 800xA Log Over function, it has been observed that the "logged over" user has lost all access rights. 800xASYS-OL-5102-002	This problem has been corrected.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
There is a risk that alarms are not displayed in an Alarm List as expected. This issue is most visible in an Alarm Line (an Alarm List configured with a limited number of visible rows). Product Alert: 3BSE067108 800xASYS-OL-5101-007	This problem has been corrected.
Sorting an Alarm List on Acknowledge state does not work as expected. This issue is most visible in an Alarm Line (an Alarm List configured with a limited number of visible rows). 800xASYS-OL-5101-015	This problem has been corrected. Sorting an Alarm List on Acknowledge state now works as expected.
When a Process Graphics 2 graphic display is opened in the 800xA Smart Client, the Process Graphics 2 data provider consumes high memory for a long time. This increases the Process Graphics 2 display call-up time in the 800xA Smart Client. 800xASYS-OL-5101-016	Performance improvement has been done in Process Graphics 2 to avoid this problem.
It is not possible to configure the Alarm Band font size. 800xASYS-OL-5101-019	It is now possible to configure the font size in the Configuration View of the Alarm Band aspect.
Tooltips on Process Graphics 2 Graphic Element instances display the Aspect name instead of the Object name, if the Object name contains a dot ("."). 800xASYS-OL-5101-022	This problem has been corrected.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
Switching between 800xA Smart Client Panels containing trends may cause a leak of the subscriptions to the Basic History Service. 800xASYS-OL-5101-026	This problem has been corrected.
It is not possible to silence an audible alarm if the alarm is removed from the Alarm List before it is acknowledged. 800xASYS-OL-5101-029	This problem has been corrected.
Opening many trend displays on a node will cause high CPU usage on the Workplace application and lead to performance issues. 800xASYS-OL-5101-036	A new setting *Auto-scroll on Scroll Position* has been provided in the *General* tab of the Trend Template. Enable this setting to avoid the redraw of the trend curve for each update. This setting improves the performance.
In some situations, the Workplace crashes after using the button *Acknowledge all visible alarms*. 800xASYS-OL-5101-038	This problem has been corrected.
PG2 Graphic aspects containing late bound color references may cause the Smart Client PG2 data provider to be restarted. This will cause problems when opening PG2 displays in Smart Client. 800xASYS-OL-5101-041	This problem has been corrected.
The following issues exist with Alarm Lists filtered on Enabled Alarms. 1. Alarm Analyze will count alarms that are disabled. 2. Audible alarms that uses this filtered Alarm List will not be silenced when the alarm is disabled. 800xASYS-OL-5101-044	This problem has been corrected.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
On a few occasions, alarm counters in Alarm Bands and Alarm Lists get wrong value when Alarm Hiding is used in a system. 800xASYS-OL-5101-049	This problem has been corrected.
When using Reference Documentation, the PG2 Graphics Builder crashes after clicking the Create Documentation button. 800xASYS-OL-5101-052	This problem has been corrected.
Missing hotkey for workplace restart. 800xASYS-OL-5101-053	CTRL + SHIFT + ALT + R is the hotkey for workplace restart.
In some situations, the Basic History service stores data incorrectly to the logs with samples having quality flag appended with Modified Time. 800xASYS-OL-5100-018	This problem has been corrected.
It is not possible to enter values with decimals in a PG2 Real DEW if the regional language to Swedish is set to Swedish and comma is used as a decimal separator in Windows Regional Settings. 800xASYS-OL-5100-025	This problem has been corrected.
When a service establishes connection to the system, there is a possibility that connection fails and the service needs to be restarted. 800xASYS-OL-5100-034	This problem has been corrected.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
The Workplace leaks user objects when bringing up the object context menu on a Graphic Element in the Operator Workplace. This happens only if two or more Alarm/ Event aspects are located on the object. This is a common construction for the Connect products, for example, AC 800M, Melody, and AC 400. 800xASYS-OL-5100-042	The user object leak has been corrected.
Exceptions may occur when configuring an ActiveX Viewer in the PG2 Graphics Builder due to improper property values of the ActiveX control. 800xASYS-OL-5100-043	The user object leak has been corrected.
Tooltips on Process Graphics 2 Graphic Element is not displayed when the cursor is hovered over it, if the Window containing the element is not active. 800xASYS-OL-5100-044	This problem has been corrected.
The workplace clock blinks / flashes when the Windows 7 theme is set to Basic or Classic. 800xASYS-OL-5100-051	This problem has been corrected.
Issues exist with font size of Object name and Property name displayed in the Item Area of Left and Right views of the Trend Display. 800xASYS-OL-5100-052	This problem has been corrected.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
When configuring faceplates on a Composite Object Type where one or more child objects have the same object name, the existing expressions in the faceplate may be lost when applying configuration changes. 800xASYS-OL-5100-053	This problem has been corrected.
TRIM curves are not plotted in a Trend Display when the Low Range and High Range columns are not configured in the Trend Table. 800xASYS-OL-5100-054	This problem has been corrected.
A memory leak can sometimes occur in the Operator Workplace application while opening Process Graphics 2 Graphic Displays. This may cause the Workplace to crash. 800xASYS-OL-5024-052	The memory leak has been corrected.
When a Priority 1 alarm arrives in the Alarm List, an audible alarm is activated with the corresponding sound. If this alarm remains unacknowledged and a new alarm arrives with a lower priority (For example, Priority = 2), a new audible alarm is not activated. The lower priority alarm is played only if the higher priority alarm is acknowledged. 800xASYS-OL-5024-056	This problem has been corrected.
PG2 aspects containing Symbol Factory graphic items cause high CPU usage of the Workplace application. 800xASYS-OL-5024-060	This problem has been corrected.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
The PG2 Print function prints graphic items that are not visible in the graphic display. 800xASYS-OL-5024-061	This problem has been corrected.
Issue exists with print margins in PG2 Graphic aspects. 800xASYS-OL-5024-062	This problem has been corrected.
Viewing Process Graphics 2 graphic displays may cause the Workplace to crash. 800xASYS-OL-5024-063	This problem has been corrected.
It is not possible to left click for activating a Faceplate from Fixed Display area in the Workplace. 800xASYS-OL-5024-068	This problem has been corrected.
Sometimes wrong file sets can be used after an upload to the subscriber system. The uploaded displays will not be presented correctly. 800xASYS-OL-5024-069	This problem has been corrected.
In large systems, the memory consumption for the Aspect Directory (*AfwADServer.exe*) process can be higher than the Windows 2 GB process memory limit. This is a limitation in all 32-bit versions of Windows operating systems. When the Aspect Directory cannot allocate enough memory, it will terminate and restart. The clients connected to the failing Aspect Directory will be a fail over to another Aspect Directory. Product Bulletin: 3BSE068150 800xASYS-OL-5024-070	Improvement has been done to reduce the memory consumption of Aspect Directory especially for system having large number of aspect categories. Observe that memory consumption in the current revision of 800xA 5.1 can be more than 2 GB on 32-bit operating systems. The corrective actions described in the Product Bulletin is still valid. On 64-bit systems, the Aspect Directory can consume up to 4 GB.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
Trend display may cause an increase in CPU usage due to continuous update of Low Range and High Range columns in the Trend Table. 800xASYS-OL-5024-072	This problem has been corrected.
A memory leakage can occur in the Workplace application while opening overlaps. This may cause the Workplace to crash. 800xASYS-OL-5024-073	This problem has been corrected.
High memory consumption is sometimes observed when viewing Process Graphics 2 displays. 800xASYS-OL-5024-078	Performance improvement has been done in Process Graphics 2.
Restart of the Alarm Manager restarts is observed in a system using Alarm Hiding. The Alarm Lists connected to the failing Alarm Manager will not get updated with new alarms. This will be indicated with a red frame around the Alarm List. Product Bulletin: 3BSE068139 800xASYS-OL-5023-044	This problem has been corrected.
Units are not shown in High Range and Low Range columns after a configuration change in the Trend table. 800xASYS-OL-5023-047	This problem has been corrected.
It has been observed that Process Graphics 2 becomes corrupted on certain situations. If this happens, an error message with gray background will be displayed and it is not possible to open the graphic display in Process Graphics 2 Builder. 800xASYS-OL-5023-049	This problem has been corrected.

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
In some situations, the Workplace crashes when invisible (the property *Visible* set to *False*) Graphic Elements has been used in Graphic Displays. 800xASYS-OL-5023-050	This problem has been corrected.
An invisible Process Graphics 2 Graphic Element may crash the AfwWorkplace. 800xASYS-OL-5023-051	This problem has been corrected.
The Direct Entry Window (DEW) of PG2 input items gets closed within a few seconds when the DEW is clicked after opening the aspect. 800xASYS-OL-5022-037	The problem has been corrected.
Fast display exchanges involving Alarm Lists with live values can cause the Workplace to crash. 800xASYS-OL-5022-039	The problem has been corrected.
Process Graphics 2 graphic displays used as fixed displays may cause the Workplace to crash. 800xASYS-OL-5021-036	This problem has been corrected.
If multiple instances of the same Graphic Element is used in a Graphic Display, the last value of the property *Frame3Deffect* will be used for each Element. 800xASYS-OL-5021-039	This problem has been corrected.
Recommendation regarding hard disk settings has been published in the Product Bulletin 3BSE062449. 800xASYS-OL-5020-143	-

Table 16. Operational Issues (Continued)

Issue	Correction or Fix
Sorting an Alarm List on Priority that has not been stopped or frozen, does not work as expected. This issue is most visible in an Alarm Line (an Alarm List configured with a limited number of visible rows). 800xASYS-OL-5020-149	This problem has been corrected. The sorting of an Alarm List works as expected.
The Alarm and Event List does not show any progress indication during startup or after a refresh operation. The user cannot see if the list is empty or still updating and collecting data. 800xASYS-OL-5013-046	This problem has been corrected.
When daylight saving is enabled, the time axis on the Trend Display is not presented as per the *Selected Time & 'Time Scope*. 800xASYS-OL-5010-074	This problem has been corrected.
The *Refresh* button is missing in Trend Display for retrieving ExtMomentary data when scrolling back in time. 800xASYS-OL-5010-075	A *Refresh* button has been added to the Trend Display that fetches data for the displayed Time Period.
In some situations, the synchronization of file sets in FSD fails when time differs on servers. One symptom observed is the following error message from the Control Builder for AC 800M (CBM). $_COMPILE_OUTPUT_FILES_ARE_MISSING 800xASYS-OL-4106-009	This problem has been corrected.

Table 17. Instruction Manual Changes

Issue	Correction or Fix
The statement to contact ABB Product Management before upgrading a combined Domain Controller/ Aspect Server should be removed from *System 800xA Upgrade (3BSE036342-511)*. 800xASYS-MC-5100-004	The statement has been removed from *System 800xA Upgrade (3BSE036342-511 A)*.
The OPC DA specifications in *System 800xA Configuration (3BDS011222*)* is not correct. 800xASYS-MC-5100-010	The OPC DA specification is updated in *System 800xA Configuration (3BDS011222*)*.
The description of AC 800M generic elements is required in the user documentation. 800xASYS-MC-5100-012	The description of AC 800M generic elements has been added as an appendix in *System 800xA Engineering Process Graphics (3BSE049230*)*.
The usage of ViewReference expression for the Aspect View Wrapper needs to be improved. 800xASYS-MC-5100-013	The information is updated in the *Aspect View Wrapper* section in *System 800xA Engineering Process Graphics (3BSE049230*)*.

Table 18. Miscellaneous Issues

Issue	Correction or Fix
The registry setting available for running a workplace application on a Single CPU core does not function properly. 800xASYS-MS-5101-001	This problem has been corrected.
In some situations, the data subscription may not function in PG2 Displays when viewing in 800xA Smart Client. 800xASYS-MS-5101-002	This problem has been corrected.
Improved trace possibilities when changing displays in the Workplace. 800xASYS-MS-5020-149	Display exchange information logging capabilities have been added to the Workplace.

Fixed in 800xA 5.1 Revision A

Table 19, Table 20, and Table 21 lists the Administration, Configuration, and Operation issues that have been corrected in Base System for 800xA 5.1 Revision A.

Table 19. Administration Issues

Issue	Correction or Fix
The System Directory Configuration task in the System Configuration Console does not support changing the Aspect Directory server data storage location for non redundant systems. 800xASYS-AD-5100-009	This problem has been corrected.
Changing the data storage location of System 800xA services using the System Directory Configuration task in System Configuration Console may prompt a message indicating failure of the copy operation. 800xASYS-AD-5100-010	This problem has been corrected.

Table 20. Configuration Issues

Issue	Correction or Fix
In 800xA 5.1, the Logical Color dialog does not appear correctly while configuring Faceplates. 800xASYS-CN-5100-001	This problem has been corrected.
In 800xA 5.1, it is no longer possible to compare afw files in the Import/Export tool. 800xASYS-CN-5100-002	This problem has been corrected.

Table 20. Configuration Issues (Continued)

Issue	Correction or Fix
In 800xA 5.1, grouped items which are saved to a solution library from a PG2 graphic display and then reused in another PG2 graphic display will create duplicates in the Items Explorer. 800xASYS-CN-5100-003	This problem has been corrected.
During a Load-Evaluate-Go session involving replaced library connections (change of major library version), Plant Explorer workplaces connected to the Production environment may not be updated correctly. The symptoms are broken data subscriptions or empty aspect lists. 800xASYS-CN-5100-012	This problem has been corrected.
PG2 Trend Primitive does not function as required when the Time Span property is connected to a Expression Variable. 800xASYS-CN-5100-015	This problem has been corrected.
Workplace: Current User and Logo Collection does not function as required. 800xASYS-CN-5100-018	This problem has been corrected.
When an object is dragged and dropped into a trend table column, the 'Low Range' and 'High Range' values in the Trend table are shown incorrectly for binary signals. 800xASYS-CN-5024-048	This problem has been corrected.
Replace of a library version can cause inconsistencies such as broken references in the system. It can also revert some instance names to their initial names. 800xASYS-CN-5023-025	This problem has been corrected.

Table 20. Configuration Issues (Continued)

Issue	Correction or Fix
Replace of a library version or a change type operation can fail if the new type contained a copied formal instance. 800xASYS-CN-5022-031	This problem has been corrected.
References between aspects can become invalid on creating a new version of a library. 800xASYS-CN-5020-014	This problem has been corrected.
PG2 Combo Box selection is sometimes not presented correctly. 800xASYS-CN-5100-017	This problem has been corrected.
The state of the PG2 Radio Button that is clicked is not shown as selected before an Apply action. 800xASYS-CN-5100-016	This problem has been corrected.
In the PG2 Graphics Builder it is not possible to connect an "input only" input property to an "input only" property. This problem is introduced in 5.1. 800xASYS-CN-5100-004	This problem has been corrected.
When an input property of type user enumeration is assigned to a property, an erroneous expression is generated that is not possible to apply, i.e. you can not press ok later. 800xASYS-CN-5100-005	This problem has been corrected.

Table 21. Operational Issues

Issue	Correction or Fix
During a Load-Evaluate-Go session involving replaced library connections (change of major library version), Operator Workplaces connected to the Production environment may not be updated correctly. The symptoms are broken data subscriptions or empty aspect lists (For example, the Toggle Browser aspect list). 800xASYS-OL-5100-011	This problem has been corrected.
It is not possible to configure Point of Control with Bulk Data Manager. 800xASYS-OL-5100-014	This problem has been corrected.
When running the Operator Workplace in Operator Workplace mode, the operator can access the Windows task bar from overlap windows. 800xASYS-OL-5100-017	This problem has been corrected.
When using Exception Deviation, wrong values are extrapolated in the log (with quality 'modified time') for non changing values. 800xASYS-OL-5100-018	This problem has been corrected.
The alarm list property *AlarmState* does not show correct values. The sum of several alarm states is presented instead of showing the state of the most important alarm. 800xASYS-OL-5100-019	This problem has been corrected. The state of the most important alarm is now shown.
No operator actions are logged in the Audit Trail log without an Audit License. 800xASYS-OL-5100-020	No Audit License is required to log operator actions in the Audit Trail log.

Table 21. Operational Issues (Continued)

Issue	Correction or Fix
The workplace may crash on clicking the Details window of a PG2 graphic element. 800xASYS-OL-5100-021	This problem has been corrected.
In PG2 displays, expressions having references to out terminals are not always correctly executed. 800xASYS-OL-5100-022	This problem has been corrected.
If two operators request responsibility at the same time in Point of Control, both the operators receive a success symbol. However, only one operator gets the responsibility. 800xASYS-OL-5100-023	This problem has been corrected.
The PG2 Input items do not allow usage of decimal comma (,) as a decimal separator, when entering values in the Direct Entry Window (DEW). 800xASYS-OL-5100-025	This problem has been corrected.
In 'Organize Aspect Menu', the wrong favorites folder is shown as root folder. 800xASYS-OL-5100-026	This problem has been corrected.
Sometimes, when opening a Trend display, the units on the trend axis is not presented properly. 800xASYS-OL-5024-049	This problem has been corrected.
PG2 Graphics sometimes consumes a lot of memory. 800xASYS-MS-5024-036	Memory utilization has been improved for PG2 graphics.

Table 21. Operational Issues (Continued)

Issue	Correction or Fix
Automatic logover to the configured inactivity user is performed even if manual logover is not done. 800xASYS-OL-5023-011	The Logover Settings aspect has been extended with a new setting "Only when Logover has been done". This setting is enabled when an inactive user is configured. By default, this setting is not enabled. When enabled, automatic logover to the inactivity user is performed only if a manual logover is done.
The WebPage aspect leaks memory each time it is activated. 800xASYS-OL-5023-018	This problem has been corrected.
Alarm expressions with simple events might generate two events. 800xASYS-OL-5023-020	This problem has been corrected.
The Workplace can crash due to high memory consumption when using PG2 displays. 800xASYS-OL-5023-026	Improvements have been done to reduce Workplace memory consumption when using PG2 displays.
Unnecessary memory allocation when saving to a local cache file in PG2 graphics, can cause the Workplace to crash due to out of memory. 800xASYS-OL-5023-027	This problem has been corrected.
Trend Display sometimes incorrectly displays the Current Value as 0.00. 800xASYS-OL-5023-029	This problem has been corrected.
When using the Print Screen function, there is a leak of GDI Objects. 800xASYS-OL-5023-030	This problem has been corrected.

Table 21. Operational Issues (Continued)

Issue	Correction or Fix
A network with high latency (>10 ms) can cause time synchronization to fail. The result is that clocks on the affected nodes may drift. 800xASYS-OL-5023-033	Improvement is done to make the system more tolerant to network latency.
The Workplace print tool does not print PG2 displays properly. 800xASYS-OL-5023-034	A new option "Print" has been added to the context menu of PG2 graphic aspects, which provide improved printing functionality for the PG2 graphic aspects.
Creating an attribute extension to an event category can cause failure in the Alarm system. 800xASYS-OL-5023-036 Product Bulletin: 3BSE064359	This problem has been corrected.
If the Scripting Aspect is activated by a service and the script displays a message dialog, the service hangs. 800xASYS-OL-5023-037	Message dialogs will no longer be created in Scripting Aspects when the script is activated by a service.
In some situations, the OPC Data Access service may toggle between the status, Service and Initialize. In this situation, the data in displays will toggle between bad and good quality. 800xASYS-OL-5023-038	This problem has been corrected.
PG2 aspects containing Symbol Factory graphic items cause the Workplace application to leak memory. 800xASYS-OL-5022-016	This problem has been corrected.
The PG2 Aspect View Wrapper is not shown sometimes when the properties of this wrapper are modified dynamically. 800xASYS-OL-5022-025	This problem has been corrected.

Table 21. Operational Issues (Continued)

Issue	Correction or Fix
A local cache file used by PG2 graphics can get corrupted with the consequence that no PG2 graphic aspect can be viewed on that node. 800xASYS-OL-5022-030	This problem has been corrected.
When the cursor is moved from a marked graphic element in a VBPG graphic display to an overlapping VBPG aspect, there is GDI object and User object leak of the Workplace application. 800xASYS-OL-5022-032	This problem has been corrected.
The following Alarm List attributes do not use the same time format when printed as used on screens: • ActiveChangeTime • ShelvingTime • ShelvingExpireTime 800xASYS-OL-5022-033	The same time format is used both for printing and viewing Alarm Lists.
A request for data from Trend Display that leads to a large number samples may cause the Basic History service to crash due to memory allocation failure. 800xASYS-OL-5022-035	This problem has been corrected.
There is a small memory leak (5-10 kB) in the Workplace when an Event List is displayed. 800xASYS-OL-5022-036	This problem has been corrected.

Table 21. Operational Issues (Continued)

Issue	Correction or Fix
Graphics Displays and Faceplates based on Process Graphics 2 can show data from wrong process objects in some scenarios. In such situations, faceplates can operate on wrong objects. 800xASYS-OL-5021-035 Product Alert: 3BSE064660, 3BSE064835	An update problem with the cache file, ItemBlobCache.dat, used by Process Graphics has been corrected.
Tooltip for the toolbar on Alarm Logger manager does not support NLS. 800xASYS-OL-5020-147	Tooltip of the Alarm Logger manager now supports NLS.
The Workplace application crashes if the user clicks the Trend Display scope right/left and no scope is selected. 800xASYS-OL-5020-148	This problem has been corrected.
When sorting is performed on an Alarm List column, other alarmTable 25s can show up in the list. 800xASYS-OL-5020-149	Sorting columns in Alarm Lists will perform sorting only among visible alarms or events.
Audible alarms can increase the CPU load for the operator workplace and can make it inoperable. 800xASYS-OL-5013-043 Product Bulletin: 3BSE063889	This problem has been corrected.
Object Highlighting does not function as required when the Primary Target is changed between workplace panels. 800xASYS-OL-5013-045	This problem has been corrected.

Table 21. Operational Issues (Continued)

Issue	Correction or Fix
When an object is dragged and dropped in a Trend Table column which already has a curve configured, the attributes Low Range, High Range, LogName, Line Style, Treatment, and Extrapolate values of the existing curve are retained. 800xASYS-OL-5010-068	This problem has been corrected.
Units of current values in the Trend Display Right View are sometimes not displayed. 800xASYS-OL-5010-069	This problem has been corrected.
Alarm logger may not align columns correctly in the printouts. 800xASYS-OL-5010-072	This problem has been corrected.

Fixed in 800xA 5.1

Table 22, Table 23, Table 24, and Table 25 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in Base System for 800xA 5.1.   .

Table 22. Installation Issues

Issue	Correction or Fix
Aspects/Entities that were reserved when they where backed-up will be non-reserved when they are restored. 800xASYS-IN-5010-006	For more information, refer to *System 800xA Engineering Engineering and Production Environments (3BSE045030*).*

Table 23. Administration Issues

Issue	Correction or Fix
Applications below a Controller entity in the engineering Repository browser are displayed as 'changed in system' even if they are not. Important 800xASYS-AD-5020-012	Go to the Application entity in the Engineering Repository browser to see if an application is changed or not.
Doing an import of a large project, and overwriting an existing project consumes excess memory. Important 800xASYS-AD-5000-001800xASYS-AD-5000-001	Delete the project that will be overwritten before doing the import.
Mapping a disc drive with stored or remembered passwords can give a user more permissions than wanted. Important 800xASYS-AD-5000-029	For more information, refer to *System 800xA Administration and Security (3BSE037410*).*

Table 23. Administration Issues (Continued)

Issue	Correction or Fix
If the **Keep alarms with condition inactive and acknowledged** check box is selected in the Alarm Manager, the alarm band may show some inconsistency. 800xASYS-AD-5000-042	The user interface is changed so the user is informed that the Alarm Manager needs to be restarted after changing the **Keep alarms with condition inactive and acknowledged** check box setting, both when selecting and clearing the check box.
The function in Windows to map a disc drive to a remote node with a different user compared to the user logged in might cause authentication problems in System 800xA. Audit Trail information is incorrect when doing operations from one client node but correct when performing from another client node when logged in as the same user. Important 800xASYS-AD-4100-134	For more information, refer to *System 800xA Administration and Security (3BSE037410*)*.
Export of entity with sub-entities will not keep the physical child order. 800xASYS-AD-5000-003	When importing an entity with sub-entities, the physical child order will now be the same as when doing the export.
When there are several alarm expression aspects with the same condition name (but different sub conditions) on the same object, the alarm server considers all the alarms as the same alarm. 800xASYS-AD-4100-113	The Consistency Checker tool is improved to detect this issue. For more information, refer to *Section 6 Consistency Check* in *System 800xA Tools (2PAA101888*)*.

Table 24. Configuration Issues

Issue	Correction or Fix
After a restore or upgrade has prompted the user to restart the node, the Configuration Wizard can in some cases become non responsive. Important 800xASYS-CN-5020-002	The Configuration Wizard will no longer become non responsive.
Handling of parallel extension library versions does not always work. If you import a new version of an extension library but you already have another version of the extension library active, the intention is that the old version should be inactivated and the new version should be activated. But if an aspect in the old version has been removed in the new version, the switch of active extension library version will not remove the obsolete aspect. Important 800xASYS-CN-5020-004	The *System 800xA Configuration (3BDS011222*)* instruction includes the information on correcting extension libraries with removed aspects manually.
After performing an import inconsistencies may exist. 800xASYS-CN-5020-005	The *System 800xA Maintenance (3BSE046784*)* instruction includes recommendation to execute the consistency check after import.

Table 24. Configuration Issues (Continued)

Issue	Correction or Fix
If creating a new application without connection to the controller, two problems will arise: 1. If performing a compare operation, Engineering Repository will not show any modification. 2. If performing an export of the new application, it will not be exported to Engineering Repository. Important 800xASYS-CN-5020-011 800xASYS-OL-5020-009	Engineering Repository can now handle applications without connection the controller.
When a property is deleted in the Property Info tab on a Control Connection aspect on an object type in the Object Type structure, all created object instances of the changed object type in the Control Structure are affected. The Item IDs of the properties and access paths will be misplaced in the OPC tab in the Control Connection aspect. Important 800xASYS-CN-5020-019	For updated information on this problem, refer to *System 800xA Configuration (3BDS011222*).*
Standard aspect categories shall not be exported as it is not supported to modify or import these. 800xASYS-CN-5010-014	Customization and export/import of template aspects on the standard aspect categories is supported.
There is no support for generic graphic elements in libraries. 800xASYS-CN-4100-073	For more information, refer to the section *Object Aware and Generic Graphic Aspects* in *System 800xA Engineering Process Graphics based on Visual Basic (3BSE030335*).*

Table 24. Configuration Issues (Continued)

Issue	Correction or Fix
Creating a new library version and replacing it in the applications does not update the PG2 displays with the new graphic elements. 800xASYS-CN-5020-048	For more information, refer to the section *Library Handling* in *System 800xA Engineering Process Graphics (3BSE049230*).*
Problem with accessing object in composite element with EnableInput set to False after upgrading to System Version 5.0 SP1 or later versions. Important 800xASYS-CN-5000-067	For more information, refer to the section *Composite Graphic Elements* in *System 800xA Upgrade (3BSE036342*)* and the section *Support for Composite Object Types* in *System 800xA Engineering Process Graphics based on Visual Basic (3BSE030335*).*

Table 24. Configuration Issues (Continued)

Issue	Correction or Fix
If an object with an alarm is moved between or within structures in the Plant Explorer, the change will not be reflected in alarm lists and global properties that include descendant objects. Important 800xASYS-CN-5020-006	Alarm lists and global properties that include descendant objects are now updated correctly when an object with alarms are moved between or within structures in the Plant Explorer.

Table 24. Configuration Issues (Continued)
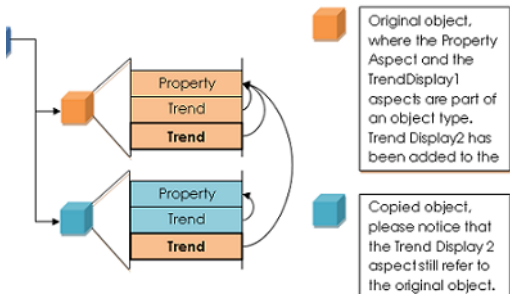
Issue	Correction or Fix
Exporting trend displays with dependencies. The properties shown in a trend display can be configured either using relative or a fixed addressing. Usage of relative addressing works only if the property concerned belongs to the same object or belongs to an object that is placed below the one that includes the trend display. Trend properties are always possible to be configured using fixed addressing, but this can lead to an unexpected copy behavior. For example, if the blue application is exported, the orange application will be included as a dependency in the export.	The dependency handling is improved. For more information, refer to *Appendix E Upgrading Faceplates* in *System 800xA Engineering Process Graphics (3BSE049230*)*.

Property
Trend
Trend

Property
Trend
Trend

Original object, where the Property Aspect and the TrendDisplay1 aspects are part of an object type. Trend Display2 has been added to the

Copied object, please notice that the Trend Display 2 aspect still refer to the original object.

Important
800xASYS-CN-5010-010

Table 25. Operational Issues

Issue	Correction or Fix
There is a risk that alarms are not presented in an Alarm List as expected. The issue is most visible in an Alarm Line (an Alarm List configured with a limited number of visible rows). For more information refer to the Product Alert *3BSE067108*. 800xASYS-OL-5101-007 Product Alert: 3BSE067108	This problem has been corrected.
It should not be possible to deploy to the evaluate environment after the application has been downloaded. After the 'Go' command this check fails, so it is possible to deploy after 'Go'. Important 800xASYS-OL-5020-001	It is no longer possible to deploy to the evaluation environment after downloading the application.
When taking over a reservation, after a log over, there will be incorrect reservation indications of the objects in object browser list in the Plant Explorer. Important 800xASYS-OL-5020-003	The correct reservation indication is shown after a user log over.
Changed behavior in Lost and Found in System Version 5.x. Important 800xASYS-OL-5020-013 Product Bulletin: 3BSE054677	The changed behavior is described in the Product Bulletin *3BSE054677*. The errors described in the product bulletin has been corrected in the *System 800xA Configuration (3BDS011222*)* instruction. For more information, refer to *System 800xA Configuration (3BDS011222*).*

Table 25. Operational Issues (Continued)

Issue	Correction or Fix
After an export to the Engineering Repository, entities of a specific object type appear in the Engineering Repository browser even if the specific object type is set to not be included in the object type filter. If the entity is imported to the system there will be errors in the Engineering Repository log and the object will not be imported. Important 800xASYS-OL-5020-017	For more information, refer to *System 800xA Configuration (3BDS011222*)*.
Objects with a Relative Name only can not be found with the Find Tool while searching for Name. Even if Name and the Relative Name attribute are used during a search, only objects with name aspects will be found. Important 800xASYS-OL-5020-024	The Find Tool is now improved to find the objects with only Relative Name.
The Alarm Manager service can crash if an attribute filter is applied to an attribute in an Alarm List that contains an empty attribute value. Important 800xASYS-OL-5013-038 Product Alert: 3BSE060241	The Alarm Manager will no longer crash when the Alarm List contains an empty value.
Changes in evaluation order of the default domain security aspect can result in an inoperative system. Important 800xASYS-OL-5013-039 Product Alert: 3BSE059677	Changes in evaluation order of the default domain security aspect will no longer result in an inoperative system.

Table 25. Operational Issues (Continued)

Issue	Correction or Fix
The menu item Properties in the object context menu and the aspect context menu has changed name to Details. 800xASYS-OL-5010-002	For more information, refer to *System 800xA Operations Operator Workplace Configuration (3BSE030322*)*.
In some cases, an entity can become reserved without any user action. Important 800xASYS-OL-5010-009	The reserve function is improved to avoid entities to become reserved without any user actions.
Updates of reservation information are not propagated correctly to all user interfaces. The result is that the reservation information sometimes is wrongly presented. Important 800xASYS-OL-5000-019 800xASYS-OL-5010-007	All operations are treated correct according to the real reservation status of the aspect/entity. When a mismatch in the reservation information is detected, restart the user interface.
Heavy engineering operations will increase load on the system, and the system may not always respond accurately to navigation and view operations. Engineering operations such as import/export, delete, copy/paste, save in Control Builder and reservations of a large amount of objects and aspects may create additional load to the system. Up to a limit of approximately 2000 objects these engineering operations usually do not affect system behavior, while exceeding this limit the response time for navigation and operational actions will gradually increase. Important 800xASYS-OL-5000-026	For more information, refer to *System 800xA Configuration (3BDS011222*)*.

Table 25. Operational Issues (Continued)

Issue	Correction or Fix
Error calling up the graphic aspect. 800xASYS-OL-4100-111	For more information, refer to the section *Graphics Builder* in *System 800xA Engineering Process Graphics based on Visual Basic (3BSE030355*).*
The workplace (AfwWorkplaceApplication.exe) may fail to start properly under the following conditions: • Hyper threaded CPU or multiple CPU:s and • More than one monitors connected to the computer and • A multi-screen workplace configuration is selected (for example Two Screen Plant Explorer Workplace) • Operating system is Windows XP SP2 with no Internet Explorer updates (version number of mshtml.dll is 6.00.2900.2180) 800xASYS-OL-4100-133800xASYS-OL-4100-133	The workplace (AfwWorkplaceApplication.exe) executes as required and is corrected to handle the specified conditions.
Migration Tool - Migration of VBPG Graphic Elements that reside in frames does not function. This displays an error message "Failed to capture". Important 800xASYS-OL-5020-056	Migration of VBPG Graphic Elements residing in frames is now possible.

Table 25. Operational Issues (Continued)

Issue	Correction or Fix
The master Alarm Manager may need to be restarted after deploying to the Production Environment before the alarm is visible in all clients. This is required if the Alarm Server sends an alarm before all objects exist in the Production Environment. Important 800xASYS-OL-5020-025	Restart of the master Alarm Manager is no longer needed after deploying to the Production Environment.
WinForms and WPF Wrappers are not supported. 800xASYS-OL-5020-052	In System Version 5.1, it is not possible to create new WinForms and WPF Wrappers in the Process Graphics Builder. The information on WinForms and WPF Wrappers is removed from *System 800xA Engineering Process Graphics (3BSE049230*)*.
Reservation information in client tools running in the production environment, that is, Control Builder, are not correctly updated after a LEG session. The result of the LEG session is that all reservations (and pending changes) should be removed from the production environment. Plant Explorer shows correct reservation information also after a LEG session. Important 800xASYS-OL-5010-003	Reservation information in client tools are now updated correctly after LEG sessions.
Blinking colors in Process Graphics 2 displays will stop blinking after 25 days. Important 800xASYS-OL-5022-011 Product Bulletin: 3BSE061181	This problem has been corrected and now the blinking will not stop after 25 days.

Section 4 System Services

This section details the Fixed Problems for System Services that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Central Licensing System

Table 26, lists the Operational issues that have been corrected in Central Licensing System in 800xA 5.1 Revision E.

Table 26. Operational Issue

Issue	Correction or Fix
Licensing errors when using OPC Gateway with Advant system (MB300 Control Object). 800xASRV-OL-5160-001	The license counting for MB300 DAT types in Advant system is changed based on faceplates.

Fixed in 800xA 5.1 Revision D

This lists the issues that have been corrected in System Services in 800xA 5.1 Revision D.

SMS and Email Messaging

Table 27 lists the operation issues that have been corrected in the SMS and Email Messaging for 800xA 5.1 Revision D.

Table 27. Operational Issues

Issue	Correction or Fix
Alarm delivery to email and SMS subscriber fails, when Message handler, Alarm and Event message source and Alarm and Event list are configured as **Inherit to all instances** or **Copy to all instances** in object type definition Aspect. 800xASRV-OL-5025-004	Corrections are made in the Message handler, Alarm and Event message source and Messenger service components.

Central Licensing System

Table 28 lists the operation issues that have been corrected in the Central Licensing System for 800xA 5.1 Revision D.

Table 28. Operational Issues

Issue	Correction or Fix
The ABB License Entry tool displays Installed Machine ID's to obtain license files. The text "Error displaying machine IDs: System.AccessViolationException", License Error pop-up message is displayed while selecting Installed Machine ID's from **ABB License Entry-> Machine ID's->Available Machine ID's**. The ABB License Entry tool closes after acknowledging the message. 800xASRV-OL-5140-008	The problem has been corrected.
The Central Licensing software fails to disable "Logging" feature for ABBLicense web site located under Default Web Sites in Internet Information Services (IIS) Manger. As a result of it the %SystemDrive%\inetpub\logs\LogFiles\W3 SVC1 folder may fill the disk on the node hosting the CLS server. Disk consumption is gradual and the consumption is based on requests to the license server. 800xASRV-OL-5100-006	Logging feature shall be disabled for ABBLicense website.

Fixed in 800xA 5.1 Revision C

This lists the issues that have been corrected in System Services in 800xA 5.1 Revision C.

Central Licensing System

Table 29 lists the operation issues that have been corrected in the Central Licensing System for 800xA 5.1 Revision C.

Table 29. Central Licensing System Operational Issues

Issue	Correction or Fix
In case of licenses violation for Batch Spreadsheet Scheduler, a slow response (>30 seconds) is observed while scheduling the Batch from a non-800xA node. The issue is observed only on System 800xA in a Domain environment and using Domain labels separated with a dot. Examples of Domain labels separated with a dot name are: • MyProcess.com • MyProcess.org Refer to 3BSE034463-510_D_en_System 800xA_5.1_Network_Configuration manual, section Choosing Names for Domains and PCs. Additionally, license annoyance messages are not translated to the native language. The are displayed in English. Important 800xASRV-OL-5102-001	The problem has been corrected in the NLS component.

Fixed in 800xA 5.1 Revision B

This lists the issues that have been corrected in System Services in 800xA 5.1 Revision B.

Diagnostics Collection Tool

Table 30 lists the operation issues that have been corrected in the Diagnostics Collection Tool for 800xA 5.1 Revision B.

Table 30. Diagnostics Collection Tool Operational Issues

Issue	Correction or Fix
Installed Software and System Report Plug-ins do not identify and collect the Microsoft Windows Security Updates, Hotfixes and Patches. 800xADCT-OL-5110-002	This problem has been corrected.

Collect Software Consistency Data tool fails to collect data from 800xA nodes. Typically the failure happens in a 800xA system having more than 20 nodes, where data collection can fail after any node.
The following error messages are displayed in the Collecting Software Consistency Data window:
`Exception of type 'System.OutOfMemoryException' was thrown`
(or)
`The server did not provide a meaningful reply; this might be caused by a contract mismatch, a premature session shutdown, or an internal server error`
Important
800xADCT-OL-5110-001
	This problem has been corrected.

Fixed in 800xA 5.1 Revision A

This lists the issues that have been corrected in System Services in 800xA 5.1 Revision A.

Central Licensing System

Table 31 lists the Administration issues that have been corrected in the Central Licensing System for 800xA 5.1 Revision A.

Table 31. Central Licensing System Administration Issues

Issue	Correction or Fix
In rare scenarios, after a restart or shutdown of an 800xA node running the license client, the following error message is displayed on other nodes in the system. "Unable to communicate with CLS Server. Error returned while attempting to open connection = 0x80072efd". 800xASRV-AD-5100-001	Correction is made in the CLS Server component.

Structured Data Logger

Table 32 lists the Administration issues that have been corrected in the Structured Data Logger for 800xA 5.1 Revision A.

Table 32. Structured Data Logger Installation Issues

Issue	Correction or Fix
Structured Data Logger installation fails in the Autorun dialog displaying the error "file not found". 800xASDL-IN-5100-001	This problem has been corrected.

Fixed in 800xA 5.1

This lists the issues that have been corrected in System Services in 800xA 5.1.

SMS and e-mail Messaging

Table 33 lists the Administration issues that have been corrected in SMS and e-mail Messaging for 800xA 5.1.

Table 33. SMS and e-mail Messaging Administration Issues

Issue	Correction or Fix
SMS and e-mail Messaging does not support messaging in Chinese or Russian. Important 800xASRV-AD-5010-001	This problem has been corrected.

Central Licensing System

Table 34 and Table 35 list the Installation and Operation issues that have been corrected in the Central Licensing System for 800xA 5.1.

Table 34. Central Licensing System Installation Issues

Issue	Correction or Fix
On rare occasions, the System Installer may not install Central Licensing System software, but the System Installer status indicates successful installation of Central Licensing System software. 800xASRV-IN-5020-012	This is no longer an issue for System Version 5.1.

Table 35. Central Licensing System Operational Issues

Issue	Correction or Fix
Checkout operation from the License Entry application. A license error with the following text is displayed: Checkout error: System.AccessVioltionException..... 800xASRV-OL-5020-010	Open the License Entry Program and test checkout any of the features available in the license file. After a successful checkout or checkin of the license feature, a message box indicating the successful operation appears.
When license feature count exceeds the total feature quantity limit then, 1. In Use count for the feature displays "0" in License Usage aspect. 2. The feature is removed from the diagnosis information in License Assignment Editor. 800xASRV-OL-5020-005	A warning message for license count violation is displayed. In addition, License Status Viewer displays the license count violation message.

Diagnostics Collection Tool

Table 36 and Table 37 list the Installation and Administration issues that have been corrected in Diagnostics Collection Tool for 800xA 5.1.

Table 36. Diagnostics Collection Tool Installation Issues

Issue	Correction or Fix
During manual installation of DCT software, the Finish button in the installation wizard dialog is not enabled. 800xASRV-IN-5020-006	The Finish button is enabled to complete the installation process.

Table 36. Diagnostics Collection Tool Installation Issues (Continued)

Issue	Correction or Fix
When certain 800xA products are not installed on the default C: drive, their diagnostics data might not be collected properly. This applies to: - PPA - Control Builder M - ControlIT OPC Server for AC 800M/C - Batch Management - PLC Connect 800xASRV-IN-4100-005	DCT can collect data for 800xA products irrespective of the location at which the products are installed.

Table 37. Diagnostics Collection Tool Administration Issues

Issue	Correction or Fix
The DCT Plug-in components are lost when a "Repair" in the Add/Remove Programs is done. 800xASRV-AD-5010-002	The "Repair" option for DCT Plug-in components is removed.
The Dr Watson Plug-in cannot collect user dumps on Windows XP SP2 from Dr Watson default directory. 800xASRV-AD-5010-003	This is not a problem anymore. Dr.Watson Plug-in has been replaced by a new plug-in called Windows Error Reporting Plug-in (WER).

Instruction Manual Changes

Table 38 lists the Instruction Manual Changes issues that have been corrected in 800xA 5.1.

Table 38. Instruction Manual Corrections

Issue	Correction or Fix
Description on how to add AutoCollector file to Windows Scheduled Tasks is missing on page 62 below Scheduling page heading in the *Industrial^IT 800xA, System, Tools (2PAA101888R5021)* instruction. Important 800xASRV-MC-5020-008	The *System 800xA Tools (2PAA101888*)* instruction has been updated with the information on how to add AutoCollector file to Windows Scheduled Tasks.
The text below Analyze Software heading on page 92 in the *Industrial^IT 800xA, System, Tools (2PAA101888R5021)* instruction is not valid. "The Software Analyzer is used to: • View installed software on the different nodes. • Compare nodes. • Compare nodes against the standard configuration. • To compare the nodes with another collections." Important 800xASRV-MC-5020-009	The section *Analyse Software* in *System 800xA Tools (2PAA101888*)* instruction has been updated with the valid information.

Structured Data Logger

Table 39 and Table 40 list the Configuration and Operation issues that have been corrected in Structured Data Logger for 800xA 5.1.

Table 39. Structured Data Logger Configuration Issues

Issue	Correction or Fix
Long time use of Structured Data Logger causes an accumulative resource leakage. 800xASDL-CN-5020-009	There is no resource leakage.
The SDL Log Dataview returns an error if the corresponding SDL Log Type is changed. 800xASDL-CN-5020-002	No error is returned by SDL Log Dataview when corresponding SDL Log Type has been changed.
In certain situations, the SDL Log Type configuration window does not function during configuration. 800xASDL-CN-5020-005	The SDL Log Type configuration window now functions.
The Date/Time data type is not supported in Structured Data Logger. Important 800xASDL-CN-5020-008	The data type Date/Time is now supported.
Logging data of String data type may consume a long time (approximately 10 seconds for 10 string variables). Important 800xASDL-CN-5020-007	For more information, refer to *System 800xA Configuration (3BDS011222*).*

Table 40. Structured Data Logger Operational Issues

Issue	Correction or Fix
SDLCollector service may consume a long time to start if a large number of SDL Logs are defined (approximately 1 second per enabled SDL Log aspect.) 800xASDL-OL-5020-006	For more information, refer to *System 800xA Post Installation (3BUA000156*).*

Section 5 Engineering Studio

This section details the Fixed Problems for Engineering Studio that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 41 lists the Instructional Manual issues that have been corrected in Engineering Studio for 800xA 5.1 Revision E.

Table 41. Instruction Manual Correction

Issue	Correction or Fix
The information about referencing the cells dynamically under the section "Using Formulas Within a Data Area" is unavailable. 800xAENS-MC-5105-005	The required information is added in *System 800xA Engineering Studio (3BDS011223*).*
During a system update, performing the Generate Configuration Data for Function Diagrams, with Function Setting **ConnectLibsOnGenerateConfigData** set to "True", results in reconnecting old versions of Control Builder libraries instead of the new version.Important800xAENS-MC-5104-001	This has been updated in the user manual. Upgrade manual has been updated with the information to set the Function Setting ConnectLibsOnGenerateConfigData to False during update. After the update, Function Setting can be set to True. Refer to *System 800xA Installation and Upgrade Getting Started (2PAA111708*).*

Table 41. Instruction Manual Correction

Issue	Correction or Fix
For Extensible Parameters, only "*?*" or " ***" is displayed if the user selects the following option : "Subscribe for live data for connected output Ports". 800xAENS-MC-5105-002	This has been updated in the user manual. The following information has been added: *Subscribe for Live Data is. not supported for Extensible Parameters*. Refer to *System 800xA Engineering Studio Function Designer (3BDS011224*)*.
The information under Create Differences topic in the *System 800xA, Engineering Studio Function Designer (3BDS011224*)* is incorrect.	This problem has been corrected. The required information is added in *System 800xA Engineering Studio Function Designer (3BDS011224*)*.
IO Allocation to PROFIBUS modules whose names match reserved keywords such as AI, DI, DP, AO, DO fails with an error message "Please insert the signal under compatible board". 800xAENS-MC-5104-004	This has been updated in the user manual. Refer to the *Prerequisite for PROFIBUS Module Naming* section in *System 800xA Engineering Studio (3BDS011223*)*.
Allocation of multiple pulse signals to DP910*(F12 P) and DP910*(F12 F) cards performing Write Allocation into CBM, results in errors. Important 800xAENS-OL-5105-012	The problem has been corrected for DP910*(F12 F) card. Since the channel addressing is not continuous in DP910*(F12 P) card, multiple pulse signals cannot be allocated. This information has been updated in the user document. Refer to the *IO Allocation* section in S*ystem 800xA Engineering Studio (3BDS011223*)*.
For **CBM_Signals** allocated to IO Modules like AI895, **CBM_SignalParameter** aspect shows range as **4-20mA** where-as in Control Builder M the range is displayed as **4..20mA**. Important 800xAENS-OL-5103-029	The behavior has been documented in *System 800xA Engineering Studio (3BDS011223*)*. 4-20mA or 4..20mA can be used interchangeably without any impact on the functionality.

Fixed in 800xA 5.1 Revision D

This lists the Configuration, Operational, and Instructional Manual issues that have been corrected in Engineering Studio for 800xA 5.1 Revision D.

- Table 42 - Function Designer Issue

- Table 43 - IO Allocation Issue

- Table 44 - Bulk Data Manager Issue

- Table 45 - Topology Designer Issue

- Table 46 - Instruction Manual Corrections

Table 42. Function Designer Operational Issues

Issue	Correction or Fix
Width of the blocks in Function Diagram changes on opening the same in different 800xA nodes with different screen resolutions. Important 800xAENS-OL-5104-013	The problem has been corrected.
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 trigger connections to ports of these blocks to re-route. Important 800xAENS-OL-5102-026	Links in Function Diagrams are not routed after upgrade or opening in different monitor resolutions. Link positions are adjusted to accommodate increase in the block width.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
The **Edit > Find** functionality for Function Diagram does not give results when searching for a string with selected options. The **Find** field accepts a maximum of 35 characters. 800xAENS-OL-5103-006	**Edit > Find** functionality for Function Diagrams is fixed for search with the following options selected: • Component Name • Any String Under • Current diagram (all layers) • Current layer • Current page with **Search up** option unchecked. For a new search it is recommended to reopen the **Find** window.

Using a project constant multiple times in a Function Diagram may result in the following issues:
 	
For Function Diagrams based on Diagrams:
•   Error on generating the Configuration Data.
•   Missing Connection in Control Builder M.
 	
For Function Diagrams based on SCMs, the following message is displayed on generating the Configuration Data:
`Warning: Project constant with`
`same name <cxx.xx.xxxx>`
`existing.`
Important
800xAENS-OL-5104-004
	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
Operator Workplace stops responding due to following issues in the watch window: • If a structured data type variable is added to the Watch Window. • Expanding the variable. • Resizing the window size. Important 800xAENS-OL-5102-019	The problem has been corrected.
When opening another function diagram without saving an already opened function diagram, Function Designer prompts for saving the former diagram. In this case, sometimes the Workplace may stop responding. Important 800xAENS-OL-5103-028	The problem has been corrected.
Subscribe for Live Data Connected Output Ports, sometimes results in the following: • Engineering Workplace closes unintended while subscribing as an operator user. • Animated Links and Port Labels do not get saved even if the user saves the data after subscribing. Important 800xAENS-OL-5102-027	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
Generation of configuration data for a Function Diagram having page connectors, connected to different pages (higher page to lower page), may lead to an error. Important 800xAENS-OL-5140-005	The problem has been corrected.
Bulk printing of nested Function Diagram with Live values is not supported from documentation structure. Engineering Workplace stops responding while bulk printing of diagrams from documentation structure. SPL overview diagrams appear in the left top corner of a printed page if printed from document structure. Important 800xAENS-OL-5102-009	The problem has been corrected.
Printing Function Diagrams with live values is not possible from Documentation structure. Important 800xAENS-OL-5103-004	The problem has been corrected.
Engineering Workplace displays Insufficient memory error message and stops responding on printing Function Diagrams in bulk from root level. Important 800xAENS-OL-5104-012	The problem has been significantly reduced. **Note:** It is suggested to restart the Workplace before and after bulk printing.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
For a particular zoom, the size of blocks and the Function Diagram is different in remote desktop as compared to opening on a physical monitor. Important 800xAENS-OL-5023-009	The problem has been corrected. A hot fix has been given. To apply this hotfix, you must be running one of the following operating systems: • Windows 7 • Windows 7 Service Pack 1 (SP1) • Windows Server 2008 R2 • Windows Server 2008 R2 Service Pack 1 (SP1) The hotfix can be downloaded from the Microsoft support website under KB 2768741 titled Visual elements are displayed incorrectly when you connect to a computer that is running Windows 7 or Windows Server 2008 R2 by using the Remote Desktop Protocol.
Live device values are not updated on performing drag and drop of HART device instance in Control Structure to the BDM sheet. 800xAENS-OL-5024-026	The problem has been corrected.
Enabling Automatic Write Allocation into CBM and deploying the Function Diagram with Control Builder M signals that are allocated to controller in Control Builder M from Engineering to Production leads to the following error message: `Access Control Properties Failed` Important 800xAENS-OL-5103-013	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
Using Diagram Input Parameters (CBM Parameters) in a sequence may result in wrong code in following scenarios: • Connected to multiple pins of function. • Connected to calculation blocks like add, subtract and so on. Important 800xAENS-OL-5103-014	The problem has been corrected.
In a Function Designer Diagram, on connecting a CBM Signal to an input port through a splitter results in error on generating Configuration Data. 800xAENS-OL-5104-020	The problem has been corrected.
Updating System version from 5.1 to 5.1RevD with diagrams having PC device blocks and Generic Hart results in an error. Important 800xAENS-OL-5103-023	The problem has been corrected.
Connecting an input parameter of datatype Real to an external variable of type DINTIO, transforms a wrong variable to Control builder after generation of configuration data. 800xAENS-OL-5103-016	The problem has been corrected.
Connecting valid port of Communication Variable in Single Control Module function diagram results in an error on generating Configuration Data. Important 800xAENS-OL-5103-017	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
In SCM based Function Diagrams, If Invert is used on a Diagram Output Parameter inside step of a sequence, on generation of Configuration Data corresponding logic is not transformed to Control Builder M. Important 800xAENS-OL-5102-021	The problem has been corrected.
In Function Diagram created sequences, if the transition logic contains more than a certain number of logical blocks, on generating Configuration Data, it may result in wrong logic in **Control Builder M**. Important 800xAENS-OL-5103-031	The problem has been corrected.
In **CBM_signalParameter** aspect, if the signal range includes the < symbol, while saving it is replaced by a space. 800xAENS-OL-5102-007	The problem has been corrected.
Changing the data flow order in SFC and on generating Configuration Data (full build), does not change the traffic light status and code generation. 800xAENS-OL-5024-024	The problem has been corrected.
Opening and closing of Function Diagram leaks Graphic Device Interface (GDI) objects. Due to this, Workplace application may stop responding after extensive opening and closing of Function Diagram for long duration. Important 800xAENS-OL-5104-002	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
In a Function Diagram if a global / communication variable is connected to a page connector, then, on subscribing to live data wrong value is updated for the link connected to the page connector. 800xAENS-OL-5140-006	The problem has been corrected.
In some instances Workplace stops responding on copy paste of a Function Diagram and renaming it from Structure browser. Important 800xAENS-OL-5104-018	The problem has been corrected.
On disabling **Subscribe for Live Data Connected Output Ports**, a function diagram having a reference from another function diagram results in disabling the subscription for both the diagrams and navigating to the first diagram. Important 800xAENS-OL-5103-025	The problem has been corrected.
Connecting a variable of data type 'Bool' to an input port of data type 'Real' results in internal Compiler error in Control Builder. 800xAENS-OL-5103-021	The problem has been corrected.
If copy-and-paste is done to configure steps, transitions or actions across the same sequence; connection links are not renamed or modified. Important 800xAENS-OL-5102-014	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
In Engineering Workplace, changing the name of an object in **Name** aspect changes the **Control Builder Name** aspect. Important 800xAENS-OL-5104-015	This enhancement is implemented as new functionality. Refer **Functionality Changes** section in *System 800xA 5.1 Rev D Release Notes New Functions and Known Problems (2Paa111287*)* Release Notes.
On upgrading System version from 4.1 to 5.1, variable references (yellow references) are lost for the diagrams in the Function Designer. Important 800xAENS-OL-5104-005	The problem has been corrected.
Following issues are observed during printing: • Printout of Sequence Overview diagram is small and on left hand top corner. • Template footer is missing in step and transition diagrams. • On **Print Preview** of step or transition of sequence based diagram, save is enabled. Important 800xAENS-OL-5104-016	The problem has been corrected.
Logover does not work after opening / closing of a Function Diagram in the Operator Workplace. Important 800xAENS-OL-5022-016	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
In some rare instances, right-click on Function Aspect of a Function Diagram and navigating to **Aspect Info** tab under **Details** menu may cause the Workplace to stop responding. Important 800xAENS-OL-5024-025	The problem has been corrected.
While working with Function Diagrams having page connectors, the following error message is displayed on configuration data generation: `"PCn the associated page connector must have same link".` Scenarios: • If the Function Diagram is copy pasted using BDM or manually, and after paste the internal blocks connected to page connectors are re-named. • If the blocks connected to page connectors are renamed without opening the diagram from Functional Structure or using BDM. • If page connector is connected to a variable or diagram reference. Important 800xAENS-OL-5140-002	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
In a SPL based Function Diagram if there is a parallel sequence with a jump under it, then generation of Configuration Data fails with the following error: `"Configuration data generation stopped! unable to proceed"`. 800xAENS-OL-5140-007	The problem has been corrected.
Printing of Function Diagrams using **use these settings and update in all diagrams / contents** option**,** does not save page setting and printer setting in respective diagram. Important 800xAENS-OL-5104-017	The problem has been corrected.
Channelinfo aspect in AI835A and AO815 module of S800CI840CI854HwLib 1.1-5 library is missing. 800xAENS-OL-5103-019	The problem has been corrected.
Writing a Project Constant to a Diagram Output Parameters on a Step Action Page fails. 800xAENS-OL-5102-022	The problem has been corrected.
When an MMS receiver diagram, created and generated by MMS cross-communication, is opened manually, diagram state changes from green to red. Important 800xAENS-OL-5104-003	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
If a Global Variable is defined in CBM and is connected to a diagram reference in a function designer single control module diagram, navigation for the connected variable is not possible. Important 800xAENS-OL-5104-027	The problem has been corrected.
Reference information (yellow reference) for Communication Variables having characters from different languages such as German or Swedish (for example Ä,ä), are not displayed in sender or receiver diagrams. Important 800xAENS-OL-5104-028	The problem has been corrected.
XML export does not include the extensible parameters information of Function Blocks or Control Modules, which results in incomplete data while import. Important 800xAENS-OL-5104-026	The problem has been corrected.
During the system upgrade, for certain diagrams with Communication Variables whose cycle time is null / blank, code generation error occurs. Important 800xAENS-OL-5104-029	The problem has been corrected.

Table 42. Function Designer Operational Issues (Continued)

Issue	Correction or Fix
Sometimes, when a Function Diagram is exported using Import/Export tool and is compared with the production system, Import/Export difference report may not show the correct comparison. Important 800xAENS-OL-5104-031	The problem has been corrected.
Generating Configuration Data of a Function Diagram containing overlapping or closely spaced page connectors may result in error. 800xAENS-OL-5100-014	Rearrange the specific page connectors before generating configuration data for the Function Diagram.
Usage of Paste Rename functionality for copy paste operation in Function Diagrams results in an error. Important 800xAENS-OL-5103-011	The problem has been corrected. This enhancement is implemented as new functionality. Refer **Functionality Changes** section in *System 800xA 5.1 Rev D Release Notes New Functions and Known Problems (2Paa111287*)* Release Notes.

Table 43. IO Allocation Operational Issues

Issue	Correction or Fix
I/O allocation may display incomplete I/O address in the following scenarios: • Project is upgraded from previous versions. • If the I/O board is replaced with another type. 800xAENS-OL-5103-022	The problem has been corrected.

Table 43. IO Allocation Operational Issues (Continued)

Issue	Correction or Fix
IO Allocation tool results in error during 'write allocation to CBM', which disappears when the operation is repeated. Important 800xAENS-OL-5104-011	The problem has been corrected.
While trying to allocate Digital output signals to Dx910 (DIO8 S) board under S900IOCI854HWLib, IO allocation results in error. Important 800xAENS-OL-5103-012	The problem has been corrected.
For a CBM Signal, after change in the properties of **CBM_SignalParameter** aspect, transfer of data of the allocated IO to Control Builder M is inconsistent. The user is not informed to perform **Write Allocation to CBM** or **Configuration Data Generation** to transfer the changes to Control Builder M. Important 800xAENS-OL-5025-006	The problem has been corrected.

Allocation of multiple pulse signals to the boards results in the following error while generating the configuration data:
`'Access Control Properties Failed'.`
`'Unspecified error'.`
 	
800xAENS-OL-5104-021
	The problem has been corrected.

Table 43. IO Allocation Operational Issues (Continued)

Issue	Correction or Fix
If the names of the Control Application and one of its Single Control Module are same, then following issue occurs: • Work place stops responding during Configuration data generation for the Function Diagrams having signal objects. • IO-Allocation tool stops responding on writing signal information to CBM during **Write Allocation into CBM.** In Control Structure, if the name of the Control Application object starts with a numerical value, then during configuration data generation following warning message is displayed: `'Warning xControlApplication Name is not connected to any controllernspecified error'` Important 800xAENS-OL-5103-032	The problem has been corrected.
Allocation of HART signal to S900 IO-card fails with following error message: `Some channels and signal types do not fit` 800xAENS-OL-5103-007	The problem has been corrected.

Table 44. Bulk Data Manager Operational Issues

Issue	Correction or Fix
Document Manager-Parameter Manager aspect does not work in MS-Office 2013. Important 800xAENS-OL-5104-037	The problem has been corrected
Running **LBEInstallAddin.exe** after Upgrading Microsoft Office from earlier version to MS-Office 2013 fails. Technical Description: 9ARD134783-207 Important 800xAENS-OL-5104-035	Browse and run RegVBAddins.bat from the following location: `C:\Program Files (x86)\ABB Industrial IT\EngineerIT\Engineering Studio\Bulk Data Manager\bin`

Table 45. Topology Designer Operational Issues

Issue	Correction or Fix
CI854 and CI840 modules in Control Structure cannot be re-named using Bulk Data Manager. 800xAENS-OL-5103-018	The problem has been corrected.

Table 46. Instruction Manual Corrections

Issue	Correction or Fix
If a connection is made between output port of a block having higher dataflow order and the input port of another block having lower dataflow order, attribute of connected link variable is set to nosort. In order to ensure that the values are retained, it is advisable to make connections via local variables. Important 800xAENS-MC-5104-002	This has been updated in the User Manual.
All the local language parameters used in Function Diagrams need to be changed to English prior to the upgrade. Using non-English parameters in Function Diagrams results in errors while generating configuration data. Important 800xAENS-MC-5104-003	This has been updated in the User Manual.
In SPL based diagrams connecting an Output Diagram Reference having a Communication Variable to the Step Output port of a sequence does not work. 800xAENS-MC-5104-005	This has been updated in the User Manual.
When a PCC variable is added between PCC output of one block to PCC pin of another block, a page connector error occurs stating the port could not be found and configuration data generation stops. Important 800xAENS-MC-5104-006	This has been updated in the User Manual.

Table 46. Instruction Manual Corrections (Continued)

Issue	Correction or Fix
If a .gsd file, having module names starting with "DP-" is imported to the 800xA system and is used in IO allocation tool, datatype of channels changes to 'Pulse'. Important 800xAENS-MC-5104-004	Before importing a .gsd file, open it and change the module names starting with "DP-" to some other name and save it.
After the System is upgraded, some of the Function Diagrams are modified. This happens due to modification of the Standard and BU specific libraries. Following are some of the instances were Function Diagrams are modified, when there are: • Changes in properties of the parameter except FDport. • Change in the CMT type. 800xAENS-MC-5102-004	Configuration Data Generation needs to be performed for such Function Diagrams.

Fixed in 800xA 5.1 Revision C

This lists the Operational issues that have been corrected in Engineering Studio for 800xA 5.1 Revision C.

- Table 49 - Function Designer Issues

- Table 48 - IO Allocation Issues

Table 47. Function Designer, Operational Issues

Issue	Correction or Fix
Logover does not work after opening / closing of a Function Diagram in the Operator Workplace. 800xAENS-OL-5022-016	This problem has been corrected.

While analyzing the MMS communication between different controllers, unconnected applications in AC800M HI project displays following error message:
`Error:Application is not`
`allocated: CTA.`
                    800xAENS-OL-5101-019
	This problem has been corrected.
	If there is an unconnected application, instead of error, warning message is displayed. This warning message can be ignored.
	Note:
	After **MMS Analyze and Create operations**, if 0 errors and 0 warnings are displayed, users are advised to check the drop down list.

In Single Control Module based Function Diagram, if the Valid port of a Communication variable is connected to a variable of data type dword, Configuration Data Generation and subsequent download of the application to Controller, results in Control Builder M displaying the following error:
`Type of parameter is dword; type`
`of variable`
`DemoCommunicationVariable_V is`
`bool' : incompatible data types`
`(ID #1).`
                    800xAENS-OL-5103-017
	This problem has been corrected.

Table 47. Function Designer, Operational Issues

Issue	Correction or Fix
Import of back-up or restore of an AFW file containing Function Diagram Document with a property value '&', fails with the following error: `Transaction Error: Operation Aborted.` 800xAENS-OL-5102-007	This problem has been corrected.

Table 48. IO Allocation, Operational Issues

Issue	Correction or Fix
Allocation of HART signal to AI 930 IO-card fails with following error message: `Some channels and signal types do not fit.` 800xAENS-OL-5103-007	This problem has been corrected.
Allocation of digital output signal to DX 910 IOcard fails with following error message: `Please Insert the signal under compatible Board.` 800xAENS-OL-5103-012	This problem has been corrected.

Fixed in 800xA 5.1 Revision B

This lists the Operation, and Instruction Manual Changes issues that have been corrected in Engineering Studio for 800xA 5.1 Revision B.

- Table 49 - Function Designer Issues
- Table 50 - Bulk Data Manager Issues
- Table 51 - IO Allocation Issues

- Table 52 - Instruction Manual Changes Issues

Table 49. Function Designer, Operational Issues

Issue	Correction or Fix
When a new Receiver diagram/application is added to the existing sender application, communication does not happen between sender and new receiver, after performing MMS **Create Difference**. 800xAENS-OL-5025-008	This problem has been corrected. MMS **Create Difference** requires warm download for sender diagram and modified receiver diagram, along with all associated receiver diagrams of that sender.
An error `Jumps of SPL OverviewDiagram wrong configured! Check that one jump has selection as parent and exactly one target` is generated while performing Configuration Data Generation in Function Diagram. Following condition generates error message: • In branching sequence, if one transition is connected to jump and another to Simultaneous sequence. 800xAENS-OL-5025-001	This problem has been corrected.
For the Function Blocks with name and description ports, following error message is displayed during the Configuration Data Generation: `ControlBuilder Name too long` 800xAENS-OL-5025-002	This problem has been corrected. For more information, refer to *System 800xA Engineering, Engineering Workplace Function Designer (*3BDS011224 *).*

Table 49. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
Global Variables used in the Single Control Modules created by a Function Diagram do not hold the respective variable attributes (Retain, Coldretain) in AC800M controller. The variables do not have attribute values set and behave as no attributes. 800xAENS-OL-5101-014	This problem has been corrected.
Communication Variable used in a Single Control Module created by the Function Diagram always holds interval time as normal in Control Builder M. 800xAENS-OL-5101-015	This problem has been corrected.
Decimal part of the value for Maximum and Minimum properties in CBM_SignalParameter aspect is truncated during allocation of signals to Control Builder M or exporting the aspect using Import/ Export tool. 800xAENS-OL-5101-012	This problem has been corrected.
In SFC viewer, diagram references configured in the steps of a sequence block are displayed repeatedly in the Function Designer. 800xAENS-OL-5101-017	This problem has been corrected.
For a new diagram, connection to step output cannot be established through action diagram or ports of step block. 800xAENS-OL-5101-011	This problem has been corrected.

Table 49. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
In the Function Diagram, (Single Control Module only) if a local variable of Structured Data Type (i.e BoolIO, RealIO) is configured, assigned with instance specific initial value and deleted. Configuration Data Generation and subsequent download of relevant application to the Controller from Control Builder M displays an error message `Bad POU Instance Path` Product Bulletin: 9ARD120523-100 800xAENS-OL-5102-015	This problem has been corrected.
In some instances, when a group of blocks from one page is copied between pages or across diagrams, after closing and reopening the Function Designer, Function Designer displays all the modules on the upper left corner of the screen. 800xAENS-OL-5024-022	This problem has been corrected.
MMS **Create/ Create Difference** has following issues: • During MMS Generation an error message `Runtime error R6025 pure virtual function` is displayed, if you click Ok Workplace closes. • MMS **Create Difference** does not create the required receiver diagram that has been identified by **MMS Analyze**. 800xAENS-OL-5025-003	This problem has been corrected.

Table 49. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
In some instances, while opening Function Diagram, following errors are displayed: • Representation of SFC overview diagram is altered. • Function Blocks that are placed in one page in Function Diagrams are spread across pages. • Text comments are deleted in Function Diagrams. • Template loses the information. 800xAENS-OL-5024-021	This problem has been corrected.
In some instances, Engineering Workplace closes while opening a diagram with online labels not attached to symbols. 800xAENS-OL-5024-018	This problem has been corrected.

Table 49. Function Designer, Operational Issues (Continued)
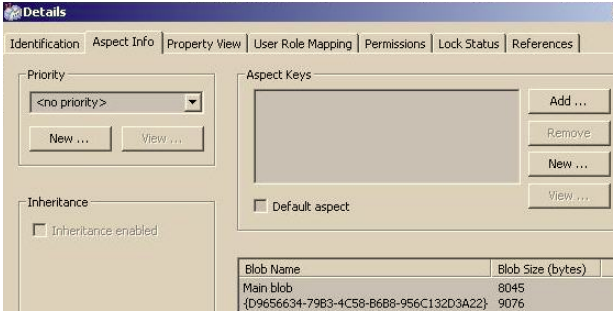
Issue	Correction or Fix
In some instances, working with large sequence function diagrams for a long time without closing or restarting Engineering Workplace leads to an error message `Insufficient Memory`. 800xAENS-OL-5024-017	The problem has been significantly reduced by: -Splitting the Function Aspect and saving it into two blobs. -Optimizing Memory utilization To view blob split, in **Engineering Workplace** right click on **Function** Aspect. Details window is displayed: **Note:** - Backup / Restore System backup taken after installing Engineering Studio 5.0 SP2 RU4 TC1 can be restored in revisions containing this correction (For example in System 800xA 5.0 SP2 Rev E). - Performance of Copy Paste operation of the Function Diagram in BDM for ES 5.1.0/2 is low compared to 5.1.0/1. - Export / Import Function Diagrams imported after installing Engineering Studio 5.0 SP2 RU4 TC1 can be imported in revisions containing this correction (For example in System 800xA 5.0 SP2 Rev E).

Table 49. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
Communication Variable used in Single Control Module created by Function Diagram as Input reference does not hold the respective Variable Attributes and Initial Value in Control Builder M. 800xAENS-OL-5101-013	This problem has been corrected Perform **Generate Configuration Data** in Function Diagram to update the respective Variable Attributes and Initial Value in Control Builder M.
AC 800M system functions, SUB, GT, GE, LT and LE may give inaccurate results when used in a Function Diagram. Product Alert: 3BSE047421D0098 800xACON-OL-5100-071	This problem has been corrected
Operator Workplace stops responding with *Insufficient Memory* error message due to multiple face plates that are called from graphic display. This is due to unnecessary loading of Function Diagram data. 800xAENS-OL-5024-023	The problem has been significantly reduced.
If an output port of a block is connected to a page connector and a Communication Variable, Configuration Data generation fails with the following error: `PC1 The associated page connector must have the same link.` 800xAENS-OL-5102-016	This problem has been corrected.
A Jump is configured in a sub-branch and if it is not connected back to either the initial step or the main branch, then the Engineering Workplace stops responding or creates various error messages. Important 800xAENS-OL-5100-005	This problem has been corrected.

Table 49. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
On upgrading an 800xA 5.0 system to 800xA 5.1 Revision A, the document aspect has stopped responding due to an error in formation of XML Schema, and the property values contain < or > symbols. 800xAENS-OL-5102-018	This problem has been corrected.
When an user changes the grid spacing of a sequence diagram, the sequence is disturbed with steps and transitions overlapping each other. 800xAENS-OL-5102-017	This problem has been corrected Whenever there is an change in grid spacing following warning message is displayed: `Changing Grid Setting can lead to overlap of steps and transitions, Do you want to continue?` **Note:** Users can ignore this warning message.
In the Function Diagram, connecting same structured variable to pins of multiple blocks such as AND,OR,Gt,LT, control builder M displays an error message. 800xAENS-OL-5102-020	This problem has been corrected.
The attributes of a diagram variable connected to an output diagram reference, gets reset while connecting to an input diagram reference. 800xAENS-OL-5102-001	This problem has been corrected.
Issue related to navigation from Action Window of SFC Viewer with respect to Functional Settings /DiagramNameSuffix of Functional Designer. 800xAENS-OL-5101-018	This problem has been corrected.

Table 49. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
Problem in displaying the Signal parameter information of Hart Transmitters and Hart Actuators in Function Diagram. 800xAENS-OL-5102-012	This problem has been corrected.
If a Function Diagram is reserved by a user then all the communication variables created in the same diagram are reserved. If a different user tries to use the reserved communication variable in another Function Diagram an error message is shown. 800xAENS-OL-5102-023	This problem has been corrected.
Operator Workplace stops responding due to following issues in the watch window: • If a structured data type variable is added to the WatchWindow • Expanding the variable • Resizing the window size 800xAENS-OL-5102-019	This problem has been corrected.

Table 49. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
In some instances, an error message does not appear when **MMS > Analyze** is performed after a diagram variable is connected to multiple output references and multiple / single input reference. Important 800xAENS-OL-5101-001	This problem has been corrected.
In **CBM_signalParameter** aspect, if the signal range property value contains the < symbol, if the user tries to create the instance of that aspect i.e copy and paste operation, < symbol is replaced by a space during the generation of the XML. The Import/Export tool fails to import *.AFW* file containing a Function Diagram Document that uses a '&' symbol in the Title Field. An error `Insert aspect failed` is displayed. 800xAENS-OL-5102-007	This problem has been corrected Following problem has not been fixed: The Import/Export tool fails to import *.AFW* file containing a Function Diagram Document that uses a '&' symbol in the Title Field. An error `Insert aspect failed` is displayed.

Table 50. Bulk Data Manager

Issue	Correction or Fix
When the Bulk Data Manager Excel file is saved on the network drive and reopened following error message is displayed: `\\ network \filename_Lov.xlsx" cannot be found. Check your spelling, or try a different path` 800xAENS-OL-5025-004	This problem has been corrected.

Table 50. Bulk Data Manager

Issue	Correction or Fix
When a Function Diagram is copied and pasted manually or by using Bulk Data Manager, the diagram variables do not get renamed as expected. 800xAENS-OL-5102-003	This problem has been corrected.
BDM stops responding when *BDM_DiagramRef_Var_Adv.xls* template is opened from Engineering Work place. 800xAENS-OL-5025-019	This problem has been corrected.

Table 51. IO Allocation, Operational Issues

Issue	Correction or Fix
While selecting HIMA specific board using Insert Board option of IO Allocation following error message is displayed: *SmAlloc MFC Application has encountered a problem and needs to close* 800xAENS-OL-5025-005	This problem has been corrected.
On performing IO allocation, updating the properties of **CBM_SignalParameter** with respect to the **CBM hardware properties** is not possible. 800xAENS-OL-5102-024	This problem has been corrected. In order to update the properties of CBM_SignalParameter with respect to the CBM hardware properties, deselect **Automatic write allocation to CBM** and perform **Configuration Data Generation** or **Write Allocation to CBM** from IO allocation.

Table 51. IO Allocation, Operational Issues

Issue	Correction or Fix
While Instantiating the signal groups in the Function Structure. Default considered for Diagram concept is **Local Variable for Diagram** instead of **Local Variable on Diagram of Structured data Type**. Default considered for Single Control Module is **Application Global Variable** instead of **Application Global variable of structure data type**. 800xAENS-OL-5102-008	This problem has been corrected.
Allocating the AO variable to channel no.9 of AI835A gives an error. 800xAENS-OL-5102-010	This problem has been corrected.

Table 52. Instruction Manual Correction

Issue	Correction or Fix
User defined or customized SFC2DHeader is not supported. If the SFC2DHeader is used then it would display an error message `Syntax Error in XML` while performing Configuration Data Generation. SFC2DHeader is supported only for Function Diagram created in Single Control Module (SCM) 800xAENS-MC-5100-002	The section Basic Operation in *System 800xA Engineering Studio Function Designer Getting Started (3BDS100968*)* information has been updated.

Table 52. Instruction Manual Correction

Issue	Correction or Fix
Connecting Diagram parameters to TMin or TMax of a step causes inconsistency in the sequence, hence add local variables instead of Diagram parameters. 800xAENS-MC-5102-001	The section Basic Operation in *System 800xA Engineering Studio Function Designer Getting Started (3BDS100968*)* information has been updated. with the valid information.

Connecting default port of the Transition in Sequence 2D to the other system functions and performing Configuration Data Generation results in following errors:
 	
`Error: Network <__link8C43A5DBx>`
`: Missing input port at internal`
`link`
 	
`Error: Function Designer diagram`
`/ allocatable group has`
`inconsistent data; data could`
`not be transferred`
`into CBM.`
 	
`Error: Error reading Function`
`designer data`
 	
`Error: Configuration data`
`generation stopped! Unable to`
`proceed!`
 	
800xAENS-MC-5102-003
	Default Connection **Sequence2D_1_FfromSFC.StepInfo1. TMinA** should not be deleted in a Transition 2D.
	
	The section Configuration in *System 800xA Engineering Studio Function Designer Getting Started (3BDS100968*)* information has been updated.

If an empty reference without the Communication Variables or Diagram Variables is connected across the pages through page connector, then Function Diagram gives an error during Configuration Data Generation. To avoid this make sure that empty input reference is on the same page of the connecting function block. 800xAENS-MC-5102-002	The section Configuration in *System 800xA Engineering Studio Function Designer (3BDS011224*)* information has been updated.

Table 52. Instruction Manual Correction

Issue	Correction or Fix
The Template information of an instantiated signal group object may be inconsistent while printing the Function Diagram. 800xAENS-OL-5100-002	Procedure to print the template information in a signal group has been added. For more information, refer Printing Documentation in section 3, Configuration in *System 800xA Engineering Studio Function Designer Getting Started (3BDS100968*)*

Fixed in 800xA 5.1 Revision A

This lists the Operation, and Instruction Manual Changes issues that have been corrected in Engineering Studio for 800xA 5.1 Revision A.

- Table 53 - Function Designer Issues
- Table 54 - Bulk Data Manager Issues
- Table 55 - Document Manager / Parameter Manager Issues
- Table 56 - Instruction Manual Changes Issues

Table 53. Function Designer, Operational Issues

Issue	Correction or Fix
In Function Designer, the text width of parameters, page references and labels of IO signals do not resize automatically according to the number of characters of the text. The modified parameter values also do not appear properly while printing the Function Diagram. Important 800xAENS-OL-5101-008	In Function Designer, the text width of parameters and page references resize automatically. The modified parameter values also appear properly while printing the Function Diagram by selecting A4 Landscape settings in the **Print** dialog. The labels of the IO signals do not resize automatically to ensure proper routing.
In some instances, the Workplace closes on opening of an SCM based Function Diagram. 800xAENS-OL-5101-002	Workplace does not close, and such SCM based Function Diagrams open with an error message.
In some instances of renaming objects, a message may appear informing the user that the newly selected name already exists, though the new name is not used in the selected Function Diagram. 800xAENS-OL-5101-003	This problem has been corrected.
Performing **MMS > Create** or **MMS > Create Differences** after successful Analysis results in improper error message. 800xAENS-OL-5101-006	A proper warning message appears as follows: *Diagram Names are exceeding the limit of 28 characters: XXX Please check.* For more information, refer to *Appendix A* in the *System 800xA Engineering, Engineering Studio Function Designer (3BDS011224*)* manual.

Table 53. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
In some instances of the following scenarios, Engineering Workplace closes while printing Function Diagrams: - On selecting any of the Port Documentation option for printing. - Printing diagrams in bulk. Also, if the printer is selected and the destination file name is given, then user can not cancel printing using the Cancel button. 800xAENS-OL-5100-003	This problem has been corrected.
In some instances, **MMS > Create Differences** results in error. 800xAENS-OL-5023-039	This problem has been corrected.
In some instances, drag and drop of a large aspect with XML properties on to a BDM sheet, results in the following error message: **Internal BDM Error**. 800xAENS-OL-5024-006	This problem has been corrected.
The renaming of the child objects occurs as explained below, when the Function Setting property **Name** is set as **Pattern**: Consider a Function Diagram *<Name_FD>* or *<Name_FuD>*, which contains a child object *<Name_1>*. If the Function Diagram is renamed, the suffix of the Function Diagram _FD or _FuD is automatically included in the name of the child object *<Name_FD_1>*. This issue also occurs for a Function Diagram with name containing a prefix such as FD_ or FuD_. 800xAENS-OL-5024-001	This problem has been corrected.

Table 53. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
Variables with attributes selected as **Constant** or **Hidden** are not downloaded to controller. 800xAENS-OL-5024-012	This problem has been corrected.
The **dword_to_real** system function is not present in Object Type Structure. 800xAENS-OL-5024-009	This problem has been corrected.
Workplace stops responding if multiple Function Diagrams are subscribed for live data and if any of the following actions are performed: 1. a variable is added to the watch window. 2. the connections within the diagrams are re-routed. 800xAENS-OL-5024-011	This problem has been corrected.
Duplicate links in an SPL diagram results in displaying improper error message, while generating configuration data. 800xAENS-OL-5024-010	This problem has been corrected so that a proper error message appears.
In sequences, if the name of a connection link variable is modified through the Aspect Properties dialog, then the Save button is not enabled in Function Designer. Without saving this modification, reopening the respective Function Diagram reverts the name of the connection link variable to the previously saved name and also converts the upper case letters to lower case letters. The connection link label is also not properly updated. 800xAENS-OL-5024-015	This problem has been corrected.

Table 53. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
While using **Online > Subscribe for Live Data For All Output Ports/ Subscribe for Live Data For Connected Output Ports**, the following issues exist: 1.The connection lines between any two boolean type In ports or Boolean variables connected to Boolean ports (In ports) do not indicate the proper color based on the value transferred between the ports. 2.The color of the connection lines between boolean ports changes from black to either green or red based on the transferred value (1 or 0 respectively). User cannot configure the green and red color scheme to red and blue color respectively using the function settings. Continued to the next page...	These problems have been corrected.

Table 53. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
In case of the Difference Report, the following issues exist: 1.In the NLS environment, modifications in the description do not appear in the Difference Report. Also the configuration data cannot be generated to the same diagram. 2. In the NLS environment, page connector and text box changes are not listed in the difference report. Additionally, the configuration data cannot be generated, when page connectors are used in Function Diagrams. 3.In the English and NLS environment, modifications in the diagram reference description do not appear in the difference report. 4. In the English and NLS environment, when the Aspect Properties / descriptions are modified to the values with multiple words, the difference report lists the changes in multiple lines. It is not listed as a single change. 800xAENS-OL-5100-024	These problems have been corrected.
In some instances, Engineering Workplace stops responding if a diagram is subscribed for live data and opened another diagram subsequently. 800xAENS-OL-5100-025	This problem has been corrected.

Table 53. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
Function Diagrams having more than three pages take more time to open. 800xAENS-OL-5100-026	This problem has been corrected.
When a Function Diagram containing an image in the display area is subscribed for live data, there is a steady increase in the GDI leak. This results in the closing of the Engineering Workplace. 800xAENS-OL-5024-002	This problem has been corrected.

Table 54. Bulk Data Manager

Issue	Correction or Fix
In Microsoft Office 2007, the **Update All Objects** operation of the Label_Report.xls engineering template results in the following error message: **Internal BDM Error**. 800xAENS-OL-5024-008	This problem has been corrected.
Consider an aspect (such as a DM-PM aspect and the general properties aspect) having a property with Data type field set to String and Value field containing a number. When this object is dragged and dropped on to a BDM sheet, then the string gets converted to a number. 800xAENS-OL-5024-003	This problem has been corrected. For details, refer to *Section 3, Bulk Data Manager* in the *System 800xA Engineering, Engineering Studio (3BDS011223-510)*.

Table 55. Document Manager / Parameter Manager

Issue	Correction or Fix
Loading of **Signal Extension for AC800M Connect** fails in an environment enabled system during the maintenance update. 800xAENS-OL-5024-007	This problem has been corrected.
In some instances, **Signal Extension for AC800M Connect** system extension cannot be loaded through the System Update Tool (SUT). 800xAENS-OL-5024-014	This problem has been corrected.

Table 56. Instruction Manual Corrections

Issue	Correction or Fix
Altering the MMS configuration by deleting diagram references or disconnecting the diagram variables may result in obsolete MMS generated diagrams and datatypes. These diagrams are not deleted automatically. 800xAENS-MC-5101-001	The obsolete diagrams need to be individually identified and deleted manually. For more information, refer to *Appendix A* in the *System 800xA Engineering, Engineering Studio Function Designer (3BDS011224*)* manual.
Configuring and deploying of MMS Cross communication in an Environment enabled system is to be documented. 800xAENS-MC-5101-002	Configure and Deploy method of transferring information from an Engineering System to the Production Environment of the Production System uses the Export and Import functions to transfer information. For more information, refer to *Configure and Deploy,* in the *System 800xA Engineering, Engineering and Production Environments (3BSE045030*)* manual.

Table 56. Instruction Manual Corrections (Continued)

Issue	Correction or Fix
Adequate procedures to resolve control loops created in code blocks are not provided in the *System 800xA Engineering, Engineering Studio Function Designer (3BDS011224-510)* manual. 800xAENS-MC-5024-001	Various procedures to solve different types of control loops created in code blocks are explained in *Section 2, Configuration* within the subsection *Defining Data Flow Order in Allocatable Groups*.
Prerequisites to achieve the desired printing order of sequences are not explained in the *System 800xA Engineering, Engineering Studio Function Designer Getting Started (3BDS100968*)* manual. 800xAENS-MC-5024-002	Prerequisites to achieve the desired printing order of sequences are explained in *Section 2, Basic Operation* within the subsection *Types of Sequences*.
Recommendation regarding the disabling of **Automatic Write Allocation into CBM** in the IO Allocation tool before allocating IO signals through Bulk Data Manager is missing in the *System 800xA Engineering, Engineering Studio (3BDS011223-510)* manual. 800xAENS-MC-5024-003	Information to disable the **Automatic Write Allocation into CBM** in the IO Allocation tool before allocating IO signals through Bulk Data Manager, is updated in *Section 4, IO Allocation*.

Fixed in 800xA 5.1

This lists the Operation, and Instruction Manual Changes issues that have been corrected in Engineering Studio for 800xA 5.1.

- Table 57 - Function Designer Issues

- Table 58 - Bulk Data Manager Issues

- Table 59 - Document Manager / Parameter Manager Issues

- Table 60 - Function Designer (Before System Version 5.1) Issues

- Table 61 - IO Allocation Issues

- Table 62 - Instruction Manual Changes Issues

Table 57. Function Designer, Operational Issues

Issue	Correction or Fix
In a multi node system, the performance (opening the diagram, generating configuration data, inserting references) of the engineering client is significantly reduced while working in the Function Diagrams having large sequences. Important 800xAENS-OL-5100-001	This problem has been corrected.
Multiple cast is not supported in Engineering Studio. For example bool and system.bool are considered as different data types. Also Real, int and the respective system.Real, system.int are treated as different data types. Important 800xAENS-OL-5100-008	This problem has been corrected.
The Workplace suspends when the **Find/Replace** tool is used in Function Designer. Important 800xAENS-OL-5023-029	This problem has been corrected.
Opening and closing a large sized Function Diagram or a Function Diagram having large sequences results in huge memory leak. This memory leak accumulates and leads to suspension of the Workplace. Important 800xAENS-OL-5023-040	This problem has been corrected.

Table 57. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
While opening or renaming a diagram variable in a Function Diagram that is connected to several Function Diagrams through diagram references, frequently leads to situations of insufficient memory and this results in the closing of the Workplace. Important 800xAENS-OL-5023-041	This problem has been corrected. Two new Function Setting properties are included. Set **VarCrossRef_Include_DiagRef** to False to use the memory optimally. This significantly reduces the occurrences of insufficient memory. For more information, refer to *System 800xA Engineering Studio Function Designer (3BDS011224*)*.
If a diagram variable is connected to a Step (e.g: N port of a Step) of a Sequence block, configuration data generation creates the diagram variable as a local variable in the Control Builder M. Important 800xAENS-OL-5023-042	This problem has been corrected.
Engineering Workplace stops responding, when **File > Create Contents…** is performed in a Function Diagram. This situation occurs when the Function Diagram is instantiated with control modules / function blocks containing user defined Function icon. Important 800xAENS-OL-5023-043	This problem has been corrected.
The hidden ports do not work properly when control modules or Function blocks are inserted using **Insert Objects** dialog. Any connection made to the hidden ports after making them visible, are lost on reopening the Function Diagram. Important 800xAENS-OL-5023-044	This problem has been corrected.

Table 57. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
The font properties of Name and Description parameters of a control module / function block are reset to the default values, while renaming the component using: 1. **Aspect Properties** dialog 2. Bulk Data Manager 3. **Name** Aspect Important 800xAENS-OL-5023-045	This problem has been corrected for all ports. The font properties are maintained when the value of the parameter or port is changed.
The overview of SPL diagrams appears in a corner of a printed page of A4 paper. This occurs for SPL diagrams of a Sequence block instantiated on a Function Diagram with A4 landscape template. Important 800xAENS-OL-5023-046	This problem has been corrected while printing SPL overview diagrams instantiated in a Function Diagram using A4 landscape template and A4 paper.
If the **Visible property** of a port in the **Aspect Properties** window is changed, the connection to the variable **_linkn** is deleted. 800xAENS-OL-5022-017	If the **Visible property** of a port in the **Aspect Properties** window is changed, the connection to the variable **_linkn** do not get deleted.
Cut & Paste of CM/FB Aspect Objects and nested diagrams does not work. It is working fine for CM/FB Symbol Objects, functions, IO signals, diagram parameters, diagram references, variables. 800xAENS-OL-5001-025	This problem has been corrected.

Table 57. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
The IO Allocation command "Write Allocation into CBM" deletes manually created application global variables and hardware connection strings in the following case: Sig1 of AI810 is allocated to channel 1 and written into CBM by use of IO Allocation while sig2 is not placed below AI810 but manually added into the connection string of channel2. Now take the whole IO board and perform command "Write Allocation into CBM". As a result the connection string in channel 2 is deleted as well as the related global variable sig2. 800xAENS-OL-5001-030	For more information, refer to *System 800xA Engineering Studio (3BDS011223-510).*
Importing a Control Application / Control Project to a production environment after instantiating an object using Function Designer is changing the timestamp of Control Properties Aspect. This makes the Import/Export tool always show differences even though there are no changes made in any of the aspects. Important 800xAENS-OL-5020-055	This problem has been corrected.
Generate Configuration Data results in an error when a diagram reference is connected to TMin/TMax of a step in a sequence diagram. Important 800xAENS-OL-5020-049	This problem has been corrected.

Table 57. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
If upgrading a Control Builder M project from System Version 4.1 to System Version 5.0 SP2 ends successfully with some notification messages regarding Multiple Invocation, then opening the specific Function Diagram related to the message may crash Function Designer. Important 800xAENS-OL-5020-041	For more information, refer to *System 800xA Engineering Studio Function Designer (3BDS011224-510).*
In Functional Structure copying a Function Diagram and pasting it under some other parent object is not possible. This is happening only if the source parent diagram is already allocated to an application and configuration data generated. 800xAENS-OL-5020-016	This problem has been corrected.
Opening a Function Diagram is changing the timestamp of Function Parameters aspect. This makes the Import/Export tool always show differences even though there are no changes made in any of the aspects. Important 800xAENS-OL-5020-012	This problem has been corrected.

Table 57. Function Designer, Operational Issues (Continued)

Issue	Correction or Fix
Restoring System Version 4.1 or System Version 3.1 backups on System Version 5.0 or higher version systems shows **Too** many aspects of category 'Function **Parameters' on Object 'AlarmCondM**' error in the following scenarios: 1. While loading Function Designer for AC800M SB2 system extension. 2. If obsolete Function or Function Parameter aspect is present in AlarmCondM object of AlarmEventLib 1.0.0 SB2 library in Object Type Structure. Important 800xAENS-OL-5000-049	This problem has been corrected.
An input or output port is already connected to some constant or variable. Plant Explorer may loop in case you link this already connected port to another one by dragging the mouse. 800xAENS-OL-5000-027	This problem has been corrected.

Table 58. Bulk Data Manager

Issue	Correction or Fix
Bulk Data Manager is showing errors while creating multiple Trend Display aspects with different variables in a single object using TrendConfig.xls template. Important 800xAENS-OL-5020-050	Follow the steps below to resolve this issue: 1. Create multiple Trend Display aspects in a single object using standard Bulk Data Manager. 2. Use TrendConfig.xls to configure/update its variables and properties. **Note:** For more information refer to the TrendConfig help.
Most of the Log Configuration aspects are getting deleted while writing property logs into the system using standard Bulk Data Manager template. Important 800xAENS-OL-5020-033	This problem has been corrected.

Table 59. Document Manager / Parameter Manager

Issue	Correction or Fix
Many import/export errors appear if **DM & PM Application** system extension is loaded before **Engineering Base** system extension. Important 800xAENS-OL-5020-030	Ignore the error messages and proceed further operations.

Table 60. Function Designer (Before System Version 5.1), Corrected Operational Issues

Issue	Correction or Fix
Configuration data generation of a sequence block containing an input diagram reference connected to the input terminals of two system functions creates a wrong configuration in Control Builder M. Important 800xAENS-OL-5100-017	This problem has been corrected.
A CrossCommunication object is only allowed as child of one level: Either parallel objects on project level (in case of several projects) or parallel objects on Network level (in case of several Networks) or only one object on Root level. There is no MMS option present to check this automatically in order to prevent mistakes. Important 800xAENS-OL-5020-040	An information is provided to inform the user that the Cross Communication is not possible in multiple levels.

Table 61. IO Allocation, Operational Issues

Issue	Correction or Fix
The following IO boards may cause errors when writing data into Control Builder M: • AO910* (AO4) below CI851: Parameter name RANGE_2, etc. is unknown or has an invalid value,.... • DP840 below CI851 or CI854: PRIT (Prog interval timer ch n). The picklist for this property defines a leading blank for its values, • DSDP140 B: when de-allocating a signal from this IO board IO Allocation may terminate. 800xAENS-OL-5000-004	This problem has been corrected.

Table 62. Instruction Manual Corrections

Issue	Correction or Fix
Missing caution box under the sub heading **Create Differences** in **Appendix A** of *System 800xA Engineering Studio Function Designer, 3BDS011224-510 manual.* Important 800xAENS-MC-5100-001	**Information box:** If the MMS Control Modules are modified due to **MMS > Create** or **MMS > Create Differences** operation and the changes are downloaded to the controller, the following problems exist for those alarms: 1. The status of the active alarms does not change in the alarm list, when alarm condition recovers to normal. 2. The existing unacknowledged MMS alarms cannot be acknowledged. However, the new alarms appear normally along with the existing list. Delete these alarms manually from the alarm list. To prevent this situation, ensure that there are no alarms related to MMS, before performing the **MMS > Create** or **MMS > Create Differences** operation.

Section 6 AC 800M

This section details the Fixed Problems for AC 800M that have been fixed in the system at the time of release.

All corrections are applicable for both Process Automation and High Integrity controllers, unless stated otherwise.

Fixed in 800xA 5.1 Revision E

Table 64 lists the Administration, Configuration, and Operational issues that have been corrected in AC 800M in this release.

Table 63. Configuration - 800xA 5.1 Rev E

Issue	Correction or Fix
Restart when I/O Connections Removed or Added During a cold or warm restart of a controller a memory corruption of the controller memory could occur or the controller could fail to restart (crash). 800xACON-CN-5100-081 Product Alert 3BSE047421D0168	This problem has been corrected for PA controller firmware in BasicHWLib 5.1.0 build 5.1.305.0 **Note:** This issue is also corrected in the 5.1 RU3 TC5.

Fixed in 800xA 5.1 Revision D

Table 64, Table 65, Table 66 and lists the Administration, Configuration, and Operational issues that have been corrected in AC 800M in this release.

Table 64. Administration Issues

Issue	Correction or Fix
High Integrity	
Controller crashed when CI860 was hot removed When a hot-remove of CI860 was performed second time, in a rare case resulted in a controller crash. 800xACON-AD-5020-032	This problem has been corrected in Controller Firmware in BasicHWLib in AC 800M Connect.
PM891 could not access SD card of specification 2 or 3. PM891 only supports SD card of type 1, so spec 2 and 3 SD-cards showed error during start up and was not possible to use. 800xACON-AD-5100-035	This problem has been corrected in Controller Firmware in BasicHWLib in AC 800M Connect.
CI873 IO connection error for all four LDs during Automatic Cable Break for one LD. Ethernet cable removal for one of the LD 800DN's could lead to "IO Connection" shown for the other LD 800DN's on the network. 800xACON-AD-5102-002	This problem has been corrected in CI873EthernetIPHWLib in AC 800M Connect.

Table 64. Administration Issues (Continued)

Issue	Correction or Fix
CI873 module may reset while doing some re-configuration for DeviceNet devices. On re-configuration of DeviceNet modular devices, for example, adding new IO modules to the DeviceNet adaptor followed by download, may lead to CI873 reset. 800xACON-AD-5100-036	This problem has been corrected in CI873EthernetIPHwLib in AC800MConnect.
Error occurred during download after creating hardware types using Device Import Wizard for some EDS files. On inserting hardware types for device net devices in hardware tree, after importing from EDS files which had parameters of data type apart from real with scaling values, an error was displayed as follows on download to controller. "Unable to get parameter no=xx". 800xACON-AD-5100-037	This problem has been corrected in Device Import Wizard/Control Builder.
Controller crashed during power fail restart when tool routing was used in CI854 PROFIBUS. Controller crashed after a power reset, if the tool routing is configured for PROFIBUS devices through CI854. 800xACON-AD-5100-038	This problem has been corrected in CI854ProfibusHwLib in AC800MConnect.

Table 65. Configuration Issues

Issue	Correction or Fix
Device Import Wizard: Data type 'Float32+Status8' not implemented When a gsdml with Float32+Status8 is imported, there is an error message for each channel which uses this type. Error message: "Data type [Float32+Status8] not implemented. No channels are created for it!" 800xACON-CN-5100-063	This problem has been corrected in Device Import Wizard / Control Builder.
Re-configuration related to IP address in CI873 will lead to restart of CI873 module Re-configuration related to IP address in CI873 led to restart of CI873 module. 800xACON-CN-5101-013	This problem has been corrected in CI83HWLib in AC 800M Connect.
Controller	
MODBUS RTU	
Controller crash when removing Modbus RTU from hardware configuration Controller crash occurred when performing re-configuration download to remove Modbus RTU from hardware configuration, if the function block was still active and communicating in the application. 800xACON-CN-5100-050	This problem has been corrected.

Table 65. Configuration Issues (Continued)

Issue	Correction or Fix
DeviceNet	
In EtherNet/IP Device Import Wizard, the T2O size was not shown properly after re-import and replace. In some cases, some of the configuration done during the re-import of EDS files was not seen for the instance of the hardware type when it was replaced in the hardware tree after the re-import. Re-configuration related to IP address in CI873 led to restart of CI873 module. 800xACON-CN-5110-012	This problem has been corrected in Control Builder Device Import Wizard.
INSUM communication block could stop with error code -19 after warm re-configuration. The problem has been corrected in the INSUM Receive function block. 800xACON-CN-5020-078	This problem has been corrected in INSUMCommLib in AC 800M Connect.
PROFINET Device Import Wizard reported error due to CIGIO buffers. When importing a gsd file for a device having many parameters on module/submodule level, the number exceeded the supported limits and the import failed. Errors were listed in the conversion results (final page of DIW) and session log of Control Builder. As a result, hardware units could not be inserted into the hardware library. 800xACON-CN-5100-055	This problem has been corrected in Control Builder Device Import Wizard

Table 65. Configuration Issues (Continued)

Issue	Correction or Fix
Controller Crash when Function Diagram resulted in an Internal Compiler Error. When Diagrams gave an Internal Compiler error in Control Builder, it lead to Control Builder crash, an interrupted download or in some case a controller crash. Product Bulletin 3BSE047421D0134 800xACON-CN-5100-057	This problem has been corrected in Control Builder Device Import Wizard
Controller Builder Crash compiling project with constants connected to by_ref parameters. If structures and function block containing parameter with attribute by_ref, connected to constants were used, this could lead to a Control Builder crash. 800xACON-CN-5020-077	This problem has been corrected in Control Builder
Warning on inserting HWD files for PROFIBUS devices in hardware library in Control Builder. When inserting HWD files created from GSD files for some Profibus devices that had both "Moduloffset" and "Max_Module" keywords using Device Import wizard, a warning was shown in Control builder. "Warning in input file at line xx:SubUnits, LogicalNumbers and DiscreteNumbers are mutually exclusive." This warning however has no functionality restriction. 800xACON-CN-5100-059	This problem has been corrected in Device Import Wizard / Control Builder. This warning will no longer be displayed.

Table 65. Configuration Issues (Continued)

Issue	Correction or Fix
Connection down for Profibus slaves not updated based on re-configured watchdog time. In case the watchdog time was changed as part of a re-configuration, the connection down for slaves was still reported based on watchdog time configured earlier. 800xACON-CN-5100-060	This problem has been corrected in CI854ProfibusHwLib in AC800MConnect
Warning in Control builder on import of some EDS files. When importing EDS files having configuration parameters with Min, Max and default values associated with Enum parameters, an warning was displayed as shown below: "Warning: Parameter using ParValIndex xx has illegal value". 800xACON-CN-5100-061	This problem has been corrected in Device Import Wizard / Control Builder. This warning will no longer be displayed.
Channels for DeviceNet devices did not work properly if not all channels were configured while importing EDS file. If the EDS file was imported for the device using partial IO mapping with non-allocated bytes in between, the channels created for the hardware type did not work properly. 800xACON-CN-5100-062	This problem has been corrected in Device Import Wizard / Control Builder.

Table 66. Operational Issues

Issue	Correction or Fix
AND, OR and XOR Functions Miscalculated when parameter is Implicit Casted The functions AND, OR and XOR did to give an erroneous result if the expression was of Boolean type (bool) and the last right hand operator was of integer type (int, dint or uint) causing an implicit cast. Product Alert 3BSE047421D0142 800xACON-OL-5100-100	This problem has been corrected in Control Builder.
Min, Max and Mux could give wrong result in PM891. It was possible to get the wrong result from the Min, Max, and Mux functions in a PM891 in some rare cases. A problem similar to issue 800xACON-OL-5100-070 could occur if the third or later parameter to the functions were not variables but real value return values from other functions of function blocks. 800xACON-OL-5100-098	This problem has been corrected in Control Builder

Table 66. Operational Issues (Continued)

Issue	Correction or Fix
PROFINET IO	
Data inconsistency with PROFINET The I/O access between IEC 61131-3 application and the PROFINET communication is not operated in a synchronized way. Therefore it might happen that changed output data is split into several PROFINET cycles or changed input data belong to more than only one PROFINET cycle. Since the split can take place at all byte positions within the PROFINET frame, data inconsistency might be related to several channels of the same device or even to the specific bytes of an individual channel. For example, in latter case, the first 2 bytes of a 4 bytes DINT channel might be of new updated information and belong to the latest PROFINET cycle, but the last 2 bytes might be of old information and belong to the previous cycle. 800xACON-OL-5100-091, 800xACON-OL-5100-092, 800xACON-OL-5100-095	The problem has been corrected in Control Builder, the AC 800M Firmware and the Hardware Libraries for MNS iS, RETA-02 and FENA-11. To get the inconsistency issue solved for a third party device, a new import or re-import of the gsd-file with a succeeding download must be done. Note: When having the synchronization active in the controller, the CPU load of the PM8xx processor module and the CI871 might increase in the range of 1-3%.
PROFIBUS I/O freezed after PM891 switchover In rare case PROFIBUS I/O on CI854 could freeze when a CPU switch over occurred. This problem could only occur for redundant PM891 controllers. Product Alert 3BSE047421D0136. 800xACON-OL-5100-097	This problem has been corrected in PM891 firmware in BasicHWLib in AC 800M Connect.

Table 66. Operational Issues (Continued)

Issue	Correction or Fix
CI868/IEC 61850 module Error when exposed to unwanted Broadcast When CI868 communicating over GOOSE was exposed to a Ethernet broadcast storm of above 10,000 packets per second, CI866 stopped communicating and did not respond any further. 800xACON-OL-5101-022	This problem have been corrected in CI868IEC61850HwLib in AC 800M Connect.
Lost RNRP message When exposed to Ethernet communication that need to be filtered away example, broadcast messages, also some RNRP messages was erroneous removed. This could read to network switch over in a redundant network and prolonged communication time in some cases. 800xACON-OL-5020-059	This problem has been corrected in Controller Firmware in BasicHWLib in AC 800M Connect
PM891 Controller Crash when Using Modbus TCP (CI867) to Write Real Values A problem was found with handling of real (float) values in PM891. When acting as Modbus TCP master and attempting to write one or more real values this was resulting in a controller crash. Product Bulletin 3BSE047421D0127. 800xACON-OL-5100-094	This problem has been corrected in Controller Firmware in BasicHWLib in AC 800M Connect.

Table 66. Operational Issues (Continued)

Issue	Correction or Fix
CI867 crash when acting as slave to 3rd party Modbus TCP master/Modbus RTU master In rare cases, CI867 crash could occur when acting as slave to 3rd party Modbus TCP master or Modbus RTU master (for example, Allen Bradley PLC). 800xACON-OL-5025-001	This problem has been corrected in CI867ModBusTcpHwLib in AC 800M Connect.
MBException function block (Function code 7) was not working for CI853 as Modbus Master. When CI853 was configured as Modbus RTU master, the Modbus exception function code 7 using the MBException function block showed error -6903. 800xACON-OL-5100-099	This problem has been corrected in ModbusHwLib in AC800MConnect.
Underflow and Overflow was not shown for analog channels for DeviceNet devices. The hardware files for DeviceNet devices created by device import wizard did not have support for underflow and overflow indication for analog channels. 800xACON-OL-5100-069	This problem has been corrected in Device Import Wizard / Control Builder.

Table 66. Operational Issues (Continued)

Issue	Correction or Fix
Issues with Search & Navigation. When using Search and Navigation online it was not possible to navigate from a reference in the reference pane to its target and if using Search and Navigation in offline mode, the references did not show up in the reference pane. Product Bulletin 3BSE047421D0131 800xACON-MS-5102-001	This problem has been corrected in Control Builder.
Online search of variables connected to system in_out parameters was not found. When using Search and Navigation online it was not possible to find all variables connected to system function parameters of type in_out. 800xACON-CN-5100-056	This problem has been corrected in Control Builder.

Fixed in 800xA 5.1 Revision C

Table 67 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in AC 800M for 800xA 5.1 Revision C.

Table 67. Installation Issues

Issue	Correction or Fix
OPC Setup Wizard could not be started The OPC Setup Wizard could not be started if the OPC Server was running in an environment with available RAM more than 32GB (virtual). 800xACON-IN-5101-003	This problem has been corrected in AC 800M OPC Server.

Table 68. Administration Issues

Issue	Correction or Fix
Controller crashed when a configured Serial Protocol was removed A controller crash occurred in rare cases when a configured Serial Protocol was removed from the controller configuration and a subsequent download of the new configuration was performed. 800xACON-AD-5024-001	This problem has been corrected in AC 800M Controller Firmware.
Controller crashed during power-fail recovery when using serial communication protocols with modem. In rare cases, a controller crash occurred during the power-fail restart of the controller if it used the serial communication protocols like COMLI and MODBUS RTU with the modem attached. 800xACON-AD-5000-033	This problem has been corrected in AC 800M Controller Firmware.
Controller crashed when performing manual CPU switchover. In very rare occasions, a CPU failover (switching the primary and backup controller) initiated from Control Builder failed and caused the controller to crash. 800xACON-AD-4100-007 Product bulletin: 3BSE047421D0104	This problem has been corrected in AC 800M Controller Firmware.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
Controller shut down at removal of RCU link. When the RCU link cable was removed from the primary PM8xx, the controller could shut down. 800xACON-AD-5020-022	This problem has been corrected in AC 800M firmware.
"Unexpected number of files in FSD" reported by Consistency checker. When developing Hardware Libraries and using more than one environment, e.g. both Production environment and Engineering environment, the Consistency Checker could erroneously report "Unexpected number of files in FSD" for the Hardware Library. 800xACON-AD-5100-020	This problem has been corrected in AC 800M Connect.
Control Builder shut down when opening a project. Projects containing diagrams with constant variables of the type's date_and_time and string could make the Control Builder shut down when the project was opened. This happened if there were several constants that had the same value, but different casing of the letters, e.g. '3S' and '3s'. 800xACON-AD-5100-022	This problem has been corrected in Control Builder.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
No switchover to redundant network when storm filter activated. If a networks loop was created on a 100MBit network, the PM891 did not switchover to use the redundant network. 800xACON-AD-5101-012	This problem has been corrected in AC 800M firmware.
Memory leak if primary and secondary Ethernet ports was connected to the same physical network. If both Ethernet ports (CN1 and CN2) on the controller were connected to the same physical network e.g. the same switch, this could cause a memory leak in the controller and a possible controller shutdown. 800xACON-AD-5100-023 Product Bulletin: 3BSE047421D0110	This problem has been corrected in AC 800M firmware.
Control Network could disappear. It was possible to drag and drop the Control Network object in Plant Explorer to the OPC Servers object. If a project was opened in Control Builder after this, the Control Network object disappeared and an error was reported in Control Builder saying that the project could not be found. 800xACON-AD-5100-026	This problem has been corrected in AC 800M Connect.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
Stopped Applog Service resulted in long activation time for faceplates. If 800xA Core Applog Service was stopped, the activation time for faceplates was long. 800xACON-AD-5100-027	This problem has been corrected in AC 800M Connect.
Controller crash occurred during online upgrade if alarm object was not executed. If an alarm object was conditionally executed and parameter changes were carried out when it was not executing, then in rare cases, during online upgrade, a controller crash occurred. 800xACON-AD-5100-025 Product bulletin 3BSE047421D0124	This problem has been corrected in Controller Firmware for non-HI controllers.
Online Upgrade stopped at Step 5 on download of application to backup controller. If the Online Upgrade was started with configured Primary CI854, and not the active Primary, the Online Upgrade process was aborted at Step 5 during download of application to backup controller. 800xACON-AD-5025-001 Product bulletin 3BSE047421D0120	This problem has been corrected in CI854ProfibusHwlib in AC 800M Connect.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
Online Upgrade caused CI854 I/O's to fail. During step 7 of Online Upgrade, when switchover of CI854 occurred, the Profibus modules went to the configured ISP/OSP during the first scan after CI854 switchover, and then resumed with the actual value from the second scan. 800xACON-AD-5020-031 Product bulletin 3BSE047421D0121	This problem has been corrected in CI854ProfibusHwlib in AC 800M Connect Product Bulletin 3BSE047421D0121
Controller crashed a while after power restored from power failure. Controller crashed a while after power was restored from power failure. Repeated power reset to the controller with CI858 connected led to controller crash. 800xACON-AD-5020-028	This problem has been corrected in CI858DrivebusHwlib in AC 800M Connect
CI873 re-booted when DeviceNet configuration size exceeded 130560 bytes. CI873 re-booted when DeviceNet configuration size exceeded 130560 bytes. When the DeviceNet configuration connected under LD 800DN in Control builder exceeding 130560 bytes was downloaded to controller, the CI873 module re-booted. 800xACON-AD-5101-014	This problem has been corrected in CI873EthernetIPHwlib in AC 800M Connect.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
Re-configuration related to addition/deletions of DeviceNet devices led to CI873 reset Re-configuration related to addition/deletions of DeviceNet devices led to CI873 reset. When the DeviceNet devices including modular IO modules under LD 800DN were added or deleted during re-configuration, the CI873 module got reset during download from Control Builder. 800xACON-AD-5101-015	This problem has been corrected in CI873EthernetIPHwlib in AC 800M Connect.
ADR (Address Data Recovery) error set for DeviceNet IO physically not present ADR (Address Data Recovery) error was set for DeviceNet, when IO was physically not present. ADR error was set on DeviceNet adaptor for modular IO modules during re-configuration, when IO module was added under the adaptor from Control builder which was physically not available. 800xACON-AD-5101-016	This problem has been corrected in CI873EthernetIPHwlib in AC 800M Connect.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
ADR (Address Data Recovery) error for DeviceNet devices having parameters of uint data type in the device EDS file ADR (Address data recovery) error for DeviceNet devices having parameters of uint data type in the device EDS file. There were problems in the hwd file created after importing the DeviceNet EDS files that had parameters of uint data type. When such a DeviceNet device instance was added under LD 800DN and downloaded to the controller, it showed an ADR error and hence communication with the device failed. 800xACON-AD-5101-017	This problem has been corrected in DeviceNet import wizard in Control builder.
DeviceNet with EDS files having parameters of data type word and dword were not imported correctly DeviceNet with EDS files having parameters of data type word and dword were not imported correctly. Due to this, the user was unable to set values for these parameters correctly from Control builder. 800xACON-AD-5101-018	This problem has been corrected in DeviceNet import wizard in Control builder.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
OSP values was not set for DeviceNet outputs from Controller on hot removal of CI873 module OSP values was not set for DeviceNet outputs from Controller on hot removal of CI873 module. On hot removal of the CI873 module, the controller did not write OSP value for DeviceNet output channels configured under that CI873. This is due to wrongly importing the EDS file for the device by the device import wizard. 800xACON-AD-5101-019	This problem has been corrected in DeviceNet import wizard in Control builder.
During import/ re-import of some EDS files, the Control builder crashed During import/ re-import of some EDS files, the Control builder crashed. 800xACON-AD-5101-020	This problem has been corrected in DeviceNet import wizard in Control builder.
MB 300 communication stopped even after re-connecting both MB300 cables which were removed from the CI855 MB 300 communication stopped even after re-connecting both MB300 cables which were removed from the CI855. 800xACON-AD-5020-027	This problem has been corrected in CI855MB300Hwlib in Control builder.

Table 68. Administration Issues (Continued)

Issue	Correction or Fix
Logover "reverts" automatically during download The logover user in Control Builder sometimes "revert back" to the interactive user when downloading to the controller. 800xACON-AD-5100-030	This problem has been corrected in AC 800M Connect.
DriveBus	
DriveBus CEX module CI858 goes into fault mode if co-existence download is done The first time a co-existence download is done from Control Builder version 5.1.0/1 to AC 800M Controller of version 5.1.0/0 the DriveBus CEX module, CI858 goes into fault mode. The following re-configuration downloads the DriveBus communication will not be affected. Important 800xACON-AD-5101-007	This problem has been corrected in AC 800M Control Builder.

Table 69. Operational Issues

Issue	Correction or Fix
Channel status missing for PROFIBUS (CI854) when slave failed. In some cases, the status indication for PROFIBUS (CI854) in Control Builder and the Channel status could be missing when a PROFIBUS slave failed. 800xACON-OL-5023-017 Product bulletin 3BSE047421D0103	This problem has been corrected in CI854PROFIBUSHwLib in AC 800M Connect.
Input buffers of MODBUS RTU were not emptied automatically at new connection. The input buffers for MODBUS RTU were not emptied when a new connection was made. This caused the buffer overflow characters to disturb the communication when the new connection is activated. 800xACON-OL-5020-039	This problem has been corrected in ModBusHwLib in AC 800M Connect.
CI867, acting as master, reset on network disturbance of slave. CI867 acting as master might reset if disturbances like removal of slaves or removal of network cable were introduced in the network. 800xACON-OL-5020-044	This problem has been corrected in CI867ModbusTCPHWLib in AC 800M Connect.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
CI867, used as slave, reset if a disturbance was performed. If a CI867 was used as slave and connected to other Modbus masters, any disturbances like network cable failure or network component failure might lead to reset of the slave CI867. 800xACON-OL-5020-043	This problem has been corrected in CI867ModbusTCPHWLib in AC 800M Connect.
Controller crashed when MODBUS TCP (CI867) was overloaded. If MODBUS TCP Read and Write blocks were enabled for many slaves, and disturbance was introduced by frequent connection/ disconnection of the slaves, a controller crash occurred. 800xACON-OL-5020-047	This problem has been corrected in CI867ModbusTCPHWLib in AC 800M Connect.
Controller crashed when MODBUS TCP configuration with 24 ports (master and slave) was used. If a full MODBUS TCP configuration – with 12 CI867 modules, each using both the Ethernet ports – was used, the controller might crash. 800xACON-OL-5101-005	This problem has been corrected in ModbusTCPHWLib in AC 800M Connect.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
MODBUS TCP FC20 and FC21 were not working for REF device. The function codes - FC20 and FC21 - for MODBUS TCP used for REF devices did not work properly. 800xACON-OL-5020-046	This problem has been corrected in CI867ModbusTCPHWLib in AC 800M Connect.
Controller shutdown occurred with a Foreign TCP Reset (RST). An abrupt foreign TCP Reset (RST), when all of the received messages were not handled in the controller, lead to a controller shutdown.This error occurred when devices on the network sent TCP Reset (RST) before all of the received messages were processed, for example, because of erroneous configured firewalls and switches. Product Alert 3BSE047421D0101 800xACON-OL-5000-087	This problem has been corrected in AC 800M Controller Firmware.
OPC Alarm & Event subscriptions might not work if the number of network areas was more than four. If the number of networks areas seen by one controller was more than four, the Alarm & Event subscription from OPC server might fail. 800xACON-OL-5023-016 Product bulletin: 3BSE047421D0102	This problem has been corrected in AC 800M Controller Firmware.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Frequent removal and addition of OPC Item may return up to 3.5 minutes old data. Removing an OPC item and adding the same OPC item back again as active within 3.5 minutes, could in rare cases, cause the old data to be accepted as good. The data read can be up to 3.5 minutes old, only data not older than the OPC update rate would normally be accepted as good. 800xACON-OL-5101-013 Product bulletin 3BSE047421D0107	If the data requirement is sensitive so as to avoid receiving older data, avoid removing OPC items and adding them again within 3.5 minutes. Alternatively, items can be added as not active and then be activated.
PidCascadeLoop function block windup. A controller windup occurred if the signal connected as PV (Process Value) to the slave controller, through PidCascadeLoop, was outside the range of 0 - 100 %. 800xACON-OL-5000-086	This problem has been corrected in ControlBasicLib in AC 800M Connect.
Indications in Sequence2Dheader. For a sequence in its end position, the arrow in the PG2 faceplate was still active. 800xACON-OL-5020-049	This problem has been corrected in SeqStartLib in AC 800M Connect.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Min, Max and Mux could give wrong result in PM891. It was possible to get the wrong result from the Min, Max and Mux functions in a PM891 in some cases. This could happen if more than two inputs were used, the parameters were of type real and the input data to the functions was a result of another function or function block (i.e. not directly connected to a variable). 800xACON-OL-5100-070 Product Alert: 3BSE047421D0097	This problem has been corrected in Control Builder.
System functions, SUB, GT, GE, LT and LE could give wrong results when used in a Function Diagram. This problem could only occur if the application code was created using Function Designer, available in Engineering Studio, and used directly in a Function Diagram. Calls to the same functions inside Programs, Function Blocks and Control Modules were not affected. 800xACON-OL-5100-071 Product Alert: 3BSE047421D0098	This problem has been corrected in Control Builder.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Inter Application Communication timeout fixed to 500 ms. In case Inter Application Communication was configured with a timeout of less than 500 ms a loss of one single packet would cause an immediate communication timeout. 800xACON-OL-5100-077	This problem has been corrected in AC 800M firmware.
Display element error indication in ManualAutoCC. The display element of the ManualAutoCC object in ControlStandardLib showed an error indication if the input cc was left unconnected. 800xACON-OL-5100-081	This problem has been corrected in ControlStandardLib in AC 800M Connect.
OPC Server reported Good quality for invalid data. The OPC server could deliver the value 0 with quality Good for a short while during download with warm restart to the controller. This could happen if data for an OPC client was updated before data from the newly downloaded application had arrived in the OPC server, but after the OPC server had learned that a new application version exists in the controller. 800xACON-OL-5024-003 Product bulletin 3BSE047421D0107	This problem has been corrected in OPC Server for AC 800M.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Communication variables allowed, but not working, in a Time Critical task. It was erroneously possible to declare and download Communication Variables in an application connected to a task running as Time Critical. The communication with the Communication Variables in the Time Critical task was not working. It shall not be allowed to download Communication Variables to a Time Critical task. 800xACON-OL-5100-079	This problem has been corrected in Control Builder. A compiler check prohibits download of applications connected to a Time Critical task if the application contains Communication Variables.
Standard library signal objects did not indicate underflow and overflow. Underflow and overflow indication in standard signal libraries did not generate any Event or set the Warning output in version 5.1.0-1. The Error output was neither influenced by underflow or overflow if the parameter ErrorAtWarn was set to true. Affected objects: SignalInReal, SignalInRealM, SignalSimpleInReal and SignalSimpleInRealM, SignalBasicInReal and SDInReal. 800xACON-OL-5101-014 Product Alert: 3BSE047421D0114	This problem has been corrected in SignalLib and SignalSupportLib in AC 800M Connect.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Control Builder shut down or error when opening Control Module online editor from Plant Explorer. The Control Builder could shut down or report an error when trying to open a Control Module online editor from Plant Explorer. This happened if the Control Module was located inside another Control Module. 800xACON-OL-5000-089	This problem has been corrected in Control Builder.
Insufficient time accuracy in PM891. The PM891 had an error making the calendar time in the controller gain by approximately 320 ppm. 800xACON-OL-5100-073	This problem has been corrected in AC 800M firmware.
Timeout on Modbus TCP. The function blocks MBTCPRead and MBTCPWrite did not take number of re-send into account when calculating transaction timeout and as a consequence the timeout time was too short. 800xACON-OL-5020-052	This problem has been corrected in CI867ModbusTcpHwLib, part of AC 800M Connect.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
MMS communication mismatch with SattLine controller. If an AC 800M controller communicated with a SattLine controller and the response from the SattLine controller contained a bigger variable then the AC 800M requested, the AC 800M controller shut down. 800xACON-OL-5000-088	This problem has been corrected in CI867ModbusTcpHwLib in AC 800M Connect.
Oscillations in control logic. Control logic that used MinCC and MaxCC control modules, might, in rare cases, end up oscillating when internal set point backtracking was used. 800xACON-OL-5020-051	This problem has been corrected in ControlAdvancedLib in AC 800M Connect.
Change of manual value in ManualAutoCC. In ManualAutoCC, it was not possible to change the manual value in Faceplate or Extended Faceplate. It only worked in the Reduced Faceplate. 800xACON-OL-5100-075	This problem has been corrected in ControlStandardLib in AC 800M Connect.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Change of sign in control error resulted in unwanted behavior in PID controller. A change of sign in the control error resulted in a bump and also made the output to stick to the output limit. This problem affected the library objects PidCC, PidAdvancedCC, PidLoop, PidLoop3P, PidCascadeLoop and PidCascadeLoop3P. 800xACON-OL-5101-015 Product Bulletin: 3BSE047421D0118	This problem has been corrected in ControlSupportLib, part of AC 800M Connect.
Permanent HW warning when type error for Communication Variables. If a type error is configured for an Inter Application Communication between two applications in the same controller a warning will be shown on the IAC_MMS object in the HW-tree (HW status). This warning will be permanent even if the type error is corrected. 800xACON-OL-5100-082	No workaround exists for this issue. A reset of the controller is needed to clear the indication.
Clock Synch Status did not work with IPSec enabled. The function Clock Synch Status in the Control Builder did not work if the IPSec function was enabled. 800xACON-OL-5101-017	This problem has been corrected in Control Builder.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Graphic Display looks different on one screen compared to the other 3 displays When the extended workplace was started up with several windows showing the same display, some of the windows did not show correct data. 800xACON-OL-5010-041	This problem has been corrected in AC 800M Connect.
Logging real data with function block DataToSimpleEvent limited to 6 positions When logging real data with function block DataToSimpleEvent the value was limited to 6 positions, that is, the highest value became 999.9. 800xACON-OL-5100-072	This problem has been corrected in AC 800M OPC Server
PM891 Limited number of MMS Connections For PM891 the number of MMS connections was limited to about 30. When this limit reached, the PM891 was not able to create new MMS connections. 800xACON-OL-5100-076 Product bulletin 3BSE047421D0116	This problem has been corrected in Controller Firmware.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Controller crash occurred with Modbus RTU when several connect blocks shared ID parameter A controller crash occurred while using Modbus RTU, and toggled connect, when several connect blocks shared the same ID parameter. 800xACON-OL-3100-004	This problem has been corrected in Controller Firmware for non-HI controllers

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
IEC61850 Wizard does not support DO types containing CMV data types IEC61850 wizard throws error while importing scd file containing DO types such as WYE and DEL that contain CMV data types. For example, In a project, it was not possible to send following phase currents of CMV type from the IED to the AC800M over GOOSE communication. For Example A.phsA MmuPriMMXU1/A.phsA (WYE) A.phsB MmuPriMMXU1/A.phsB (WYE) A.phsC MmuPriMMXU1/A.phsC (WYE) A.neut MmuPriMMXU1/A.neut (WYE) IEC61850 Wizard does not support all DO Names under currently supported DO Types. CI868 Import Wizard throws error while importing scd file containing certain DO names under currently supported DO types. For Example, In a project, it was not possible to import DO names EnaOpn, EnaCls, Loc that were of the supported DO type SPS. 800xACON-OL-5020-055	This feature has been implemented in IEC61850 Wizard Module. This version supports importing DO types WYE and DEL that contain the phase currents within CMV data types. On import, the magnitude of phase currents from IED (phsA, PhsB, phsC, neut, net, res) shall be mapped to channels of MVGroup object in CBM hardware tree. Phase current angle from IED (if any) is not supported and shall be ignored while importing. This version supports all DO names under currently supported DO types as per IEC 61850 Ed1 specification. Currently supported DO types are SPS, ACD, ACT, DPS, MV and INS.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Error set on DeviceNet device is not reset after error is cleared When cable to a DeviceNet device is removed, error was set for the device in Control builder. When the cable is connected back, communication resumed with the device, but the error was not cleared for the device in Control builder. 800xACON-OL-5102-001	This problem has been corrected in CI873EthernetIPHwlib in AC 800M Connect
Re-Configuration of modular DeviceNet IO modules failed Re-configuration done for DeviceNet device parameters were not successfully updated for the device. 800xACON-OL-5101-021	This problem has been corrected in CI873EthernetIPHwlib in AC 800M Connect.
Outputs resumed old application value when the lost connection to DeviceNet device is restored When the LD 800DN lost connection to DeviceNet device, user is unable to write safe value for the output channel from control builder. 800xACON-OL-5101-019 Product Alert 3BSE047421D0122	This problem has been corrected in CI873EthernetIPHwlib in AC 800M Connect. With this fix, user can write a safe value for the output channel of the device from Control Builder when the connection to the device goes down.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
CI867 as slave restarted if more than maximum 8 external masters were connected The CI867 configured as slave can have maximum 8 masters connected to it. If more than 8 external masters connected to a single CI867 slave, then the CI867 restarted. 800xACON-OL-5000-091	This problem has been corrected in CI867ModbusTCPHwlib in Control builder.
CI867 as slave restarted if external master(s) connected to it lost connection frequently CI867 as slave restarted if external master(s) connected to it lost connection frequently. This is observed in CI867 configured as slave and single or multiple external masters (maximum 8 masters) were connected to it. When the connection of the external masters to the CI867 lost frequently, the CI867 got reset after some time. 800xACON-OL-5020-050	This problem has been corrected in CI867ModbusTCPHwlib in Control builder.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Backup SM81x halted due to Modulebus scan sequence. The backup SM81x could detect an incomplete scan sequence when evaluating a missed trigger signal due to incomplete handling of scan list. This could halt the backup SM, even though the primary SM was not affected. 800xACON-OL-5020-042 Product bulletin 3BSE047421D0123	This problem has been corrected in AC 800M SM81x Firmware.
Interval time unstable for communication variables When many communication variables was subscribed at same time interval, some variables got unstable interval times, especially for shorter time intervals 800xACON-OL-5100-083	This problem has been corrected in Controller Firmware for non-HI controllers

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
ProcessObjects based on BiCore did not go to Manual mode after power fail restart ProcessObjects based on BiCore from ProcessObjBasicLib did not go to Manual mode after power fail restart of the controller, but remained in the state as before power fail. This was affecting the following ABB standard object: ProcessObjBasicLib (BiCore, BiSimple(M), ProcessObjExtLib (Bi(M), MotorBi(M), MotorValve(M)) and ProcessObInsumLib (MCUBasic(M), MCUExtended(M)) 800xACON-OL-5000-090 Product bulletin 3BSE047421D0119	This problem has been corrected in AC 800M Connect.
Rollback of changes to status handling for "uncertain" in Control Connection Functionality changed as a result of implementation of diverse sub status for signal objects that has been restored as in releases prior to 5.1 RU1. This means that an Uncertain status would be given if real signal had under or over flow. This affected objects from SignalLib (SignalInRealM andSignalSimpleInRealM) and from ControlStandardLib (AnalogInCC) 800xACON-OL-5100-084 Product Bulletin 3BSE047421D0114	This problem has been corrected in AC 800M Connect.

Table 69. Operational Issues (Continued)

Issue	Correction or Fix
Wrong value backward from VelocityLimiter when limited backward Backward.MaxReached and Backward.MinReached were not sent backward in ControlConnection from VelocityLimiterCC. 800xACON-OL-4100-053	This problem has been corrected in ControlStandardLib, part of AC 800M Connect.

Table 70. Configuration Issues

Issue	Correction or Fix
OPC Alarm & Event subscription might fail if subnet mask 255.255.255.0 is used with RNRP. An OPC Alarm & Event subscription done during restart of a controller will fail if explicit RNRP configuration with subnet mask 255.255.255.0 is used. A new subscription done after the controller has been restarted, however, will work. 800xACON-CN-5023-010 Product Bulletin: 3BSE047421D0105	Workaround: To avoid the problem make sure that the Networks HostID are separated with more than 500. A temporary workaround is to enable the Network area local parameter. Then the Client/Server Network address is not visible for the controller. IP forwarding will be blocked and the Controller will only be reachable from the Control Network if Network area local is enabled.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Data mix-up could occur in Access variable editor. If more than one Access variable editor was opened at the same time, the changes made to the content in the editors could get mixed up. This led to compile errors while downloading the changes or in loss of data. 800xACON-CN-5100-032	This problem has been corrected in Control Builder.
SIL Access Levels were reset when a new library was created. If a new version of a library was created, the POU types that contained Control Modules or Single Control Modules as child elements were reset to the default SIL Access Level, Read-only. This error affected the access from faceplates. A workaround was to set the SIL Access Level manually after creating a new library version. 800xACON-CN-5020-059	This problem has been corrected in Control Builder.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Control Alarm Event aspects outside library. If a new major version of a library was created, the Control Alarm Event aspect was copied to the new library version, but in some cases, it was not included as expected. This error occurred for Control Module types that contained Single Control Modules in the new library version. This did not affect downloading of the program, but the import/export was affected. If a new major version was created from this erroneous library, errors were created in the new library version. The aspects needed to be checked after creating a new major library version. If these aspects were not correct, then the aspects had to be added manually. 800xACON-CN-5020-060	This problem has been corrected in Control Builder.
Aspect Related Properties may change when Sort functionality is used. If the editor functionality "Sort A to Z" or "Sort Z to A" is used, and the sorted items get a different order after the sorting, the properties visible in PPA (e.g. ReadPermission, WritePermission, AccessLevel and AspectObject), may not be correct for the sorted items anymore. 800xACON-CN-5020-062 Product bulletin 3BSE047421D0106	After sorting the variables or function blocks within the POU using the Sort function in the editor, verify them for the correct aspect related properties.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Changes were not imported with Import wizard. In the 5.0 System Versions, this problem was found in 5.0 SP2 RU4 (5.0 SP2 Rev D). The changes made in the libraries or individual entities were not imported to Aspect server through the Import wizard, if the library was used in an open Control Builder project. In this case, the Differences feature in the Import wizard also did not show the changes for the imported file. The workaround was to close the project containing the imported library or close the Control Builder completely. 800xACON-CN-5024-003 Product Alert 3BSE047421D0108	This problem has been corrected in AC 800M Connect.
IEC61850 Import Wizard, CI868 does not receive data configured from other IED. IEC61850 Wizard did not update protocol information for IO channels when two or more signals were configured within same dataset from LNs under different LDs of same IED. For example: CVMMXU1.TotW.mag is configured from LD1 and LD2 of same IED. 800xACON-CN-5100-025	Problem has been fixed in this release.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Control Builder shut down during download. An application using the return value from a function as an input to a parameter declared as by_ref could make the Control Builder shut down during download. 800xACON-CN-5100-031	This problem has been corrected in Control Builder.
PROFIBUS Log message - Frame too short. At re-configuration of S800 connected via CI854 a message "Bitmap - frame too short" was seen in the controller log file. 800xACON-CN-5020-064	This problem has been corrected in AC 800M firmware.
Too many variables connected to I/O. There is a limit on the number of 1131 variables that can be connected to I/O. For a HI controller the compilation check in Control Builder did not work, which could result in an out-of-memory situation in the controller. 800xACON-CN-5020-057	This problem has been corrected in Control Builder.
Opening Control Builder Project Explorer from Plant Explorer could report an error. When using the menu entry Project Explorer in Plant Explorer to navigate to Control Builder, an error was reported if the name of the object was 32 characters long. 800xACON-CN-5020-056	This problem has been corrected in Control Builder.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Wrong logged data in SignalRealCalcInM. In the object SignalRealCalcInM in SignalLib, the log configuration logged data for Out.Forward.Value even if the trend was configured to show OutForward.Value. 800xACON-CN-5000-100	This problem has been corrected in SignalLib in AC 800M Connect.
Control Builder shut down in Online mode when using CBOpenIF. The Control Builder could shut down if the method GetProjectTree in the Control Builder COM interface CBOpenIF was called when the Control Builder was in Online mode. 800xACON-CN-5100-029	This problem has been corrected in Control Builder.
Inconsistencies between Control Builder and Plant Explorer. It was possible to get inconsistencies between Control Builder and Plant Explorer in some cases. It was erroneously possible to run the override command from the aspect menu on some Control Module and Function Block instances. If this was done, it could lead to inconsistencies, e.g. extra objects in Control Builder compared to Plant Explorer. 800xACON-CN-5020-070	This problem has been corrected in AC 800M Connect.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Problems with renaming of Application. After renaming an IEC 61131 application in the Control Builder, the Control Builder could shut down when reopening the project. 800xACON-CN-5020-065	This problem has been corrected in Control Builder.
Graphical error in Task Analysis Tool. In detailed view of the Task Analysis Tool, there was a graphical error when a task was delayed and interrupted. 800xACON-CN-5100-038	This problem has been corrected in Control Builder.
Missing icons in Difference Report and Source Code Reports. The icons in the report tree view showing states SIL2, SIL3, Error, or Protected was sometimes black or red/green. No icon was shown for these items. The corresponding information can be found in the source code in the report text panes. 800xACON-CN-5021-001 Product bulletin 3BSE047421D0112	This problem has been corrected in Control Builder.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Edit Permission lost on Communication Variables. When setting Edit Permission on Communication Variables in Plant Explorer, the setting was cleared (deleted) when the Apply button was pressed. For Diagrams it was not possible to set Property permissions at all since the Property Permission tab was disabled. 800xACON-CN-5100-036	This problem has been corrected in AC 800M Connect.
Control Builder shut down when declaring Communication Variable. Context menu for the compilation error 1032 "Variable not declared…" contains a command Declare/Communication Variable. Control Builder will shut down if this command is used for other POUs than Programs, Diagrams, or top level Single Control Modules. 800xACON-CN-5100-033	Workaround: Only use the command Declare/Communication Variable when editing Programs, Diagrams, or top level Single Control Modules.
Communication Variables problem with Non-English letters. If the name of a Communication Variable contained a capital Non-English letter, there was a possibility that the communication didn't work. 800xACON-CN-5101-017	This problem has been corrected in Control Builder.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Applications not downloaded for Communication Variables with empty string as ISP value. Applications with a Communication Variable declared as string with empty string as ISP value was not possible to download. 800xACON-CN-5100-035	This problem has been corrected in AC 800M firmware.
Changes not saved when correcting errors with instance specific initial values. When errors for instance specific initial values had been corrected, the corrections would work for that Control Builder session. However, the errors could come back when the Control Builder was restarted or if the project was reopened. 800xACON-CN-5100-037	This problem has been corrected in Control Builder.
A Controller could shut down when changing faulty RNRP settings. A Controller shut down (single or dual) could occur when performing warm re-configuration of RNRP settings when the controller was in a mis-configured state. 800xACON-CN-5020-068 Product Bulletin: 3BSE047421D0115	This problem has been corrected in Controller Firmware for non-HI controllers.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Name aspect not updated when renaming from Control Builder. In some cases, the Name Aspect of an object in Plant Explorer was not updated when renaming an instance from Control Builder. Only the Control Builder Name aspect was updated. 800xACON-CN-5020-069	This problem has been corrected in AC 800M Connect.
Control Builder hanging during download. When downloading a large project there was a possibility that the Control Builder could hang, if a window was moved or resized during the download. 800xACON-CN-5101-019	This problem has been corrected in Control Builder.
Controller shut down during download. The controller may shut down during download when trying to use a function (e.g. concat) in an interaction attribute of a graphical object. 800xACON-CN-5100-039	This problem has been corrected in Control Builder.
Protection override of protected libraries disappears In some situations, the protection override of a password protected library might disappear and the library are "locked" again. 800xACON-CN-5101-016	This problem has been corrected in Control Builder

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Webserver does not respond anymore after many homepage accesses If there are many homepage accesses (regardless whether some parallel or serial accesses) the webserver does not respond anymore to following requests after a while (after about 70 requests). This happens regardless whether PROFIBUS or PROFINET CI interfaces are configured and downloaded. 800xACON-AD-5101-013 Product bulletin 3BSE047421D0111	This problem has been corrected in AC 800M Firmware
Double clicking on compilation error opened the wrong editor When a non-existing variable is connected to a parameter, clicking the error message opened the wrong editor. 800xACON-CN-5100-027	This problem has been corrected in Control Builder
No cursor appeared in the editor of function block and control module The connection editor did not show a cursor on first line in grid. It was possible to enter Parameter first time, second time F2 could be used to select the cell. 800xACON-CN-5022-007	This problem has been corrected in Control Builder

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
MotorValve(M) continued to pulse output until timeout reached If pulse mode was used for objects MotorValve or MotorValveM, the output continued to pulse even if end position was reached, until the timeout was reached. 800xACON-CN-5101-018	This problem has been corrected in ProcessObjExtLib in AC 800M Connect
Search failed when a dot (.) is used in names of HW units If a dot (.) was used in the names of hardware units then it was not possible to find the name. 800xACON-CN-5100-024	This problem has been corrected in Control Builder
Online search failed when selecting "search for all" while searching IO address When doing an online search for an IO address or a global variable and selecting "search for all" the variable was not returned. Normally the default selection to search within the application is used and then the search worked correctly. 800xACON-CN-5100-028	This problem has been corrected in Control Builder

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Control builder shutdown due to different result in the double compilation When the editor was saved and closed without modification, during application compilation the control builder stopped responding. 800xACON-CN-5000-102	This problem has been corrected in Control Builder
Control Builder crashed when compiling "faulty" duration values If a literal was connected to a parameter of duration type and there was a need for converting the initial value, this resulted the Control Builder to crash during compilation. This occurred in some special cases, for example, when conversion was done for "0m60s". If the initial value was "1m" or "60s", no problem occurred. 800xACON-CN-5000-099	This problem has been corrected in Control Builder
Variables tab show Function block types in FBD editor after sorting After sorting of the program, if the FBD/LD editor was closed and then opened, the function block names were displayed in the Variables tab of the editor. 800xACON-CN-5100-044	This problem has been corrected in Control Builder

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Not possible to set property permission for diagram variables An error appeared when attempting to set property permissions for variables in Diagram types 800xACON-CN-5100-034	This problem has been corrected in AC 800M Connect
Soft controller crashed when IAC variables with maximum length were used The soft controller crashed when IAC variables with maximum length (32 char) were used for communication. 800xACON-CN-5100-043	This problem has been corrected in Controller Firmware
IEC 61850 Importing scd-file containing datasets with Multiple, Optional or Unsupported data attributes of same Data Object leads to Stack error Importing scd-file containing GOOSE datasets with Multiple, Optional or Unsupported data attributes of same Data Object leads to Stack error. For example: Following Data Attributes included in GOOSE dataset. CSWI.Pos.stSeld PDIF.Str.dirGeneral PDIF.Str.phsA PDIF.Str.phsB PDIF.Str.phsC MMXU.TotW.instMag.f 800xACON-CN-5100-047	Problem has been fixed in this release. Scd-file containing datasets with Multiple, Optional or Unsupported data attributes of same Data Object are imported without any error but not assigned to any IO channel and hence are not supported for GOOSE communication.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
IEC61850 Wizard showed error while importing scd-file containing LNs for GOOSE IEC61850 Wizard throws error while importing scd-file containing LNs for GOOSE communication assigned under PTR object in the Substation section of the SCD file. 800xACON-CN-5100-048	Problem has been fixed in this version.
IEC61850 Wizard did not abort scd-import, if IED Name was different between CBM-Hw tree and scd-file. This led to CI868 module error after download IEC61850 Wizard does not abort scd-import if IED Name is different between CBM-Hw tree and scd-file. This leads to CI868 module error after download. 800xACON-CN-5100-049	Problem has been fixed in this version. On subsequent import, IEC61850 wizard shall detect difference in IED name and update IED name from scd-file into CBM-Hw tree object name.
Disconnection status for IEDs was not updated in Control Builder. Hardware status of IEDs disconnected must be in error state Disconnection status for IEDs not updating in Control Builder. Hardware status of IEDs disconnected must be in error state. 800xACON-CN-5020-071	Problem has been fixed in this release. Pop-up message about missing Quality attribute is provided with option to proceed or cancel import. Proceed with option YES: Import allowed with Warning generated in IEC61850 log. Press option NO: Import Cancelled.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Re-configuration of S100 IO parameters led to controller crash Re-configuration of S100 IO parameters led to controller crash. When re-configurations was made in S100 IO modules like enable/disable active connections, moving channel configurations, there was controller crash during download from Control builder. 800xACON-CN-5000-103	This problem has been corrected in CI856S100HWLib in AC 800M Connect.
No tool tip for parameters text in FBD editor Tooltip texts while positioning over a variable or parameter was not visible in Control Builder FBD editor. 800xACON-CN-5100-045	This problem has been corrected in AC 800M Control Builder.
Channel error during hot-insert of CEX interfaces During hot-insert of single CI868 (IEC 61850), CI871 (PROFINET) or CI873 (Device NET) units, the UnitStatus indicated both "Channel error" and "Waiting for hardware initialization" during the hot-insert phase. 800xACON-CN-5100-051	This problem has been corrected in Controller Firmware for non-HI controllers. The "Channel error" indication has now been removed during hot-insert. But, with PROFINET, "Channel error" is indicated till the PNIO device has provided the updated valid data after hot-insert.

Table 70. Configuration Issues (Continued)

Issue	Correction or Fix
Compiler check not showing unconnected FB ref AnyType parameter (in or out) It was possible to download function blocks with unconnected parameters with attribute by_ref and type Any Type. This led to a controller crash. A compiler check was then added to generate a compilation error for this construction. 800xACON-CN-5100-046	This problem has been corrected in AC 800M Control builder.

Fixed in 800xA 5.1 Revision A

Table 71, Table 72, Table 73, and Table 74 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in AC 800M for 800xA 5.1 Revision A.

Table 71. Installation Issues

Issue	Correction or Fix
Missing libraries are not detected by a consistency check. When running a consistency check on a project, the check did not detect if the project was referring to a library that did not exist in the system. Important 800xACON-IN-5101-001	This problem has been corrected in AC 800M Connect. There is no automatic fix if missing libraries are detected by the consistency check.
Systems without any Visual Basic based graphics still need the AC 800M Connect VB Graphics Extension when upgrading Upgrading a system that used only Process Graphics 2 (which did not use any Visual Basic based graphics), required the AC 800M Connect VB Graphics Extension during backup/restore. This error appeared in the form of warnings about missing Active X components, in the log. Important 800xACON-IN-5101-002	This problem has been corrected in AC 800M Connect.

Table 72. Administration Issues

Issue	Correction or Fix
Online Upgrade of Controller: Communication using SerialCommLib hung in Step 7/9 Sometimes serial communication using the SerialCommLib could get hung after an Online Upgrade. This required disabling and re-enabling a serial channel on the connect block to restart communication. Important 800xACON-AD-5020-011	This problem has been corrected in SerialHWLib 2.0-6 and SerialCommLib 2.1-3.
PROFIBUS I/O on Single CI854 could briefly go to zero during Online Upgrade or Hot-insert of CI When performing Online Upgrade on a system with Single PROFIBUS CI854 or when doing Hot-insert on a Single configured PROFIBUS CI854, the I/O in rare cases briefly went to zero/de-energize, independent of the OSP Settings. Important 800xACON-AD-5023-007	This problem has been corrected in the AC 800M firmware.

Table 72. Administration Issues (Continued)

Issue	Correction or Fix
Application download sometimes forced even if no change was made. After downloading a modification from one engineering station and then making a cold download from another engineering station, the next online/download wanted to force a download of the application, even if it was not changed. It was not possible to un-select the application for download. Instead an error message was displayed saying that necessary files (rrs and/or cdo) files are missing. This problem also manifested as a not properly working OPC server. This error did not affect the controller execution. An already running OPC server was not being affected. <div align=right>Important 800xACON-AD-5023-008 Product bulletin: 3BSE047421D0084</div>	This problem has been corrected in the Control Builder.

Table 72. Administration Issues (Continued)

Issue	Correction or Fix
Function Blocks with by_ref parameters sometimes prevented download The following configuration prevented a download without printing any error message: 1. Declare a data type in Library1. 2. Declare a function block type in Library2 and add parameters using the data type from Library1. 3. Set the attribute "by_ref" on the parameters 4. Create a function block in an application using the function block type from Library2, but only connect Library2, and not Library 1, to the application. 5. Don't connect any of the parameters of the function block. Important 800xACON-CN-5000-098	This problem has been corrected in the Control Builder.
Online changes sometimes not logged in Audit trail When applications were located in an application folder, changes done online were not logged in the Audit trail. Important 800xACON-AD-5101-002	This problem has been corrected in the Control Builder.

Table 72. Administration Issues (Continued)

Issue	Correction or Fix
Control Builder crash during download after using Compiler statistics and rename The Control Builder could crash during download if you opened the Compiler Statistics Tool and then renamed, for example, a Control Module instance. Important 800xACON-AD-5101-003	This problem has been corrected in the Control Builder.
OPC Server showed bad data during download to controllers During warm download of several controllers, the OPC server showed bad data for a period of time. The OPC server recovered automatically after the download to all controllers selected for download was completed. Important 800xACON-AD-5101-004	This problem has been corrected in the Control Builder.
Name Aspect not updated during import The Name Uploader did not update the timestamp when only the Description property was changed. This lead to problems when using the Import/Export Tool. As the tool uses the timestamp to determine if it should import an aspect, sometimes a changed Name aspect would not be imported. 800xACON-AD-5101-005	This problem has been corrected in AC 800M Connect.

Table 72. Administration Issues (Continued)

Issue	Correction or Fix
PM891 could not start application from SD Card When starting a PM891 from an application stored on an SD (Secure Digital) card, the controller could crash during startup procedure if the application contained floating point arithmetic. Important 800xACON-AD-5101-006	This problem has been corrected in the Control Builder.
CI860 did not support Online Upgrade in 800xA 5.1 An online upgrade of controllers with CI860 modules from version 5.0 to 5.1 was not possible because configuration changes were detected. Occasionally the related controller may stop working. Important 800xACON-IN-5100-003	This problem has been corrected in CI860FFHSEHwLib 2.0-23.

Table 73. Configuration Issues

Issue	Correction or Fix
Difference Report hung during download When using instance specific initial values for "date_and_time" or "time" variables that were not cold retain marked, the difference report could in some cases get hung. Important 800xACON-CN-5024-001	This problem has been corrected in Control Builder.
Problem with EDS import There is no support available for special characters in EDS file that are imported. The user should take care to manually remove special characters before the start of import. 800xACON-CN-5100-015	A warning will now be issued to inform the user. This problem has been corrected in Control Builder.
Control Builder editor filter icon appeared in the header without the filter being applied The filter icon was shown in Control Builder editor when reopened but the filter was not applied. 800xACON-CN-5101-001	Filter will now be saved and reapplied when an editor reopens. This problem has been corrected in Control Builder.

Table 73. Configuration Issues (Continued)

Issue	Correction or Fix
Controller crashed during download when reconfiguring diagnostics for PROFIBUS (CI854) In rare cases the Controller could crash when reconfiguring diagnostics data for PROFIBUS (CI854). Important 800xACON-CN-5023-008	This problem has been corrected in CI854PROFIBUSHwLib 2.0-13. This problem has not been corrected in the AC 800M High Integrity firmware.
OPC DA connection to Controller was lost during reconfiguration after downloading several large applications When several large applications were downloaded to the Controller, the OPC server could lose OPC DA connection to the controller. After the reconfiguration was finished the connection was established. Important 800xACON-CN-5101-002	This problem has been corrected in Control Builder.
Controllers went missing in OPC Panel after restart/reload of OPC configuration When loading a configuration file in an OPC server that already had controllers connected, sometimes some controllers from the new configuration were missing. This problem was more frequent if the OPC Server was having problems communicating with the controllers from the original configuration. Important 800xACON-CN-5023-006	This problem has been corrected in OPC Server for AC 800M.

Table 73. Configuration Issues (Continued)

Issue	Correction or Fix
Aspects missing in Control Connection Dependencies Some aspects (like the Control Builder Name aspect) were sometimes not included in the control connection dependency list. This omission prevented Process Graphics from detecting relevant configuration changes to aspects and objects, resulting in problems with getting live data in faceplates and process displays. Important 800xACON-CN-5101-003	This problem has been corrected in AC 800M Connect.
Files for OPC-server stored on Backup Media got corrupted The files needed by the OPC-server were stored as backup on Backup Media when creating the application on Backup Media. These files were truncated to 10kB, and were found to be corrupted when copied to the OPC server. Important 800xACON-CN-5101-004	This problem has been corrected in Control Builder.
Reset button missing in main Faceplate The reset button was missing in the MainFaceplate of the following types in the library ProcessObjDriveLib: ACStdDrive, ACStdDriveM, DCStdDrive, DCStdDriveM, EngDrive and EngDriveM. Important 800xACON-CN-5101-005	This problem has been corrected in AC 800M Connect.

Table 73. Configuration Issues (Continued)

Issue	Correction or Fix
Could not download project to Compact Flash for PM851 in 5.1 It was not possible to download to Backup Media for hardware module PM851. Important 800xACON-CN-5100-023	This problem has been corrected in the Control Builder.
Extensible parameters were not printed correctly in Project Documentation When running Project Documentation for a Function Block Type that has extensible parameters, the layout of the extensible parameters were not correct. 800xACON-CN-5101-006	This problem has been corrected in Control Builder.
PROFINET IO communication with Siemens S7-300 did not work When using the integrated iDevice functionality of the Siemens S7-300 PLC the CI871 did not setup the cyclic communication. Important 800xACON-CN-5101-007	This problem has been corrected in Control Builder and CI871PROFINETHwLib 1.2-28. To get the communication running a new import or re-import of the gsd-file and a consecutive download has to be done.

Table 73. Configuration Issues (Continued)

Issue	Correction or Fix
Engineering studio crashed when trying to update control properties Engineering studio crashed in some situations where it tried to update control properties in Control builder. Important 800xACON-CN-5020-055	This problem has been corrected in AC 800M Connect.

Table 74. Operational Issues

Issue	Correction or Fix
Frozen CI854 PROFIBUS I/O when using Time Critical Task A CI854 PROFIBUS I/O could get frozen for several seconds when a Normal task and a Time Critical task shared the same CI854. This means that both tasks had I/O variables connected to I/O below the same CI854. This problem could not occur in a High Integrity Controller, as it has no time critical task. Important 800xACON-OL-5023-011 Product Alert: 3BSE047421D0077	This problem has been corrected in the AC 800M firmware.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
Characters lost when input buffer was overfilled using SerialCommLib If the input receive buffer of 512 bytes in SerialHWLib was overfilled when using SerialCommLib, the data in the buffer was lost. Important 800xACON-OL-5022-006	This problem has been corrected in AC 800M Connect.
Controller Shutdown due to Inconsistent Alarm Object when using Load Evaluate Go A controller shutdown could occur when LEG (Load Evaluate Go) method of downloading is used combined with "normal" warm re-configuration download i.e. re-configuration download without using LEG. Important 800xACON-OL-5023-013 Product bulletin 3BSE047421D0087	This problem has been corrected in the AC 800M firmware.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
Controller Crash when Serial Communication Timeout while Receiving Data An AC 800M controller might shut down when using serial communication protocols, MODBUS RTU, COMLI Master or Siemens 3964R. User-defined serial communication (SerialCommLib) and COMLI Slave were not affected. The problem could occur on all types of serial channel ports. Important 800xACON-OL-5023-014 Product bulletin 3BSE047421D0091	This problem has been corrected in the AC 800M firmware. Not corrected in the AC 800M High Integrity firmware.
Controller crash in serial communication when using CI853 Serial communication with CI853 could in very rare cases lead to a controller crash. This was primarily observed when both channels on CI853 were used at a high message frequency. Important 800xACON-OL-5020-038	This problem has been corrected in the AC 800M firmware. Not corrected in the AC 800M High Integrity firmware.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
OPC Client's writing of 'out of range' values handled incorrectly in AC800M OPC Server If an OPC Client writes 'out of range' values through async write, then a no error callback is made from the OPC Server to the client. Important 800xACON-OL-5100-065	This problem has been corrected in the OPC Server for AC 800M.
IEC 61850 Problem while Configuring Communication to REL 670 IED The System implementation did not support CDC type CMVs (Complex Measured Variables) like WYE, DEL. Only MV (Simple Measured Variables) CDC like TotW, TotVAr, TotPF, Hz, AnIn and so on. Important 800xACON-OL-5020-025	This problem has been corrected in the Control Builder IEC61850 Import Wizard and CI868 protocol handler.
Control Builder Hangs on Function Designer Code Generation During Online Mode Problem occurs when doing code generation in Function Designer when Control Builder is in online mode and system variable SaveColdRetainOnOfflineTransfer is true. Important 800xACON-OL-5100-064	This problem has been corrected in the Control Builder.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
Error in SerialLibrary when setting number of characters to 1 When reading characters by using SerialLibrary (e.g. SerialWriteWait) and changing the number of characters to 1, it did not work to set it back to the original value. The function block continued to read only 1 character. Important 800xACON-OL-5101-002	This problem has been corrected in SerialHwLib 2.0-6 and SerialComLib 2.1-3.
Control Builder M crashed when going online after controller loaded from Backup Media A Control Builder M crash occurred when trying to go online to a controller that was loaded from backup media /Compact Flash. Important 800xACON-OL-5101-003	This problem has been corrected in Control Builder.
Receiving one Coil with MODBUS TCP Slave (FC5) causes application error When writing from any Modbus TCP master to Boolean access variable in the CI867 slave using function code 5, the interpretation of the value of the Boolean variable on the slave was not correctly represented and the 1131 application code could have malfunctioned. Important 800xACON-OL-5023-015 Product bulletin: 3BSE047421D0092	This problem has been corrected in ModbusTCPHWLib.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
Controller crashed when exposed to burst of Hardware status changes from several CEX interfaces A Controller could in rare cases crash when exposed to a burst of Hardware status changes from several CEX interfaces, for example CI854. Important 800xACON-OL-4107-001	This problem has been corrected in the AC 800M firmware. Not corrected in the AC 800M High Integrity controller.
Alarm detection in ProcessObjectAE was delayed by one scan Alarm detection in AlarmEventLib function block ProcessObjectAE was delayed by one scan before alarm generation. This means that alarm generation happened after a one scan delay. Important 800xACON-OL-5100-068	This problem has been corrected in AlarmEventLib in AC 800M Connect. Not corrected in the AC 800M High Integrity firmware.
Cold Retain marked variables sometimes went missing in Project Documentation online When running Project Documentation online, variables of structured data types with subcomponents that are cold retain marked were omitted if the main component was not cold retain marked. Important 800xACON-OL-5022-005	This problem has been corrected in Control Builder.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
OPC Server could stop communicating with controller If a third party OPC Data Access Client, connected to the AC800M OPC Server, was using both normal subscription and synchronous operations like Read and Refresh to get data from a specific controller, there was a risk that the update from the OPC Server stopped for this controller. Important 800xACON-OL-5101-004	This problem has been corrected in OPC Server for AC 800M.
Controller time zone information when starting from Backup Media The time zone information was not part of the configuration saved on Backup Media. The time zone in the controller was only set when downloading from Control Builder over Ethernet. A firmware upgrade or power fail without battery erased the information. This could give problems when using Comli type J-time synch messages. Important 800xACON-OL-5101-001	This problem has been corrected in the Control Builder and AC 800M firmware.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
Controller crash for MODBUS TCP with 24 ports master and slave configuration Using a full MODBUS TCP configuration of 12 CI867 modules, where both Ethernet ports are used, could cause the controller to crash. Important 800xACON-OL-5101-005	This problem has been corrected in ModbusTCPHWLib in AC 800M Connect.
Frozen CI871 PROFINET I/O when using Time Critical Task CI871 PROFINET I/O could get frozen for several seconds when a Normal task and the Time Critical Task shared the same CI871. Here, both tasks had I/O variables connected to I/O below the same CI871. This problem did not occur in a High Integrity Controller, as it has no Time Critical Task. Important 800xACON-OL-5101-007	This problem has been corrected in the AC 800M firmware.
PROFIBUS redundancy with 3rd party slave did not work For some PROFIBUS devices, like the ET200M with IM153-2 from Siemens, the redundancy is not working. The device can be configured as redundant in the hardware tree of Control Builder but the redundancy is not working at the device level. Important 800xACON-OL-5101-008	This problem has been corrected in Control Builder and CI854PROFIBUSHwLib 2.0-13. To get the redundancy working a new import or re-import of the god-file and a consecutive download has to be done.

Table 74. Operational Issues (Continued)

Issue	Correction or Fix
Controller crash when rapidly switching between serial read and write When using serial communication based on SerialCommLib, rapidly switching between read and write while receiving data could cause a controller crash. Important 800xACON-OL-5020-040	This problem has been corrected in AC 800M Connect Serial HWLib.

Fixed in 800xA 5.1

Table 75, Table 76, Table 77, and Table 78 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in AC 800M for 800xA 5.1.

Table 75. Installation Issues

Issue	Correction or Fix
PM851, PM856 & PM860 Controllers Hang after a Controller reset (Long Reset) In very rare cases, a PM851, PM856 and PM860 would not startup after a Controller reset by a long press on the init button. 800xACON-IN-5020-003	This problem has been corrected in the AC 800M firmware.

Table 75. Installation Issues (Continued)

Issue	Correction or Fix
IEC61850 Connect Uploader failed after uninstallation of Control Builder In a system which had combined aspect and connectivity server in one machine, the Uploader was unable to upload after uninstallation of IEC 61850 Import/Export Wizard. Important 800xACON-IN-5100-002	This problem has been corrected in Control Builder.

Table 76. Administration Issues

Issue	Correction or Fix
Converting to Single Control Module fails When converting a control module instance to a single control module, it appeared successful. When the project was reopened, the control module instance was found still linked to its original type. If the original type was removed after the operation, an error occurred. Important 800xACON-AD-5100-002	This problem has been corrected in Control Builder.

Table 76. Administration Issues (Continued)

Issue	Correction or Fix
Control Builder documentation does not include all Control Module Instances A type that contains both function blocks and control module instances was difficult to document. Some control module instances were not documented. 800xACON-CN-5022-003	This problem has been corrected in Control Builder.
CI865SattIOHwLib had wrong NLS setting The language setting of CI865SattIOHwLib was set to Swedish. 800xACON-AD-5100-015	This problem has been corrected in CI865SattIOHwLib 1.0-18 and CI865SattIOHwLib 2.0-3.
Controller crash at hot remove of redundant CI854 If both CI854 units in a redundant pair were hot removed at the same time the controller in rare cases could crash. 800xACON-AD-5100-008	This problem has been corrected in the AC 800M firmware This problem has not been corrected in the AC 800M High Integrity firmware.
Controller crash after change of Serial protocol A change in hardware configuration leading to a download of a Serial protocol, sometimes lead to a controller crash. 800xACON-AD-5020-020	This problem has been corrected in SerialHwLib 1.1-0 and SerialHwLib 2.0-5.

Table 76. Administration Issues (Continued)

Issue	Correction or Fix
Controller and Control Builder Problems after Decimal Symbol Changed From "Period" to "Comma" If the Windows setting for the decimal symbol (under Regional and Language Options) was changed, it caused inconsistencies in existing AC 800M applications. This could lead to Controller or Control Builder shutdowns immediately after the change. Important 800xACON-AD-5010-008	This problem has been corrected in Control Builder.
Re-Import of PROFIBUS Devices will Fail if GSD File Name is Changed Import of an already existing GSD file to the Control Builder failed if the name of the updated GSD file was different compared with the original file. 800xACON-AD-5020-002	This problem has been corrected in Device Import Wizard / Control Builder.

Table 76. Administration Issues (Continued)

Issue	Correction or Fix
Formatted Compact Flash Card Is Not Empty According to Controller If a Compact Flash card had been used to upgrade firmware in the Controller, there would still be some information left on the Compact Flash card after it was reformatted. This could cause problems if the same Compact Flash card was later used to load a Controller Application. When the Controller started up, it would try to load firmware (and fail), instead of loading the Controller Application from the Compact Flash card. 800xACON-AD-5020-003	This problem does not exist when the Compact Flash card is formatted by Windows 7.
Control Builder Uninstallation Cleanup Problems Microsoft DLLs and the .NET framework could cause problems when uninstalling Control Builder or other Control products. Important 800xACON-AD-5020-018	This problem has been corrected in Control Builder.
Cable removal from E1 of CI867 in single mode caused reset of CI867 Running CI867 as single and removing the Ethernet cable from port 1, could cause a reset of the CI867. Important 800xACON-AD-5023-004 Product bulletin: 3BSE047421D0072	This problem has been corrected in CI867ModbusTcpHwLib 1.1-61 and CI867ModbusTcpHwLib 2.0-18.

Table 76. Administration Issues (Continued)

Issue	Correction or Fix
Modulebus status could show timeout after and OLU In some cases it could happen that Modulebus status showed Timeout after an Online Upgrade had been performed. 800xACON-AD-5020-013	This problem has been corrected in the AC 800M firmware.
Online upgrade with single CEX module and no BC810 did not work An online upgrade with no BC810 and only one non-redundant CI module did not work if the Lower CPU acted as primary at the start of the online upgrade. Important 800xACON-AD-5100-013	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 77. Configuration Issues

Issue	Correction or Fix
SoftController shutdown when hardware type is simulated or changed. The Control Builder was not able to prevent a download to a SoftController following a change of controller hardware type when Hardware Simulation was enabled. Important 800xACON-CN-5020-023	This problem has been corrected in the Base Software for SoftControl.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
Modulebus scan time =0 in the project template The default Modulebus Scan Cycle Time was 0ms instead of the correct value 100ms for controllers created when a new project was created. When adding a new controller the correct value of 100ms is used. 800xACON-CN-5020-043	This problem has been corrected in Control Builder.
Function block instance disappeared if connecting a erroneous value Function block instance could disappear when connecting a erroneous value to a real-parameter, for example entering a 1 without the trailing decimal. 800xACON-CN-5100-004	This problem has been corrected in Control Builder.
Signal list from wrong application when connecting variables When two applications with global variables of structured-type, and the editors for both applications were open, it was possible that, when connecting variables in FDB-editor, the wrong list of signals would be displayed in input helplist. 800xACON-CN-5100-005	This problem has been corrected in Control Builder.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
Problem Encountered while Creating CCF File for REF Series IED There was a problem in the SCL component whenever the REF series of IEDs were used for configuring the SCD File. The REF54x (x=1,3,5) inherently does not have an IEC 61850 interface and hence must use the SPAZC-40x SPA/IEC61850 adapter to attain IEC 61850 connectivity. Hence LD0 and LD1 were designated for SPAZC-40x and REF54x devices respectively. Important 800xACON-CN-5020-013	This problem has been corrected in Device Import Wizard / Control Builder.
Tracing the IEC 61850 Partner from Control Builder It may have been difficult to trace the IEC 61850 partner from Control Builder since the partner IP address was not shown. Important 800xACON-CN-5020-003	This problem has been corrected in Device Import Wizard / Control Builder.
Problem with IEC 61850 Import using Import Wizard if Import is Aborted If an import of IEC 61850 SCD data to the Control Builder and Aspect Directory was cancelled or interrupted in an uncontrolled way, it could have left an inconsistent hardware tree for the concerned AC 800M Controller. The hardware tree was to be then deleted and recreated. 800xACON-CN-5020-011	This problem has been corrected in Device Import Wizard / Control Builder.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
Slow Performance of IEC 61850 Import Wizard It could take a long time (several minutes) to do an import and create the hardware structure in the Control Builder for large SCD configurations. Important 800xACON-CN-5020-002	This problem has been corrected in Device Import Wizard / Control Builder.
Data types in SignalLib missing User Permission configuration The components in some InteractionPar data types had empty permission fields giving the possibility of being changed by everyone. The following data types in SignalLib were missing User Permission configuration: • SignalInRealMPar • SignalOutRealMPar • SignalSimpleInRealMPar • SignalSimpleOutRealMPar 800xACON-CN-5020-050	This problem has been corrected in SignalLib 1.6-7.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
Problems when SIL3 Applications downloaded to SoftController using Hardware Simulation Several problems concerning Hardware Simulation of SIL3 Applications had been found, leading to Control Builder shutdown at download after engineering changes had been made. The shutdowns are especially frequent if there are changes to the SIL3 applications, but not to any Controller Configuration settings, or vice versa. Important 800xACON-CN-5020-022	This problem has been corrected in Control Builder.
Error Message When Aborting Print to File in Difference Report If the menu option File -> Print in the Difference Report was selected and then "Print to file" checkbox was ticked and then if "Cancel" was selected in the "Print to File" dialog, you got an error message. 800xACON-CN-5010-001	This problem has been corrected in Control Builder.
Import Wizard Progress Bar Showing Wrong Information While importing SCD files using the IEC 61850 Import Wizard, the progress bar was not synchronized with the actual work progress and indicated work completed while the import was still underway. 800xACON-CN-5020-001	This problem has been corrected in the IEC61850 Import Wizard.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
IEC61850 Import Wizard does not create short address when timestamp attribute is present in datasets subscribed by CI868 When CI868 subscribes goose data from IED which has time attribute included in the dataset then Wizard fails to generate short address for the same. 800xACON-CN-5023-001	This problem has been corrected in Control Builder / Device Import Wizard. Datasets subscribed by CI868 can contain time attributes in the SCD file.
Problem with a graphic element in one uploaded display in MI When running MI (Multisystem Integration) the Display Element Icons of ValveUniM and ValveUni looked corrupted when shown in a graphic display. Important 800xACON-CN-5000-097	The code for FrameWidth setting is now outside the mark for auto generated code. When MI now performs a graphic deploy, the FrameWidth code is left without changes and the look of the Display Element Icons is as expected. This change concerns only Visual Basic operator graphics.
Channel error on S900 IO during download When reconfiguring S900 I/O, the I/O could report Channel error during reconfiguration. Important 800xACON-CN-5020-051	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
Connection problems in FBD Editor When having a function block with an in_out parameter instantiated in another function block where the in_out parameter from the first function block was connected to an out parameter on the second function block, an error was raised. 800xACON-CN-5020-037	This problem has been corrected in Control Builder.
Problem with IEC 61850 Import using Import Wizard if Import is Aborted If an import of IEC 61850 SCD data to the Control Builder and Aspect Directory is cancelled or interrupted in an uncontrolled way, it may leave an inconsistent hardware tree for the concerned AC 800M Controller. The hardware tree must then be deleted and recreated. 800xACON-CN-5020-011	This problem has been corrected in the Control Builder, IEC61850 Import Wizard.
Not possible to download with CI868 in position 10, 11 or 12 When configuring CI868 in position 10, 11 or 12 and trying to download to controller, Control Builder raised a compilation error and the download was rejected. 800xACON-CN-5100-018	This problem has been corrected in Control Builder.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
IAL address not created in CCF file, when timestamp attribute is present in SCD When AC800M subscribed goose from IED which had time attribute included for the data object in the dataset, short address for the time attribute was generated but the IEC61850 Import Wizard failed to generate the same when time attribute was included. 800xACON-CN-5023-001	This problem has been corrected in the Control Builder, IEC61850 Import Wizard.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
Controller Shutdown due to Memory Corruption when Re-configuring PROFIBUS AC 800M controller memory corruption could occur when making re-configuration to CI854 PROFIBUS. The error was very rare but when it occurred it could cause different types of issues. It has mostly caused controller crashes at download, but could in the worst case lead to a corrupted variable in an application. The latter case could lead to the execution continuing with (for example) a variable containing corrupted data. The corruption could not occur undetected in a SIL application in an AC 800M High Integrity Controller and would in this case cause a shutdown. If a Non-SIL application was affected, this could cause availability issues and malfunction as described above. Important 800xACON-CN-3100-003 Product Alert 3BSE047421D0060	This problem has been corrected in CI854PROFIBUSHwLib 1.0-33 and CI854PROFIBUSHwLib 2.0-11.

Table 77. Configuration Issues (Continued)

Issue	Correction or Fix
CI868 Stack error due to excessive datasets CI868 gives stack error while downloading application to controller due to stack limitation in handling more than 150 datasets. Important 800xACON-CN-5020-046	This problem has been corrected in the CI868 firmware and delivered with CI868IEC61850HwLib1.1-14 and CI868IEC61850HwLib2.0-13. For stable performance it is recommended that the total subscribed datasets per CI868 does not exceed 150. The above criterion is also monitored by a new dataset limit checking functionality included in IEC61850ImportWizard Module.

Table 78. Operational Issues

Issue	Correction or Fix
Warning 1542 during initial save of FBD code When saving FBD code for the first time the message `Warning 1542 : Function blocks : The function ...is not called` was generated for function block instances. 800xACON-OL-5100-002	This problem has been corrected in Control Builder.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Crash in compilation of function call to DWORD_TO_DINT When compiling 1131-code containing call to dword conversion functions, where the in-parameter was missing, the Control Builder crashed. This was applicable to conversion functions between dword and integer types (UINT, INT, DINT). Important 800xACON-OL-5100-006	This problem has been corrected in Control Builder.
Type mismatch compilation error when using Out By_Ref When a Function Block type parameter with direction Out and attribute By_Ref was connected to an extensible parameter of another block, the Control Builder issued a type mismatch error. Important 800xACON-OL-5100-007	This problem has been corrected in Control Builder. An 'unsupported assignment' error is now issued.
Slow CPU switchover when primary and secondary networks are lost simultaneously In case both primary and backup networks are lost simultaneously, the CPU switchover could take up to 10 seconds. Important 800xACON-OL-5100-008	This problem has been corrected in the AC 800M firmware. The switchover time is now reduced to approximately 5 seconds.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
DI with pulse catch on DI840 not supported in Control Builder The Operation Mode parameter for DI840 has three settings: DI, DI with pulse catch, and DI+SOE. In the Control Builder, only DI and DI+SOE were available. Important 800xACON-OL-5100-009	This problem has been corrected in Control Builder.
MBTCPWrite hangs with status 0 after download Sometimes the MBTCPWrite block could hang with status 0 when downloading application changes with warmstart. Important 800xACON-OL-5100-011	This problem has been corrected in Control Builder.
SimpleEventDetector does not set Error if SignalID is empty Leaving the SignalID parameter empty and performing a download resulted in an error code -30, but the Error parameter was not set. 800xACON-OL-5100-016	This problem has been corrected in Control Builder.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Wrong variable name when using Declare from check tab When several variables in the ST code were undeclared and when the Declare option from the popup menu in the Message pane was used, all variables got the same name. 800xACON-OL-5100-020	This problem has been corrected in Control Builder.
Possible to make changes in Hardware editor in online mode using drag and drop It was possible to select and drag an entire column in the hardware editor and drop it on another column. This changed the content of the column even if it did not affect anything in the controller. Important 800xACON-OL-5100-024	This problem has been corrected in Control Builder. It is no longer possible to do such a drag and drop operation in online mode.
Cyclic load shows wrong value when a time critical task is used The calculated cyclic load could be higher than it really is when using time critical tasks. The reason was that when a time critical task was interrupted by another task, both tasks were calculated as executing. Important 800xACON-OL-5100-025	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Error in Search and Navigation tool when performing Iterative Search An error message was presented sometimes when right clicking a reference in the Search and Navigation tool and selecting Iterative Search. Important 800xACON-OL-5100-027	This problem has been corrected in Control Builder.
OPC server crash when disconnecting client When the system variable OPCAEEnableSaveSub was set to true, the AC800M OPC Server crashed when the OPC Alarm&Event client was disconnected from the server. Important 800xACON-OL-5100-028	This problem has been corrected in OPC Server.
Control Builder hangs and shut down during "warm download" Control Builder, in certain situations, got hung during the download sequence, when creating the OPC files. Important 800xACON-OL-5100-029	This problem has been corrected in Control Builder.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Unable to create instance after toggling the "hidden" attribute If the "Hidden" attribute (Protection and Scope settings) was toggled on a FB/CM type it might lead to failure in creating instances of that type. Important 800xACON-OL-5100-033	This problem has been corrected in Control Builder.
Frozen diagnostics after Power Down/Up with SIMOCODE pro V After power down/up of SIMOCODE pro V devices diagnostics such as Trip - External Fault 5 and Trip - External Fault 6 might still be indicated although they were no longer present. 800xACON-OL-4106-001	This problem has been corrected in the CI854/CI854A firmware Version 5.59 in CI854PROFIBUSHwLib 1.0-33 and CI854PROFIBUSHwLib 2.0-11. This problem has not been corrected in the AC 800M High Integrity firmware.
Long Time for MMSConnect to Become Valid When Restarting From Compact Flash If a power failure occurred and the controller was restarted and loaded the Application from the Compact Flash card, it took about 90 seconds before the MMSConnect was valid again. Important 800xACON-OL-4100-049	This problem has been corrected in the AC800M firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Controller crash at restart if one application is missing If a controller had several applications connected, and one application containing variable connections to I/O was not downloaded, then the controller crashed at startup after power fail or short reset. 800xACON-OL-5100-035	This problem has been corrected in the AC800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.
Hanging CEX-bus IRQ Several occurrences of hanging CEX-bus interrupts were reported, resulting in shut down of one CEX segment. 800xACON-OL-5020-037 Product Bulletin: 3BSE047421D0075	This problem has been corrected in the AC800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.
Controller crash in SerialCommLib thread When using serial protocol created with SerialCommLib, attempting full duplex communication, the controller could crash in runtime if an abort request was sent while a read response was being executed. 800xACON-OL-5020-030	This problem has been corrected in SerialHwLib 1.1-0 and SerialHwLib 2.0-5. This problem has not been corrected in the AC 800M High Integrity firmware.
Controller crash during cold download Download to an empty controller could fail and the controller crashed if there had previously been an interrupted download to the controller. 800xACON-OL-5100-038	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
CI865 restarted during warm CoExistance download The ControlNet communication was restarted if a warm download was done from a Control Builder System Version 5.0 SP2 to a controller that was previously loaded from a Control Builder System Version 5.0 (or System Version 5.0 SP1). 800xACON-OL-5100-039	This problem has been corrected in Control Builder.
Time synch and Controller Warm Restart If a controller was configured for time synch and a time synch message arrived during a short period during the restart, the restart may fail. 800xACON-OL-5020-029	This problem has been corrected in the AC800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Settings for RNRP and for PPP Lost in a Redundant CPU There was a possibility that settings for RNRP and for PPP could get lost after a power fail if the battery was removed or low during the power fail. In such a case the application was always lost, but additionally it might not have been possible to communicate with the Controller from the Control Builder. The problem happened if one CPU is primary when the configuration is downloaded and the other CPU is primary after the startup. This was a problem only in these cases: • If the Control Builder used PPP to communicate with the Controller • If explicit RNRP configuration was used and the Controller and the Control Builder were connected to different network areas. 800xACON-OL-4100-011	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Clock could lag by 15% during Power Fail The built-in real time clock was not handled correctly in PM851/856/860/861/864 at power fail. This could in rare occasions lead to clock lagging by 15% during power fail of the 24VDC. The problem did not affect PM861A/PM864A/PM865/PM866. Important 800xACON-OL-5100-001	This problem has been corrected in the AC 800M firmware.
High total system load using Backup Media When using Cold Retain variables stored on a Compact Flash card of low quality, the total system load could go up to 100% and stay there. The problem was when the Compact Flash card gave occasional read errors. Important 800xACON-OL-5100-041	This problem has been corrected in the AC800M firmware.
Communication problems for COMLI multidrop In a COMLI multidrop configuration, checksums of the value "02" sent to other slaves on the multidrop link right before a message is sent to an AC800M comli slave, caused the 800M to neglect the first request. Important 800xACON-OL-5011-003	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Handling of DLE command in Siemens 3964R protocol In the Siemens 3964R-protocol the DLE command (10H) must be duplicated if it appears in the data part of the message to separate it from the command character "end of message" (DLE, ETX). The AC800M did not always handle this duplicated DLE (10H) in the data part of the reply message. With the message length of 12 words AC800M could handle one duplicated 10H, but with more than one duplicated 10H, AC800M rejected the message with NAK (15H). Important 800xACON-OL-5000-084	This problem has been corrected in the AC 800M firmware.
Controller crash with custom made serial modbus redundancy When switching the line on a custom made modbus redundancy with two CI853 the backup CI853 this could led to a controller crash. Important 800xACON-OL-5100-034	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Setpoint limits not respect when internal SP backtracking active When entering internal setpoint values through the internal setpoint backtracking mechanism, the range of the process value was not checked and could be set out of this range. 800xACON-OL-5100-037	This problem has been corrected in ControlSupportLib 1.3-4.
Yellow triangle in display element when AEConfig =0 When using PidCC and the parameter AEConfig =0 (default value) > None (No alarm or event is configured), the Display Element Icon showed a yellow triangle = "AnyOverrideActive". 800xACON-OL-5100-040	This problem has been corrected in ControlAdvancedLibGraphExt 1.1-5, ControlFuzzyLibGraphExt 1.1-5, ControlObjectLibGraphExt 1.1-4, ControlStandardLibGraphExt 1.1-7, GroupStartLibGraphExt 1.1-6, ProcessObjDriveLibGraphExt 1.1-3, ProcessObjExtLibGraphExt 1.1-5, ProcessObjInsumLibGraphExt 1.1-3, SignalLibGraphExt 1.1-6, SupervisionBasicLibGraphExt 1.1-5 and SupervisionLibGraphExt 1.1-5.
Backtracking close to hysteresis The backtracking of the object close to the hysteresis could give wrong values and the result was the flickering of output signals. 800xACON-OL-5010-039	This problem has been corrected in ControlSupportLib 1.3-4.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
PM redundancy was unintentionally disabled Backup PM was in rare cases stopped due to an overflow in redundancy handling when hardware handshake was used for serial communication. Important 800xACON-OL-5100-042	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.
S800 I/O reset after power failure S800 I/O connected through Modulebus could indicate channel status good for a short time after a power fail restart, even though the channel value was not yet updated. This meant that the channel value was false/zero but channel status indication was good. This problem did not affect the S800 High Integrity I/O Units. Important 800xACON-OL-4100-051 Product alert: 3BSE047421D0067	This problem has been corrected in the AC 800M firmware.
CI867 reset at high load When the CI867 was loaded with large configuration, the CI could be reset. Important 800xACON-OL-5100-044 Product bulletin: 3BSE047421D0074	This problem has been corrected in CI867ModbusTcpHwLib 1.1-61 and CI867ModbusTcpHwLib 2.0-18.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Frozen values on DSDI110 when event driven When using many event driven DSDI110, one of them might stop updating its values without reporting an error. Important 800xACON-OL-5020-034	This problem has been corrected in CI856S100HwLib 1.2-0 and CI856S100HwLib 2.0-6.
CM/FB icon color difference in Plant Explorer when created manually and through Bulk Data Manager When creating Control Module or Function Block Types, they got different icon colors depending on whether they were created manually or using Bulk Data Manager. Important 800xACON-OL-5100-047	This problem has been corrected in Control Builder.
Interaction Windows Might Overlap Each Other Compared to Windows Classic Look Some interaction windows had a placement on screen in such a way that related windows would appear side-by-side. If this was done on a computer with Windows classic look, they would overlap each other for other Windows Themes. Important 800xACON-OL-5100-048	This problem has been corrected in Control Builder. The size of the windows is modified in order to adapt to the modified border size of the windows. The adaptation is not perfect, but is an improvement compared to the original behavior.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Interaction Windows Become too Large on Wide Screen Monitors The interaction window width was calculated with the screen width as base value. If the height of a window almost fit within a 4:3 monitor, the same window was too large to fit in a wide screen monitor. Important 800xACON-OL-5100-049	This problem has been corrected in Control Builder. The screen coordinate system is adjusted for wide screen monitors, keeping the same height of the Interaction Windows without changing any settings. Example: For a 1920x1200 monitor, the screen coordinate system would be 0.0 to 1.2 in the horizontal direction (8/5 * 3/4).
OPC Server hang when abruptly disconnecting client connected through DCOM If an OPC Client connected through DCOM was disconnected abruptly (network error, killing client, client not cleaning up at shutdown) it could cause the AC800M OPC Server to hang. Important 800xACON-OL-5010-038	This problem has been corrected in the OPC Server.
Memory leak in OPC Server A small memory leak occurred when OPC clients called AddItems in the AC800M OPC Server. Important 800xACON-OL-5010-038	This problem has been corrected in the OPC Server.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Consistency errors in CTA application In some situations consistency errors were reported on the automatically created CTA application for HI controllers. Important 800xACON-OL-5100-050	This problem has been corrected in Control Builder.
Duplicate controller GUIDs caused problems at Compact Control Builder upgrade If there were duplicate GUIDs on the controllers in a Compact Control Builder project it was not possible to connect applications to the controllers. 800xACON-OL-5100-052	This problem has been corrected in Control Builder.
Negative values transmitted with Modbus TCP and then converted from int to real Negative values transmitted through modbus was handled incorrectly, resulting in errors when trying to convert the value from int to real. 800xACON-OL-5022-002	This problem has been corrected in the AC 800M firmware. This problem has been corrected in CI867ModbusTcpHwLib 1.1-61 and CI867ModbusTcpHwLib 2.0-18.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Search and Navigation Tool Gave Wrong Result in OnlineMode If the tool was popped up in offline mode and the Control Builder was changed to online mode, the results in the search and navigation tool seemed to be wrong. The tool did not handle the mode change from offline to online. 800xACON-OL-5100-053	The tool is automatically closed when the Control Builder changes mode between offline and online.
Incorrect zero value in OPC server shortly after startup If an OPC Client, shortly after OPC Server startup, created a subscription with long update rate, incorrect values (0) with quality Good could be reported from the AC800M OPC Server. 800xACON-OL-5020-032	This problem has been corrected in the OPC Server.
The Filter Icon in the Editor is not Updated Correctly The filter icon was sometimes displayed when there was no filtering and vice versa. 800xACON-OL-5100-054	This problem has been corrected in Control Builder.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Structure Text Code was Copied Between Tabs when Changing Tab When having an empty ST code block (with only one carriage return) and jumping between tabs, the result in rare cases was that the code entered in the second code block was copied to the first code block. 800xACON-OL-5100-055	This problem has been corrected in Control Builder.
ACOFAct3P and ACOFActDeact3P May be Delayed One Scan Timing problems for action, feedback in and the opposite were set in scans in direct sequence for the three position variants. One scan in between was needed for internal update purposes before the object turned back to the original state. This problem occurred only in very rare situations. Important 800xACON-OL-5100-056	This problem has been corrected in BasicLib 1.6-9.
Unnecessary event in Audit trail when switching tabs in face plates Unnecessary events were logged in Audit trail when switching tabs in the faceplates of PidAdvancedCC and PidCC. 800xACON-OL-5100-057	The problem has been corrected in ControlAdvancedLibGraphExt 1.1-5 and ControlStandardLibGraphExt 1.1-7. The correction is done only in Process Graphic 2.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Feedback time on the function block ACStdDrive It was not possible to change Feedback time on all drive objects from ProcessObjDriveLib-1-3-6. It will only be the init value set by the user. 800xACON-OL-5020-018	This problem has been corrected in ProcessObjDriveLib 1.4-5. Interaction possibilities are enabled.
Difference in written signal range for analog I/O There was a difference between analog I/O modules on how a signal range was named. Example: 4...20mA or 4-20mA This was a problem when using the Bulk Data Manager. 800xACON-OL-5100-059	This problem has been corrected in Control Builder.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Wrong Parameter Values in ProcessObjDriveLib The parameters ILockStart and ILockStop had a mixed up functionality. The functionality was like: ILockStart prohibits the object to enter Stop mode and ILockStop prohibits the object to enter Start mode. For the ACStdDrive types : If the object setup 'FollowerDrive' or 'UseSP2' is selected, the output 'WindowCtrlOn.Value' is set to the value 65535 if the parameter WindowControl is true or the TrwSelectorValue=5 else the 'WindowCtrlOn.Value' is set to 0. 800xACON-OL-5012-006	This problem has been corrected in ProcessObjDriveLib 1.4-5. Now it has been switched to the correct behavior: ILockStart prohibits the object to enter Start mode and ILockStop prohibits the object to enter Stop mode. The latter behavior is similar for other process objects. For the ACStdDrive types: If the object setup 'FollowerDrive' or 'UseSP2' is selected, the output 'WindowCtrlOn.Value' is set to the value 65535 if the parameter WindowControl is true or the TrwSelectorValue=6 else the 'WindowCtrlOn.Value' is set to 0.
CI853 as a modbus master could cause a controller reset Using CI853 as modbus master could in some cases cause a controller reset during runtime when reading telegrams with more than 60 registers or 960 boolean. Important 800xACON-OL-5020-035	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Wrong initial value shown in Source Code Report The initial value for cold retain values was incorrectly displayed for variables of the type time and date_and_time. The value of the last instance of any of these types was displayed for all variable instances. This meant the value did not match the value entered in POU Editor. Important 800xACON-OL-5100-060	This problem has been corrected in Control Builder.
Control Builder crash when download to SoftController or going to "Test Mode" Sometimes the Control Builder could crash when downloading an application to SoftController, or entering Test Mode. Important 800xACON-OL-5100-061	This problem has been corrected in Control Builder.
New alarms added to controller in LEG session could be lost A new alarm added to a new object in an application and downloaded in a LEG session could be lost. Important 800xACON-OL-5100-045	This problem has been corrected in Control Builder.

Table 78. Operational Issues (Continued)

Issue	Correction or Fix
Libraries were displayed in the Search and Navigation dialog without an icon Libraries were displayed without an icon in the Search and Navigation dialog. 800xACON-OL-5100-003	This problem has been corrected in Control Builder.
Re-configuration of Large Hardware Structure may Cause Controller Shutdown A download of hardware configurations did, in very rare situations, cause a controller shutdown. The shutdown occurred if hardware units with active alarms were moved by the re-configuration, that is, if they were moved in the Control Builder hardware structure before the download. Important 800xACON-OL-5100-063	This problem has been corrected in the AC 800M firmware. This problem has not been corrected in the AC 800M High Integrity firmware.

Section 7 PLC Connect and SoftPoint Server

This section details the Fixed Problems for PLC Connect and SoftPoint Server that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Operation

Table 88 lists the major system or product operational issues that have been corrected since the previous version or service pack. A brief description of the correction has also been given wherever possible.

Table 78 Operational Issues

Issue	Correction or Fix
False events / alarms from PLC connect on signals with bad quality. Important 800xAPLC-OL-5020-018	No alarms raised for signals with bad quality.

Table 78 Operational Issues (Continued)

Issue	Correction or Fix
After a communication break PLC Connect doesn't update the time stamp when communication is established again. Important 800xAPLC-OL-5020-019	The time stamp is now updated on value changes and on quality changes.
AE Server getting to Dead lock state once alarm acknowledgement is attempted on already acknowledged alarm. Important 800xAPLC-OL-5023-012	This dead lock was caused by two threads acquiring two locks in different order. The locks are now requested in the same order from both threads.

Configuration

Table 79 lists the major system or product configuration issues that have been corrected since the previous version or service pack. A brief description of the correction has also been given wherever possible.

Table 79 Configuration Issues

Issue	Correction or Fix
method ~ of object ~ failed for adssigConf when signal inserted in functional structure. Important 800xAPLC-CN-5020-016	The problem has been corrected.
Writing to Modbus fails if word order is reversed. Important 800xAPLC-CN-5100-006	The word order of the written value is now reversed before the telegram is sent to the controller.

Table 79 Configuration Issues (Continued)

Issue	Correction or Fix
AdsScadaSrv hangs and no failover occurs. Important 800xAPLC-CN-5100-012	The service is configured to be shutdown automatically if it hangs for more than 5 minutes.
Sattbus communication does not run after restore. Important 800xAPLC-CN-5100-013	The files necessary for Sattbus communication are now included in the backup.
Override Default Condition Name not updated when changed using Bulk Data Manager. Important 800xAPLC-CN-5100-014	The problem has been corrected.
The timeout settings is not visible in the Comli driver. Important 800xAPLC-CN-5104-001	The problem has been corrected.

Fixed in 800xA 5.1 Revision D

Table 79 and Table 80 lists the Configuration and Operation issues that have been corrected in PLC Connect and SoftPoint Server for 800xA 5.1 Revision D.

Table 79. Configuration Issues

Issue	Correction or Fix
If you try to use the OPC browser more than once in a row from the same signal, the browser gives an error and comes up empty. 800xAPLC-CN-4100-002	Initialization of the OPC browser should be moved from UserControl_Show to cmdBrowse_Click in AdsSigConfASOView.cls of the signal configuration aspect. Product Bulletin: 9ARD122017-034
Not possible to configure 800xA PLC Connect Communication object. 800xAPLC-CN-5100-010	The click event for the radio buttons has been corrected so that the text boxes are enabled. Product Bulletin: 9ARD122017-040
Signals become unconnected and set to default controllable and default range if uploaded more than once. 800xAPLC-CN-5100-009	This problem has been corrected. *Product Bulletin: 9ARD122017-23*
PLC Uploader Filter dialog box displays wrong type for certain Items. 800xAPLC-CN-5101-003	This problem has been corrected. *Product Bulletin: 9ARD122017-24*
Not possible to enter delay between telegrams for Comli. Important 800xAPLC-CN-5010-016	The possibility of entering a delay between telegrams has been added for the Comli protocol.

Table 80. Operational Issues

Issue	Correction or Fix
It has been seen in reports from the field that the collection of dial history can fail under certain circumstances because the files are stored in a directory that also contain other files. Important 800xAPLC-OL-5101-004	*The history files have been moved to a subdirectory where there are no other files.* *Product Bulletin: 9ARD122017-22*
When consistency check is performed on PLC Connect signals you can get a broken property reference error. This error is caused by a faulty implementation in the aspect wrapper GetRelations function and is not a consistency error. Important 800xAPLC-OL-5100-004	The implementation in GetRelations has been changed to report this as the aspect relation that it is. *Product Bulletin: 9ARD122017-031*
Deploy server sometimes cannot read object configuration. Important 800xAPLC-OL-5102-002	An extra row has been added to the deploy manger log to show the GUID of the object that cannot be read (****SEVERE 143C Parse Object failed 80070057 GUID is {xxxxxxxx-xxxx-xxx-xxx-xxxxxxxxxxxx}). When this happens the object will automatically be saved again and the deploy should proceed in a normal manner. *Product Bulletin: 9ARD122017-032*
Memory leakage during deploy operation. Important 800xAPLC-OL-5100-006	The problem was due to incorrect handling of dynamically created objects. Proper handling was implemented as part of the fix, which will free up the dynamically allocated memory. *Product Bulletin: 9ARD122017-033*

Table 80. Operational Issues (Continued)

Issue	Correction or Fix
Property permissions cannot be set to default values. Important 800xAPLC-OL-5010-010	Before saving the property permissions, a check is performed to see if the default permissions should be saved for the instance. *Product Bulletin: 9ARD122017-042*
Scaling of values from dial history doesn't work. Important 800xAPLC-OL-5020-015	The scaling of historical values has been updated to match the scaling mechanism that was introduced in PLC Connect 5.0 SP2. *Product Bulletin: 3BSE074763*
Auto disconnect in the dial up function doesn't hang up after time out. 800xAPLC-OL-5020-016	This functionality has now been added to PLC Connect. *Product Bulletin: 3BSE074764*
PLC Server not starting up due to dependency on applogservice Important 800xAPLC-OL-5010-011	This dependency has been minimized so that PLC Connect can start independently of the applogservice.
Some aspects are showing error after updating the System from 5.1 FP3 to 5.1 FP4. Important 800xAPLC-OL-5102-001	This situation occurs because the build number of PLC Connect has not been updated in FP3 & FP4, the build number for Rev D has been appended that resolves this problem.

Fixed in 800xA 5.1 Revision B

Table 81 and Table 82 lists the Configuration and Operation issues that have been corrected in PLC Connect and SoftPoint Server for 800xA 5.1 Revision B.

Table 81. Configuration Issues

Issue	Correction or Fix
Numbers in PLC Connect "PLCValues" file have low precision. 800xAPLC-CN-5022-006	The precision of the stored value has been increased.
PLC Connect ClientSupport Server crashes during upload from RSLinx. 800xAPLC-CN-5023-005	A null string being returned from the OPC server could cause the uploader logging component to crash. This string is now checked for null before use.
All tags in the OPC Server show Bad quality when making new 800xA client subscription. 800xAPLC-CN-5024-002	The time for setting communication to Bad if there is no response from OPC server is no longer triggered after a deploy.
Race condition in PLC Connect server. 800xAPLC-CN-5101-002	This problem has been corrected.

Table 82. Operational Issues

Issue	Correction or Fix
Dial Manager service does not start automatically. 800xAPLC-OL-5101-002	The dial manager now starts automatically after a failover.
Heap corruption using PG2 graphics. 800xAPLC-OL-5101-003	Referencing a PLC Connect configuration property from PG2 could lead to a heap corruption, which in turn causes the workplace to crash or show incorrect values for other properties. To avoid this, the assignment of the configuration property has been changed.

Fixed in 800xA 5.1 Revision A

Table 83 and Table 84 lists the Configuration and Operation issues that have been corrected in PLC Connect and SoftPoint Server for 800xA 5.1 Revision A.

Table 83. Configuration Issues

Issue	Correction or Fix
The Modbus TCP driver should implement bit referencing. 800xAPLC-CN-5023-002	It is now possible to address a specific bit of a register for a boolean signal. The syntax is in the form HRAxxxxx,BITy, where y (in the range 0-15) is the bit from which the boolean should get its value. This does not affect the Softpoint server.
Not possible to set Number of Decimals via Bulk Data Manager 800xAPLC-CN-5022-006	The data type of the low limit has been changed to string to make it possible to enter the number of decimals from bulk data manager.
Timeout for Aspect Directory Connection. 800xAPLC-CN-5100-003	The check of the connection to aspect directory has been changed to use a more robust method to reduce the number of restarts.

Table 84. Operational Issues

Issue	Correction or Fix
Log Operator Action does not apply to limit 800xAPLC-OL-5023-004	The log operator action function has been extended to include changes of the limit value. This affects both PLC Connect and the Softpoint Server.
Current Timer Queue handling can cause exception during server shutdown 800xAPLC-OL-5023-008	This event occurred because of the TimerQueue function. DeleteTimerQueue() was being used for Deleting the Timer Queues but this function is now obsolete. This function is replaced with new function DeleteTimerQueueEx() with INVALID_HANDLE_VALUE parameter in Communication Server, OPC Driver, AE, Scada Server and RTDB.
Both redundant PLCC Service Provider in state "Synchronizing" 800xAPLC-OL-5023-009	A check mechanism is added in redundant system so at any point of time, one PLCC Service Provider will go to state "Service".
800xA error in Log Configuration Aspect 800xAPLC-OL-5022-002	In case of communication failure between PLC Connect and OPC Server, only the quality was updated in RTDB but not the timestamp for the signals. Because of this behavior in the log configuration aspect there was an extrapolation of the bad quality for longer time though the communication between the PLC Connect and OPC server was restored. This function is corrected by adding the update of timestamp in RTDB along with the quality of signal.

Fixed in 800xA 5.1

Table 85, Table 86, Table 87, and Table 88 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in PLC Connect and SoftPoint Server for 800xA 5.1.

Table 85. Installation Issues

Issue	Correction or Fix
PLCC does not work with PGIM. Important 800xAPLC-IN-5012-001	PLCC, hence forth will not install OPCEnum. Only the OPC-server will install OPCEnum, not a client such as PLCC. This does not affect the SoftPoint Server.

Table 86. Administration Issues

Issue	Correction or Fix
Object dialog Aspect does not work. 800xASYS-AD-5000-001	After an upgrade the .add-file for the object dialog had to be loaded manually before the Object dialog works. This problem has been corrected. This affects both PLC Connect and the SoftPoint server.

Table 87. Configuration Issues

Issue	Correction or Fix
Use of Bulk Data Manager. Important 800xAPLC-CN-5000-005	PLC Connect and SoftPoint Server support the use of the Bulk Data Manager with one exception: Alarm Event Settings aspect cannot be set up. This problem has been corrected. This affects both PLC Connect and the SoftPoint server.
Event collector service has to be restarted after restore. 800xAPLC-CN-5010-002	After a migration of a PLCC project from System Version 3.1 to System Version 5.1 through PPA Restore, the A&E functionality sometimes does not work even if the project is configured and deployed and all services appeared to be running ok. No events are generated in this situation. The workaround was to restart the PPA event collector service. This problem has been corrected. This affects both PLC Connect and the SoftPoint server.
Modbus communication stops when PLCC address is outside the address range. Important 800xAPLC-CN-3100-002	If a Modbus address outside the controller address range is used the communication time-out can be very long and it seems to be stopped. So only Modbus addresses within the communication area was used. This problem has been corrected. This does not affect the SoftPoint server.
Unable to upload OPC-items using dots as characters. Important 800xAPLC-CN-5000-020	It is possible to upload OPC-items using dots as characters but there was a missing error message in PLCC. An error-log is added if ValidItems fails. This does not affect the SoftPoint server.

Table 87. Configuration Issues (Continued)

Issue	Correction or Fix
Unique name when browsing a signal, GUID is used. Important 800xAPLC-CN-5020-002	If a signal was selected for "When detected notify", "When acknowledged notify", for Summary Alarm and later the signal's name was changed, then the function would fail because the original name of the signal was stored, that is, a conflict in signal name occurs. This is now changed to allow only the GUID of the signal to be stored. This affects both PLC Connect and the SoftPoint server.
PreTreat3 sample code does not work in PLC Connect System Version 5.0 SP2. 800xAPLC-CN-5020-003	In System Version 5.1 the sample code for PreTreat2 and PreTreat3 is removed. Use PreTreat4 instead. It is still possible to upgrade old versions of PLCC with PreTreat2 and PreTreat3. Both PreTreat2 and PreTreat3 will be removed in future versions of PLCC/SPS. This affects both PLC Connect and the SoftPoint server.
LowLimitPLC and HighLimitPLC are wrong after migration from SB2. Important 800xAPLC-CN-5021-005	After a migration from SB2 the values for LowLimitPLC and HighLimitPLC were set to zero. This problem has been corrected. This does not affect the SoftPoint server.
Inheritance of Alarm Owner setting not working. Sometimes the alarm owner setting is not inherited for instances of composite object types even if the object is set to inherit it. 800xAPLC-CN-5020-009	This problem has been corrected. This affects both PLC Connect and the SoftPoint server.
Irrelevant warning messages during deploy. Important 800xAPLC-CN-5021-001	This problem has been corrected. This affects both PLC Connect and the SoftPoint server.

Table 87. Configuration Issues (Continued)

Issue	Correction or Fix
Free signals deleted when aspect deleted from the type. If you delete an aspect from one of the extended signal types all "free signals" of that type are deleted. Important 800xAPLC-CN-5010-014	This problem has been corrected. This affects both PLC Connect and the SoftPoint server.
Default Slave Unit Identifier for Modbus TCP Master in PLC Connect. 800xAPLC-CN-5020-010	The default Modbus slave id has been changed to 255. This does not affect the SoftPoint server.
Problem to select COM port for serial protocols. The ports from number 10 to 32 are not working. Important 800xAPLC-CN-5020-012	When using Com ports above 9 in Windows the \\.\ device prefix had to be added. This is now done automatically by the driver. This does not affect the SoftPoint server.
Adapt Object PCA for Process Graphics. If the properties LOCK or WarningLevel are used in Process Graphics 2 the data subscription will not work when new process objects are created in Control Structure. Important 800xAPLC-CN-5021-002	PLCC/SPS is now working with Process Graphics 2 for all objects types created in System Version 5.0 SP2 RU2 and later. For object types created in System Version 5.0 SP2 RU1 or earlier the Workaround is: 1. For each object type select the type definition aspect. 2. Click the Aspect Control tab, select the Object PCA aspect, and select the "Copy to all instances". 3. Apply the changes. This affects both PLC Connect and the SoftPoint server.

Table 87. Configuration Issues (Continued)

Issue	Correction or Fix
It is not possible to add multi-level composite object types to another object type if there are already instances of the second type. Important 800xAPLC-CN-5020-013	This problem has been corrected. This does not affect the SoftPoint server.
Checkbox Log Status Changes On and Log Status Changes Off are not checked if alarm. 800xAPLC-CN-5012-002	When a signal is defined as an alarm, logging of status changes is automatically enabled. It will no longer be possible to clear checkboxes for an alarm. This affects both PLC Connect and the Softpoint Server.
Response signal don't work. Important 800xAPLC-CN-5011-006	The user interface has been changed so that you can now enter a hardware address for the response variable. A check has been added so that it is only possible to enable this functionality if the chosen protocol supports it. This does not affect the Softpoint Server.
CommServer hangs during deploy. Important 800xAPLC-CN-5020-014	This problem has been corrected. This does not affect the Softpoint Server.
Connection to OPCDA adapter lost when moving object or controller. Important 800xAPLC-CN-5022-003	When an object or controller is moved (or imported) to another Generic Control Network the PCA aspects of all objects and signals are updated with the correct data key. This affects both PLC Connect and the Softpoint Server.
Replace GUID with "path" for SP components. Important 800xAPLC-CN-5022-004	The simple properties for Alarm Text Group, Summary Alarm, When Detected Notify, When Acknowledged Notify and Operator Action Text Group are changed so it is possible to enter the path or the target signal when configuration is done with the Bulkdata Manager. This affects both PLC Connect and the Softpoint Server.

Table 87. Configuration Issues (Continued)

Issue	Correction or Fix
It takes a long time to save changes in signal configuration. Important 800xAPLC-CN-5023-001	When having multiple controllers and a large number of extended type signals it may sometimes take a very long time to the save configuration changes for the signal configuration. This problem has been corrected. This does not affect the Softpoint Server.
Timeout setting required for PLC Connect Modbus TCP Master. Important 800xAPLC-CN-5022-001	A new timeout configuration edit field was added to the driver settings dialog. The edit field value must be a number between 1 and 100000. If the init string parameter is missing a default value of 1000 is used. Before the protocol is opened the timeout time is set using the parameter in the init string. This does not affect the Softpoint server.
The PLC Connect server sometimes hangs when generating ITS-snapshots. Important 800xAPLC-CN-5022-005	When generating ITS-snapshots on a multicore CPU the PLC Connect server sometimes hangs. Process affinity has been set to limit the PLC Connect services to run on only the first CPU.

Table 88. Operational Issues

Issue	Correction or Fix
Acknowledge Time is not Correct. 800xAPLC-OL-5000-001	If a redundant connectivity server pairs up, runs and acknowledges an alarm, and later on restarting one of the connectivity servers, the acknowledge time is found to be incorrect. This problem has been corrected. This affects both PLC Connect and the SoftPoint server.
Blocked and NON Active Alarms are not displayed correctly in the Alarm List. Important 800xAPLC-OL-5012-003	Modified the internal handling of event state in the Eventserver so that an event can have multiple states. This affects both PLC Connect and the SoftPoint server.
PLCC cannot handle OPC server returns VT_EMPTY datatype. 800xAPLC-OL-5012-001	Write operations failed if the OPC server returns VT_EMPTY as canonical datatype. This behavior is changed and now PLC Connect can handle these type of items.This does not affect the SoftPoint server.
All communication doesn't work in some special situations on Master. Important 800xAPLC-OL-5020-001	If a redundant PLCC connectivity server node changes master/slave state quickly, from master to slave and back to master, the PLC communication may fail to start when the final master state is reached. The reason for this is that the internal communication sub system is still handling the first state change, from master to slave, when the second state change occurs. Since the second state change is not handled by the communication subsystem it ends up in slave state where PLC communication is not started. This situation can occur if there is a communication problem in the network connecting the connectivity and aspect directory servers. This error is corrected in Product Bulletin: 3BSE051984D0009. This does not affect the SoftPoint server.

Table 88. Operational Issues (Continued)

Issue	Correction or Fix
Wrong Alarm Management when "Communication failure." 800xAPLC-OL-4100-005	This problem is only relevant for binary signals. The problem occurs if the value of the binary signal changes from on to off, or from off to on, during the time when the quality is Bad or Uncertain. Later, when the quality of the signal changes from Bad or Uncertain to Good the EventServer is not notified because of a filter in the Commserver that evaluates if the value has changed. This error is changed so the CommServer takes quality changes into consideration. If the quality changes from Bad or Uncertain to Good the EventServer should be notified even if the value hasn't changed. See Product Bulletin: 3BSE051984D0016. This affects both PLC Connect and the SoftPoint server.
No fail over at communication error on SattBus. Important 800xAPLC-OL-5020-005 Product Bulletin 3BSE051984D0018	This problem has been corrected. This does not affect the SoftPoint server.

Table 88. Operational Issues (Continued)

Issue	Correction or Fix
Failover if OPC quality is bad. Important 800xAPLC-OL-5020-011	Added a new functionality in System Version 5.1. A new setting has been added for the redundancy configuration in the controller configuration aspect. This is a check box called "Check Item Quality." When this is checked, two signals are automatically selected for supervision. The two selected signals are the first and the last entry in the protocol driver signal map that contain all signals for a controller. If one of the signals is removed while the protocol is running, a new signal is selected using the same algorithm. If signals are added, no change is made even if the new signals are the first or the last in the map. If the quality for one or both of the supervised signals becomes bad, the communication status for the controller is set to False (not connected). When both signals are not bad, that is, uncertain or good, the communication status is set to True (connected). The setting of the communication status is coordinated with other data that affects the status, for example, server error status. This does not affect the SoftPoint server.
Adapt Dial for dual/quadruple core due to suspected problems in some situations. Important 800xAPLC-OL-5012-004	Dial is now adapted for more than one CPU. This does not affect the SoftPoint server.
PLC Connect Communication Server process crashes during shutdown. 800xAPLC-OL-5012-002	The unloading of the protocol drivers has been changed so that all protocols are stopped before the process of unloading the driver dll is started. This does not affect the SoftPoint server.
SoftPoint Server Master state changing. Important 800xAPLC-OL-5012-005	This affects both PLC Connect and the SoftPoint server.

Table 88. Operational Issues (Continued)

Issue	Correction or Fix
Error when connecting OPC server. For some OPC Servers (for example, RSLinx OPC Server) the OPC Client can hang when connecting to the server (In call to CoCreateInstance). Important 800xAPLC-OL-5022-001	This problem has been corrected. This does not affect the SoftPoint server.
The Commserver can crash when using the COMLI protocol and more than one CPU. Important 800xAPLC-OL-5020-002	When using the COMLI protocol and using a several number of COM ports, for example, via a port server together with more than one CPU, (HyperThreading Dual Core) the communication server may crash sometimes. This error is now resolved. See Product Bulletin: 3BSE051984D0010. This does not affect the Softpoint Server.
PreTreat ValueChanged is not called on change of quality. Important 800xAPLC-OL-5020-013	The ValueChanged method of the pretreat interface will be called on a change of quality for all protocols. This does not affect the Softpoint Server.
Alarm & Event Information missing in synchronization data. Important 800xAPLC-OL-5021-002	Acknowledge time, force time and disable time have been added synchronization data for alarm & event. This affects both PLC Connect and the Softpoint Server.
Alarms with SourceGuid 0 may be generated during upgrade to System Version 50 SP2. Important 800xAPLC-OL-5023-005	During upgrade an automatic deploy is performed and the new property, AlarmOwner, is calculated. If new alarms occurred before the deploy was finished, the AlarmOwner property would be empty and the new alarms would not be seen in the alarm list. Now the AlarmOwner property is checked before an alarm is generated, if the value is empty the signal is set as alarm owner. This affects both PLC Connect and the SoftPoint server.

Table 88. Operational Issues (Continued)

Issue	Correction or Fix
Wrong or missing status/value after failover on OPC. Important 800xAPLC-OL-5023-003	To eliminate the risk for lost data updates PLC Connect now always asks for a full refresh from an OPC server after a failover so that the value and quality will be updated for all items. This does not affect the Softpoint server.
Alarms may disappear from the Alarm list after Refresh. Important 800xAPLC-OL-5023-006	If there are more than 100 active alarms the alarm and event server will send more than one refresh message. The server would indicate that each message was the last one, causing the event collector to accept the first message and discard the following messages. Now this flag will only be set for the last refresh message. This affects both PLC Connect and the SoftPoint server.
Error in ICVariables. Important 800xAPLC-OL-5023-007	Each instance of the class CITSLog opens a handle to the mutex ITSLogFileMutex, when it is constructed. This handle is now closed in the CITSLog destructor. This affects both PLC Connect and the SoftPoint server.
WriteItems sometimes timeout during deploy. Important 800xAPLC-OL-5012-007	A timeout is added for the for write operations from the event server. The handling of write commands from the event server is also improved to eliminate a possible race condition. This affects both PLC Connect and the SoftPoint server.

Table 88. Operational Issues (Continued)

Issue	Correction or Fix
Changes to Object Dialog, Operator Note, and PCA aspects for New Graphics. Important 800xAPLC-OL-5100-001	For Process Object Configuration aspect; The setting for the Object Dialog and the Operator Note aspects have been changed to copy instead of create in SetAspectRules. During upgrade; The automatic creation of the Object PCA, Object Dialog and the operator note aspects have been removed from the category control tab in the type definition aspect and instead the type is configured so that the aspects will be copied. This affects both PLC Connect and the SoftPoint server.
Incorrect handling of Master/Slav when reconnecting communication. 800xAPLC-OL-5021-001	The PLCC service monitors the connection to the AS. If the connection to the AS is lost the service leaves Service-state (or Standby-state if slave) and goes to Synchronizing-state. This affects both PLC Connect and the SoftPoint server.

Table 88. Operational Issues (Continued)

Issue	Correction or Fix
Changes in configuration for SattBus. 800xAPLC-OL-5021-003	The SB System settings configuration is moved into the Communication Parameters dialog. After upgrading to System Version 5.1, the SB System Settings needs to be updated: • Select the PLC Controller Configuration aspect for a Sattbus controller and press Edit Driver. • Configure the Common System Settings and press **Ok**. • Restart the Connectivity server. This does not affect the Softpoint server.
Dial function doesn't work with redundant servers. Important 800xAPLC-OL-5023-002	The Dial Manager server is now only running on the connectivity server that is acting as master. This does not affect the Softpoint server.

Section 8 Multisystem Integration

This section details the Fixed Problems for Multisystem Integration that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 89 lists the Operational issues that have been corrected in Multisystem Integration for 800xA 5.1 Revision E.

Table 89. Operational Issues

Issue	Correction or Fix
The Subscriber system might display incorrect data after a configuration change in the Provider system. For more information see Product Alert: 3BSE079024. 800xAMI-OL-5140-001	This problem has been corrected.

Table 89. Operational Issues (Continued)

Issue	Correction or Fix
All data connections from a subscriber system to a provider system is by default routed through the primary RAS server. If the primary RAS server is stopped all the connections will fail over to the redundant RAS server. This leads to unnecessary load and disturbances to the system. 800xAMI-OL-5110-009	A new feature UseBalancedRedundancy has been added to support load balancing. To configure the system to balance the connections between primary and redundant RAS servers: 1. Update the subscriber system to 5.1 RevE or 5.1 FP4 RevE. 2. Update the registry key "HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\ABB\AFW\SystemModules\RAC\1.0-0\private\UseBalancedRedundancy" and set the value to 1 on all Remote Access Clients (RAC) in the subscriber.
In 800xA MI S-FP 5.1.3-1 TC1, 800xA MI S-FP 5.1.3-1 TC2 and 6.0 the feature "UseBalancedRedundancy" was introduced (800xAMI-OL-5110-009). This feature needs to be manually enabled. When this is enabled object locking functionality will fail on uploaded objects in the subscriber system. For more information see Product Bulletin:3BSE082247. 800xAMI-OL-5141-001	This problem has been corrected.
An upload may fail if the uploaded structures contains inconsistencies. The AfwRAC service consumes large amounts of memory and may crash. 800xAMI-OL-5110-011	This problem has been corrected.

Table 89. Operational Issues (Continued)

Issue	Correction or Fix
Closing an uploaded Trend display in the operator workplace on the Subscriber System will cause a leak of both handles and memory in the workplace. This stops the log over functionality in the Workplace on the subscriber system. Trend displays configured with TRIM or SEAMLESS do not have this problem. 800xAMI-OL-5104-001	This problem has been corrected.
The time taken to upload objects from a provider to a subscriber system might increase, if it contains many OPC properties. 800xAMI-OL-5130-002	This problem has been corrected.
In a subscriber system containing many objects from a large provider system it can take long time (up to 3 minutes has been observed) before Graphic Displays get dynamic data. 800xAMI-OL-5110-012	This problem has been corrected.
When using the object Locking functionality on uploaded objects in a subscriber system the AfwRAC process will leak memory which can lead to a crash of the process. 800xASYS-OL-5110-074	This problem has been corrected.

Fixed in 800xA 5.1 Revision D

Table 90 lists the Operational issues that have been corrected in Multisystem Integration for 800xA 5.1 Revision D.

Table 90. Operational Issues

Issue	Correction or Fix
It has been reported once in a Multisystem Integration configuration that no new alarms were received from one of the provider systems to the subscriber system without indications of any problems in the subscriber. 800xAMI-OL-5110-008 Product Alert: 3BSE075737	Improvements have been done to Alarm and Event function to prevent this issue. A new Alarm function is also added that supervises the provider systems and create alarms in the subscriber system in case of broken alarm handling.
An upload of large amount of OPC properties can cause either the AfwRAC or AfwRAS service to crash due to high memory consumption. 800xAMI-OL-5024-009	This problem has been corrected.

Fixed in 800xA 5.1 Revision B

Table 91 and Table 92 lists the Configuration and Operation issues that have been corrected in Multisystem Integration for 800xA 5.1 Revision B.

Table 91. Configuration Issues

Issue	Correction or Fix
Sometimes wrong file sets can be used after an upload to the Subscriber system. The uploaded displays will not be presented correctly. 800xAMI-CN-5110-004	Improvement has been done to FSD to prevent Subscribers from getting wrong file sets.
An upload may fail if it contains large number of OPC properties. The reason is that the AfwRAS service will consume more memory and eventually crash. 800xAMI-CN-5022-015 800xAMI-OL-5024-009	The memory consumption during upload has been reduced.

Table 92. Operational Issues

Issue	Correction or Fix
Subscriptions on OPC properties with name ending with "**.**" will not work after an upload in a MI system. 800xAMI-OL-5110-001	This problem has been corrected.
Event Lists in Multisystem Integration systems leak a small amount of memory each time they are displayed in the Workplace. 800xAMI-OL-5110-006	There is no memory leak when the event lists are displayed in the Workplace.

Table 92. Operational Issues (Continued)

Issue	Correction or Fix
The Workplaces in a Subscriber system that present data from a Provider system, will crash if the Aspect Server in the Subscriber stops working. 800xAMI-OL-5100-006	This problem has been corrected.
Filtering of Alarm and Event lists does not work for the attribute *SystemName* in the subscriber systems. 800xAMI-OL-5024-003	This problem has been corrected.
After a network disconnect between the provider system and the subscriber system, the subscriber system may stop receiving new alarms and the entire alarm history from the provider system can get lost. The Alarm Lists configured to show only alarms from the provider system will be empty. 800xAMI-OL-5024-004	This problem has been corrected.
It is possible for an Operator working in the Subscriber System to lock Process Objects in the Provider System despite that the Operator does not have the Operate permission on the object. This problem will occur if the Subscriber is a workgroup system and the Provider is a domain system. Process Object Locking setting is configured as "Operation requires locking" in both the systems. 800xAMI-OL-5025-001	This problem has been corrected.

Fixed in 800xA 5.1 Revision A

Table 93 and Table 94 lists the Configuration and Operation issues that have been corrected in Multisystem Integration for 800xA 5.1 Revision A.

Table 93. Configuration Issues

Issue	Correction or Fix
For systems using PG2 a 'clean' operation of a large upload can fail. The failure is caused by exceeding the maximum process size of 2 GB during the delete transaction. The failure can also cause a temporary loss of the connection towards the provider system. Important 800xAMI-CN-5022-001	This problem has been corrected.
An upload can be locked if done simultaneously from more than one client in the subscriber system. Important 800xAMI-CN-5020-015	Now it is possible to do uploads from more than one client in the subscriber system.
A large upload that involves deploy of several Visual Basic graphic aspects continuously might cause a large memory usage. Important 800xAMI-CN-5100-002	User documentation has been updated with information that large uploads should be divided into smaller parts. For more information, refer to *System 800xA, Multisystem Integration (3BSE037076*)*.
Redundant RAC services requires two licenses. 800xAMI-CN-5023-002	A redundant RAC service requires one license.

Table 93. Configuration Issues (Continued)

Issue	Correction or Fix
Displays with unresolved references may not work after upload. Important 800xAMI-CN-5010-002	This problem has been corrected.
An upload can be locked if done simultaneously from more than one subscriber. Important 800xAMI-CN-5022-001	This problem has been corrected.

Table 94. Operational Issues

Issue	Correction or Fix
If a service or a service account performs a write operation to the OPC property before the user performing a write operation to the same OPC property, the audit trail for the write operation may be filtered away. Important 800xAMI-OL-5021-011	This problem has been corrected.
Memory utilization has been improved for the subscriber. Important 800xAMI-OL-5022-013	This problem has been corrected.

Table 94. Operational Issues (Continued)

Issue	Correction or Fix
It is possible for an Operator to lock a Faceplate even if the Subscriber is configured to run in Read Only Mode. Important 800xAMI-OL-5024-002	This problem has been corrected.
Sometimes the OPC tables that are used by the RAC service, enlarges. This prevents the service from starting. Important 800xAMI-OL-5022-014	The memory used by the OPC tables has been reduced.

Fixed in 800xA 5.1

and lists the Configuration and Operation issues that have been corrected in Multisystem Integration for 800xA 5.1.

Table 95. Configuration Issues

Issue	Correction or Fix
The category filtering works properly, while configuring the system event list in a Multisystem Integration system. Important 800xAMI-CN-5010-004	For more information about category filtering, refer to *System 800xA Multisystem Integration (3BSE037076*)*.
Since all uploaded displays are deployed during upload Visual Basic must be installed on the node running the Remote Access Client (AfwRAC.exe). 800xAMI-CN-5010-007	For more information about dependency on Visual Basic, refer to *System 800xA Multisystem Integration (3BSE037076*)*.

Table 95. Configuration Issues (Continued)

Issue	Correction or Fix
If deploy of a display element or display fails for an upload from a provider, the backup log can contain warning and error messages for each failed item. 800xAMI-CN-5010-012	For more information, refer to *System 800xA Multisystem Integration (3BSE037076*)*.
Empty Log Configurations should be deleted in the provider system. 800xAMI-CN-5010-017	For more information about empty log configuration, refer to *System 800xA Multisystem Integration (3BSE037076*)*.
Changes in object types are detected during upload. 800xAMI-CN-5020-001	This problem has been corrected.
Changes to references of alarm lists, no longer prevent a new upload. Important 800xAMI-CN-5020-002	This problem has been corrected.
Upload from providers with Process Industries Library and Power Technology Library to the same system is not possible. 800xAMI-CN-5020-003	For more information about the two libraries, refer to *System 800xA Multisystem Integration (3BSE037076*)*.
Aborting an upload process in Multisystem Integration can take a longer duration. 800xAMI-CN-5020-005	For more information about the time required for an abort process, refer to *System 800xA Multisystem Integration (3BSE037076*)*.
Object Locking is not supported in Multisystem Integration systems using Windows Workgroups. 800xAMI-CN-5020-008	Object lock now accept a lock from a subscriber running as a workgroup.
A Visual Basic license needs to be installed on the node which runs the Remote Access Client Service in the subscriber system, to enable an upload of faceplates. 800xAMI-CN-5021-007	For more information about the installation of Visual Basic license, refer to *System 800xA Multisystem Integration (3BSE037076*)*.

Table 96. Operational Issues

Issue	Correction or Fix
The Object Lock function is not supported in the current version of Multisystem Integration. 800xAMI-OL-5010-001	The object lock function is now supported with some limitations for Advant Master. For more information, refer to *System 800xA Multisystem Integration (3BSE037076*)*.
Operator Note is not uploaded from the provider system. 800xAMI-OL-5010-015	For more information about operator Note, refer to *System 800xA Multisystem Integration (3BSE037076*)*.
Multisystem Integration does not support object lock for 800xA for Advant Master. If the 800xA lock function is activated (for the AC 800M Controller), Advant Master process objects will not be operational. 800xAMI-OL-5020-004	800xA for Advant Master now supports object lock with some limitations. For more information refer to *System 800xA Multisystem Integration (3BSE037076*)*.
The memory leak in Trend Displays is corrected. Important 800xAMI-OL-5020-007	This problem has been corrected.

Section 9 SFC Viewer

This section details the Fixed Problems for SFC Viewer that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision B

Table 97 lists the Operation issues that have been corrected in SFC Viewer for 800xA 5.1 Revision B.

Table 97. Operational Issues

Issue	Change or Correction
In SFC viewer, *Disable All Actions* and *Block All Transition* are not working for 2D sequences. 800xASFC-OL-5020-006	The problem has been corrected. A new functionality **SFC Debug Mode** is added. For more information, refer *Printing Documentation in section 9, SFC Viewer* in *System 800xA Operations (3BSE036904-510 B*)*.
SFC Viewer Display issue: Incomplete jump arrow display at target first step when it is not the initial step. 800xASFC-OL-5102-004	Check the step ID instead of initial step flag.

Table 97. Operational Issues (Continued)

Issue	Change or Correction
SFC Viewer shows incorrect data of the transition when the variable used within that transition has hidden attribute. 800xASFC-OL-5101-002	The problem has been corrected.
IDF Viewer for Melody Call up faceplate from IDF Viewer is only possible from graphic view but not possible from list view. Important800xASFC-OL-5102-005	No workaround exists for this issue.

Fixed in 800xA 5.1 Revision A

Table 98 lists the Operation issues that have been corrected in SFC Viewer for 800xA 5.1 Revision A.

Table 98. Operational Issues

Issue	Correction or Fix
Memory leak is observed while opening and closing the SFC Viewer aspect. Important 800xASFC-OL-5101-001 800xASFC-OL-5023-004	The memory leak is now minimized.
Clicking a transition button when the corresponding transition window is already open causes the transition window to become inactive. Important 800xASFC-OL-5023-003	This problem has been corrected.

Fixed in 800xA 5.1

Table 99 lists the Operation issues that have been corrected in SFC Viewer for 800xA 5.1.

Table 99. Operational Issues

Issue	Correction or Fix
Transitions with a large number of input arguments are not completely displayed in the SFC Viewer Transition window List view and Graph view. 800xASFC-OL-5023-001	It is now possible to scroll down in the List view window to view all the entries.
SFC Viewer and Function Designer: SFC Viewer does not work correctly for manually built sequence functions. 800xASFC-OL-5020-005	For more information, refer to *System 800xA Engineering Engineering Studio Function Designer (3BDS100968*)*.
SFC Viewer structure window shows missing or redundant lines. Important 800xAMEL-OL-5023-138	The structure window now shows the steps and transitions without any drawing error.
SFC Viewer: After call-up the action window covers the active step. The transition window appears with a offset. Important 800xASFC-OL-5100-002	After call-up the action window does not cover the active step.
SFC Viewer: SFC Viewer shows scrambled chart. 800xASFC-OL-5100-001	SFC Viewer does not show scrambled chart when the first step is a jump destination.

Section 10 Process Engineering Tool Integration

This section details the Fixed Problems for Process Engineering Tool Integration (PETI) that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1

Table 100 lists the Operation issues that have been corrected in PETI for 800xA 5.1.

Table 100. Operational Issues

Issue	Correction or Fix
In the Express mode, the user cannot filter or assign controllers and cards in the hardware tree. Important 800xAENP-OL-5100-001	Hardware objects (under "Control Wiring" in the CAEX file) with no descendant tags are excluded by the **Comparer** and it is not transferred to 800xA.
There is no color-coding available for the mapped objects, in the Control Structure and Functional Structure. 800xAENP-OL-5100-002	The CAEX objects and attributes on the Transfer page are color-coded the same way as on the Mapping page (blue color indicates mapped, and black indicates not mapped).

Table 100. Operational Issues (Continued)

Issue	Correction or Fix
Web service errors are neither logged nor displayed to the user. *Important* 800xAENP-OL-5100-003	The application has been updated to convey the 200 recent log messages generated by the web services as part of the SOAP exception message.
User can not edit the mapping files to delete unused, duplicate, and inconsistent mappings. *Important* 800xAENP-OL-5100-004	A **Map File Editor** has been added to Process Engineering Tool Integration to delete unused, duplicate, inconsistent mappings, and to update map paths.
After setting breakpoint in the transfer window, the execution does not resume properly. 800xAENP-OL-5100-005	The **breakpoint** feature has been removed. Workarounds such as run partial compare or block transactions are still exist to achieve the same result.
Every control module type appears twice in the Object Type Structure, which leads to Expert Mapping issues. 800xAENP-OL-5100-006	Every control module type appears twice in the Object Type Structure (one directly under **Control Module Types** and the other as its own grandchild). The user may map to one while the Expert Mapping path may point to the other. Consequently, the aspects and properties of the control modules are not displayed on the Mapping page. Product has been corrected to check both instances to see if there is a match for expert mapping. If it matches, then the aspects and properties are displayed.
When performing Object Reconciliation for renamed objects, there is a mismatch between the selected CAEX object and the auto-selected 800xA object. *Important* 800xAENP-OL-5100-007	When performing Object Reconciliation for renamed objects, there is no mismatch between the selected CAEX object and the auto-selected 800xA object.

Table 100. Operational Issues (Continued)

Issue	Correction or Fix
Process Engineering Tool Integration occasionally fails to add PETI aspect to objects instantiated from a Function Diagram template. Important 800xAENP-OL-5100-008	It has been changed to make a second attempt if the first attempt fails.
Filter Objects with Specific Status does not work with web service option. 800xAENP-OL-5020-001	Functionality to filter objects with specific status in Web Services mode is included in Process Engineering Tool Integration.
When exporting a CAEX file with the Import Export Utility after already performing this operation once, the Import Export Utility needs to be closed then opened for changes to be implemented. 800xAENP-OL-5020-002	This problem has been corrected.

Section 11 IEC 61850

This section details the Fixed Problems for IEC 61850 that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision D

Table 101 and Table 102 lists the Configuration, and Operation issues that have been corrected in IEC 61850 for 800xA 5.1 Revision D.

Table 101. Configuration Issues

Issue	Correction or Fix
In case of having IEC61850 user defined library, in Functional Structure it is observed that all PG2 Faceplate Element and PG2 Graphic Element aspects have the same name as 'Faceplate Element'. This problem is observed while updating from previous system version to SV 5.1. Important 800xAIEC-CN-5023-013	For standard recommendations, refer to *System Upgrade manual (3BSE036342*)*.

Table 101. Configuration Issues (Continued)

Issue	Correction or Fix
If the object types in the user defined libraries does not contain the mandatory aspects and if such a library is used during upload, the Uploader will not provide specific information on which aspect is missing in the object type. In such situation the upload will fail and Uploader gives error message saying upload failed in IEC 61850 aspect logger or sometimes the Uploader hangs. 800xAIEC-CN-5020-0005	The Uploader hang problem is not observed.
Service provider going to error state. When IEC 61850 OPC Server is configured for redundancy, it creates Service Group with two service providers, each with one node. The first node service provider goes to error state as Prog ID of OPC Server is not set correctly. 800xAIEC-CN-5020-0002	A hint is provided in *Section 4, 800xA IEC 61850 Alarm and Event Configuration of IEC 61850 Connect Configuration manual (9ARD171387*)*.
After the IEC 61850 OPC server CET project is migrated, deletion of Subnetwork or OPC server nodes in IEC 61850 OPC server CET project can throw an exception error. Important 800xAIEC-CN-5020-001	This problem has been corrected.
Consistency tool error for Graphic element geCircuitBreakerReducedCB Running Consistency tool throws error due to presence of Graphic element 'geCircuitBreakerReducedCB' under object type Circuit Breaker. Important 800xAIEC-CN-5023-012	This problem has been corrected.

Table 101. Configuration Issues (Continued)

Issue	Correction or Fix
CET Tool crashes on import of scd-file with missing "type" attribute of SubNetwork in Communication section. Important 800xAIEC-CN-5024-001	This problem has been corrected.
IEC 61850 Connect does not support Upload of PTR objects if present in scd file. Important 800xAIEC-CN-5100-001	This problem has been corrected.
Item IDs in Control Connection aspect get jumbled up. Important 800xAIEC-CN-5020-0003	This problem is not observed in 800xA 5.1 Rev D.
Uploader crashes while uploading SCD file containing '&' character in description of any Conducting Equipment or Bay. Important 800xAIEC-CN-5104-009	This problem has been corrected.
Uploader stops during the append operation, when a generic object with the same name of the substation already exists at the same level of substation in Functional Structure. Important 800xAIEC-CN-5104-014	This problem has been corrected.
OPC Server - IED communication 'Drop-out' occurs intermittently. Important 800xAIEC-CN-5104-013	For standard password recommendations for CET FTP File transfer, refer to Section 2, 800xA IEC61850 OPC Server, of *IEC 61850 Configuration manual (9ARD171387*)*.

Table 101. Configuration Issues (Continued)

Issue	Correction or Fix
Descriptions added in PPA for objects IED, LD, LN and Control Connection Aspect Properties are not retained after second upload of same SCD file. Important 800xAIEC-CN-5104-008	This problem has been corrected.
When multiple logical nodes with same name are assigned to a single Bay, using Latebinding mechanism it is not possible to ascertain which LN data is used in the Property value of the General properties aspect. For example. A Bay having two CVMMXU1 Logical Nodes are assigned from different sources and with the Property value containing path to CVMMXU1, it is not possible to ascertain which LN value will be used in runtime. Important 800xAIEC-CN-5100-003	Refer to Section 8 Object Type Specific Graphics for BAY of I*EC 61850 Connect Configuration manual (9ARD171387*)* for Limitations regarding Late Binding using General Properties.

Table 102. Operational Issues

Issue	Correction or Fix
In the IEC 61850 OPC server CET tool, the disturbance records from the IED cannot be uploaded to a local directory through the IEC 61850 MMS protocol. Important 800xAIEC-OL-5020-001	For standard procedure on uploading Disturbance records, refer to Section 2, 800xA IEC61850 OPC Server, of *IEC 61850 Connect Configuration manual (9ARD171387*).*
Some times values in Control Connection aspect and trend display will not updated if update rate is set for about 500ms. Important 800xAIEC-OL-5023-007	This problem is not observed in 800xA 5.1 Rev D.
Opening System status viewer at subnetwork level causes 100% CPU load for 2 to 3 minutes if subnetwork is having large number of IEDs (around 50). Important 800xAIEC-OL-5023-008	For standard recommendation to open System status viewer at subnetwork level having large number of IEDs (around 50), refer to Appendix D System Status Viewer of *IEC 61850 Connect Configuration manual (9ARD171387*).*

Table 102. Operational Issues (Continued)

Issue	Correction or Fix
While configuring the IEC 61850 OPC Server, if a computer crashes, the project database is corrupted. The project database cannot be opened again from the IEC 61850 OPC Server CET tool after restarting the computer. 800xAIEC-OL-5023-011	For standard recommendation to recover the CET project after a computer crash, refer to Section 2 800xA IEC61850 OPC Server of *IEC 61850 Connect Configuration manual (9ARD171387*).*
800xA Alarm and Events generated from LNs associated with Bay, Voltage Level and Substation do not indicate respective names of Bay, Voltage Level and Substation in Object name and Object description fields. Important 800xAIEC-OL-5101-002	This problem has been corrected. 800xA Alarm & Event list can now show the names of Bay, Voltage Level and Substation in Object name and Object description fields when alarm is generated by associated LNs

Fixed in 800xA 5.1 Revision A

Table 103, Table 104, and Table 105 lists the Installation, Configuration, and Operation issues that have been corrected in IEC 61850 for 800xA 5.1 Revision A.

Table 103. Installation Issues

Issue	Correction or Fix
IEC61850 Graphics Extension could not be installed on top of IEC 61850 Connect RU2a version. Important 800xAIEC-IN-5023-020	This problem has been corrected.
The Suppress Reboot check box seen in the Setup.exe screen while installing IEC 61850 Connect Package is not functional. 800xAIEC-IN-5020-0002	This problem has been corrected in this release. Ensure that the Suppress Reboot check box is cleared (default setting). This general recommendation is included in *System 800xA 5.1 Installation (3BSE034678-510) - Section 18 IEC 61850 Connect*.
Connectivity Package Manager icon is created when IEC 61850 OPC Server is installed as a part of IEC 61850 Connect Package. When this icon is double-clicked, an error is shown. 800xAIEC-IN-5020-0003	This problem has been corrected.

Table 104. Configuration Issues

Issue	Correction or Fix
On re-uploading a reconfigured scd-file with certain IED and LD objects removed, Uploader does not remove the same from the Control Structure. Important 800xAIEC-CN-5101-002	This problem has been corrected.
IEC61850 Uploader removes subnet object in Functional Structure. During subsequent uploading, IEC61850 Uploader removes existing subnet object in the Functional Structure from Project specific areas and moves it to the root object. 800xAIEC-CN-5023-014	This problem has been corrected.
Default PPA setting for IEC61850 OPC Server is incorrect. By default, the **Supports Refresh** check box of PPA Alarm Collection Definition Aspect for IEC61850 OPC Server is not selected. The default setting of **Supports Refresh** check box must be in selected state. 800xAIEC-CN-5023-015	This problem has been corrected.
Importing a new scd file overwrites the existing configured alarm and event in CET. Existing configured alarm and event in CET are overwritten while importing a new scd file. 800xAIEC-CN-5023-017	This problem has been corrected. Clear the Import protocol configuration (sAddr) check box in CET tool. This recommendation is also updated in *IEC 61850 Configuration (9ARD171387*)*.

Table 105. Operational Issues

Issue	Correction or Fix
Default Alarm and Event Severity values in CET tool are inconsistent. For example, Severity values for High Alarm and Low Alarm are different, thereby mapping them to different priority levels in 800xA. 800xAIEC-OL-5101-001	This problem has been corrected. Default Severity Values in CET are set as below: - For all Alarms : 800 - For all Warnings : 600 - For all Events : 400 Each category can now be suitably mapped to the same 800xA priority by the user.
Memory consumption of IEC 61850 OPC Server can increase. IEDs with unstable connection to IEC 61850 OPC server lead to higher memory consumption of IEC 61850 OPC server. Important 800xAIEC-OL-5100-001	This problem has been corrected.
Hardware tree structure under IEC OPC Server object instance will be disturbed if you follow the below steps: 1) Upload SCD file from first instance of IEC OPC Server with a subnetwork name. 2) Create second instance of an IEC 61850 OPC Server and upload different SCD file with same subnetwork name used in step1 from the Standard tab of Uploader aspect. Important 800xAIEC-OL-5023-009	This problem has been corrected. A pop-up message "Subnetwork should be unique" is displayed if two different scd-files with same subnetwork name are uploaded.
Problem to Configure Severity/Priority of RTN (Return To Normal) Alarm Condition. Important 800xAIEC-OL-5023-019	This problem has been corrected.

Fixed in 800xA 5.1

Table 106, Table 107, Table 108, and Table 109 lists the Installation, Configuration, Operation, and Instruction Manual Changes issues that have been corrected in IEC 61850 for 800xA 5.1.

Table 106. Installation Issues

Issue	Correction or Fix
Simultaneous launching of IEC 61850 Connect & IEC 61850 Connect MSDE installation. During installation of IEC 61850 Connect Package, MSDE installation (which is a part of IEC 61850 Connect Package) is launched in parallel. 800xAIEC-IN-5020-0001	This problem has been corrected.
IEC 61850 Uploader not working. In a system, which has both AC 800M Connect and IEC 61850 Connect installed, if Control Builder is uninstalled, IEC 61850 Uploader will stop working. Important 800xAIEC-IN-5020-0004	This problem has been corrected.

Table 107. Configuration Issues

Issue	Correction or Fix
"Subnetwork name is not unique" error message. Error message, "Subnetwork name is not unique" appears when you follow the steps mentioned below: 1. Upload SCD file from the first instance of an IEC 61850 OPC Server with a substation name (Example: AA1WA1) to IEC 61850 Uploader. 2. Create second instance of an IEC 61850 OPC Server and upload different SCD file with the same subnetwork name used in step1. Important 800xAIEC-CN-5020-0001	The user must ensure that the Substation name is unique in a system. For more information, refer to caution in page 66 in *System 800xA IEC 61850 Configuration (9ARD171387-510)*.
Uploader fails to upload SCD file in the Standard tab. Important 800xAIEC-CN-5020-0004	This problem has been corrected.
Message showing "Number of Obsolete objects:" is seen in IEC 61850 Uploader aspect logger. When the second upload is done or an upload of the second OPC Server is done, a message is shown in aspect logger saying some objects are obsolete. 800xAIEC-CN-5020-0006	This problem has been corrected.

Table 107. Configuration Issues (Continued)

Issue	Correction or Fix
Alarms and Events for MMXU are not appearing in the alarm and event list of PPA. All alarms and events except for MMXU are appearing in the alarm & event list of PPA. 800xAIEC-CN-5020-0007	This problem has been corrected.
IED name does not appear in the alarm and event list when IED loses communication with IEC 61850 OPC Server. When the IED loses communication with the IEC 61850 OPC Server, an alarm appears in the alarm list saying "Device Connection Lost". This alarm does not clearly indicate which IED's device connection is lost. In this scenario the IED Name column of the Alarm list will be empty. 800xAIEC-CN-5020-0008	This problem has been corrected.
IEC 61850 Colors aspect not present in "Workplace Structure/Web System Workplace". 800xAIEC-CN-5020-0009	This problem has been corrected.

Table 108. Operational Issues

Issue	Correction or Fix
CET tool: Disturbance recording from IED not available through MMS. In the ABB IEC 61850 OPC server CET tool, disturbance records from IED cannot be uploaded to local directory through IEC 61850 MMS protocol (disturbance recording setting via FTP is false). Important 800xAIEC-OL-5020-001	Use FTP to upload disturbance records from IED as follows: 1. Go to IED Object properties 2. Under Disturbance Recording section, set option 'Disturbance Recorder Enabled' to true. 3. Set 'Disturbance recorded remote directory' option to '\drec\' 4. Under Disturbance recording via FTP section provide Username and Password as 'Administrator' 5. Set option 'Disturbance Recordings read via FTP' to true. 6. Other parameters like polling time and local directory can be set as required 6. Update and reload configuration

Table 109. Instructional Manual Changes

Issue	Correction or Fix
Industrial IT, 800xA - System, 800xA for IEC 61850, Engineering and Configuration (9ARD171387-510). 800xAIEC-MC-5020-0001	"fpeMeasHandlerGen" is deleted in the new version. Page No 164, Table 9, Serial No. 20 In Appendix E, in the deployment Sequence for Faceplate of Generator object, the faceplate element "fpeMeasHandlerGen" does not exist. This should be ignored.

Table 109. Instructional Manual Changes

Issue	Correction or Fix
Industrial IT, 800xA - System, 800xA for IEC 61850, Engineering and Configuration (9ARD171387-510) 800xAIEC-MC-5020-0002	"geMeasurementTR" is deleted in the new version. Page No 163, Table 10, Serial No. 16. In Appendix E, in the deployment Sequence for Faceplate of Transformer object, the faceplate element "geMeasurementTR" does not exist. This should be ignored.

Section 12 Device Management FOUNDATION Fieldbus

This section details the Fixed Problems for the Device Management FOUNDATION Fieldbus that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 110, Table 111and Table 112 lists the Administration, Configurational and Operational issues that have been corrected in Device Management FOUNDATION Fieldbus for 800xA 5.1 Revision E.

Table 110. Administration Issues

Issue	Correction or Fix
Backup/Restore a System via Remote Desktop Session Fails Backup/Restore a system via a Remote Desktop session will fail. HSE Subnet configuration data will not be accessible if a backup is done via Remote Desktop session. 800xDMF-AD-5000-017	This problem has been corrected. Note: This issue is also corrected in 800xA System Version 5.1 Rev D RU5

Table 111. Configurational Issues

Issue	Correction or Fix
After importing the SAMSON 373x device type, the check of FF library will not finish successfully and a following upload of the FF library will fail. 800xDMF-CN-5100-022	This problem has been corrected. Note: This issue is also corrected in 800xA System Version 5.1 Rev D RU5.
UTF-8 coded device specific strings from DD / EDD are not supported. The strings are shown with an additional special characters 'Å°'. 800xADMF-CN-5131-001	This problem has been corrected. Note: This issue is also corrected in 800xA System Version 5.1 Rev D RU5.
The 'Enter matrix' method in the Transducer block TR8007 in the H1 device Micromotion 2700 revision 07 stops execution with an error. 800xADMF-CN-5131-002	This problem has been corrected. Note: This issue is also corrected in 800xA System Version 5.1 Rev D RU5.
Version strings from read H1 devices may be displayed in a hexadecimal format. 800xADMF-CN-5131-005	This problem has been corrected. Note: This issue is also corrected in 800xA System Version 5.1 Rev D RU5.

Table 112. Operational Issues

Issue	Correction or Fix
OPC DA service for a HSE subnet may stay in undefined state after restore or restart. 800xADMF-OL-5131-003	This problem has been corrected. Note: This issue is also corrected in 800xA System Version 5.1 Rev D RU5.

Fixed in 800xA 5.1 Revision D

Table 113 and Table 114 lists the Configurational and Operational issues that have been corrected in Device Management FOUNDATION Fieldbus for 800xA 5.1 Revision D.

Table 113. Configurational Issues

Issue	Correction or Fix
Wrong DD is used for blocks After installation of a new device type, it may happen that in the block properties dialog, • certain values of drop down list boxes are indicated as invalid, • values are rejected during download by the device, • values of drop down list boxes lists the Installation, Administration, Configuration, and Operation issues that have been corrected in Device Management FOUNDATION Fieldbus for 800xA 5.1 FP 3. not matching the device type since the wrong DD is used for the blocks. 800xADMF-CN-5120-014	This problem has been corrected.

Table 114. Operational Issues

Issue	Correction or Fix
In seldom cases communication faults in the OPC server FF HSE part may occur. 800xADMF-OL-5130-002	This problem has been corrected.
The OPC servers FF may crash in the HSE stack 800xADMF-OL-5102-005	This problem has been corrected.

Fixed in 800xA 5.1 Revision C

Table 116 lists the Operational issues that have been corrected in Device Management FOUNDATION Fieldbus for 800xA 5.1 Revision C.

Table 115. Operational Issues

Issue	Correction or Fix
Repeated crash of OPC server The FF OPC servers crash repeatedly, with irregular time distances. 800xADMF-OL-5101-011	This problem has been corrected.
Out-of-memory crash of OPC server. 800xADMF-OL-5101-013	This problem has been corrected.
OPC trace tool cannot connect to OPC server. 800xADMF-OL-5101-014	This problem has been corrected.

Table 115. Operational Issues (Continued)

Issue	Correction or Fix
No OPC data after reboot - Failover to non-functional partner. 800xADMF-OL-5101-015	This problem has been corrected.
OPC server locks up after download. 800xADMF-OL-5101-017	This problem has been corrected.

Fixed in 800xA 5.1 Revision B

Table 116 and Table 117 lists the Installation and Configuration issues that have been corrected in Device Management FOUNDATION Fieldbus for 800xA 5.1 Revision B.

Table 116. Installation Issues

Issue	Correction or Fix
Procedure for updating from 800xA 5.0 to 800xA 5.1 and 800xA 4.1 to 800xA 5.1. This procedure avoids download errors for H1 devices during upgrade. Important 800xADMF-IN-5101-003	This problem has been corrected.

Table 117. Configuration Issues

Issue	Correction or Fix
Fieldbus Builder FF crashes during check after deleting the last Client/Server signal so that there is no more Client/Server signal left. Important 800xADMF-CN-5101-005	This problem has been corrected.

Fixed in 800xA 5.1 Revision A

Table 118, Table 119, and Table 120 lists the Installation, Configuration, and Miscellaneous issues that have been corrected in Device Management FOUNDATION Fieldbus for 800xA 5.1 Revision A.

Table 118. Installation Issues

Issue	Correction or Fix
CI860 does not support Online Upgrade in 800xA 5.1 if variables are assigned to UnitStatus. Important 800xACON-IN-5100-003	For more information, refer to *Appendix B Control Builder M Compatibility Issues (800xA 5.0 SP2 to 800xA 5.1 Compatibility Issues & 800xA 4.1 to 800xA 5.1 Compatibility Issues)*, in *System 800xA, Upgrade (3BSE036342*).*

Table 119. Configuration Issues

Issue	Correction or Fix
Function block with Pin name "Error Dict string not found" Important 800xDMF-CN-5100-010	This problem has been corrected.
Removing 'Backup Link Maser' flag requires manually reboot of device. Important 800xDMF-CN-5100-016	This problem has been corrected.
After deleting or moving signals under special conditions it might happen that other signal connections are getting lost after downloading the changes. Important 800xADMF-CN-5101-004	This problem has been corrected.

Table 120. Miscellaneous Issues

Issue	Correction or Fix
The Device Management FOUNDATION Fieldbus online help is out of date and inaccurate in the Section: Schedule Editor. Important 800xDMF-OL-5100-001	This problem has been corrected.

Fixed in 800xA 5.1

Table 121, Table 122, Table 123, Table 124, and Table 125 lists the Installation, Administration, Configuration, Operation and Instruction Manual Changes issues that have been corrected in Device Management FOUNDATION Fieldbus for 800xA 5.1.

Table 121. Installation Issues

Issue	Correction or Fix
Setting for FFDSD logon user must be performed during installation The setting in the FF configure tool that comes up only once during the installation must be performed (see screenshot below). This can be done also together with setting of the IP Address (General Settings) and configuring the OPC Resource IDs (OPC Server FF). 800xDMF-IN-5020-007	This problem has been corrected.

Table 122. Administration Issues

Issue	Correction or Fix
Shutdown of OPC Server FF Takes a Long Time. It takes longer to shut down the OPC Server FF from Plant Explorer, when the HSE Service Provider for the OpcDA_Connector Service is in status 'initialize'. 800xDMF-AD-5000-008	This problem has been corrected.

Table 122. Administration Issues (Continued)

Issue	Correction or Fix
Backup/Restore a System via Remote Desktop Session Fails Backup/Restore a system via a Remote Desktop session will fail. HSE Subnet configuration data will not be accessible if a backup is done via Remote Desktop session. 800xDMF-AD-5000-017	This problem has been corrected.
Warning about port in use during Upgrade from System Version 4.1 to System Version 5.0. While upgrading from System Version 4.1 to System Version 5.0 a warning may occur that a port is being used by another process. The warning offers the possibilities to retry or to go ahead. If you disable the process which blocks the port and afterwards press *Retry*, the upgrade process will not be successful. 800xDMF-AD-5000-020	This problem has been corrected.

Table 122. Administration Issues (Continued)

Issue	Correction or Fix
Missing FF Alarms in Alarm List Case 1: A high basic load for cyclic communication (publisher/subscriber) may cause missing FF alarms in Plant Explorer's alarm list. Case 2: After Upgrade from System Version 3.x or System Version 4.x the alarm tab in a function block parameter dialog may remain empty. This will prevent use of alarms and events in System Version 5.0. This may happen if for System Version 5.0 another installation directory was chosen then in the previous version. 800xDMF-AD-5000-021	This problem has been corrected.
Faulty indication of the synchronization status of FF libraries for the HSE Subnet. In some rare cases the indication of the Library update state (traffic light) in the FF Upload aspect of the HSE subnet may be wrong. 800xDMF-AD-5020-001	This problem has been corrected.
No data were received from a connectivity server In some rare cases it has been observed that the OPC server does not start after a restart of the node. This happens if the Windows Management Instrumentation Service (WMI Service) is not started. 800xDMF-AD-5020-002	This problem has been corrected.

Table 122. Administration Issues (Continued)

Issue	Correction or Fix
FFDataStorageAndDistribution service failure. During shutdown of 2 aspect servers in a 2oo3 system the FFDataStorageAndDistribution service from the 3rd server go nomic into error state. After restart of the two aspect servers their FFDataStorage services comes up in standby state even though the service in the 3rd aspect server is in error. Important 800xDMF-AD-5020-005	This problem has been corrected.

Table 123. Configuration Issues

Issue	Correction or Fix
Download errors neither stored in the Audit trail nor in the Event log. Download errors (e.g. parameter check error) are not stored in any log file. 800xDMF-CN-5020-003	This problem has been corrected.
No Load Arrow after change in FBBFF. The CI860 has no download indication. On changes that affect the CI860 the user has to take care that the CI860 module is loaded from Control Builder. 800xDMF-CN-5020-004	This problem has been corrected.

Table 123. Configuration Issues (Continued)

Issue	Correction or Fix
Deploying a new HSE subnet may fail. Deploying a new HSE subnet in Engineering Environment that was never uploaded may fail. 800xDMF-CN-5010-001	This problem has been corrected.
Update to 5.0 SP2 will not automatically increase the possible number of signal groups in existing projects. With the old multicast base address 224.0.128.1 (version < 5.0 SP1) only the first 32 multicast addresses, i.e. signal groups should be used to avoid a situation where all LDs are receiving the traffic that is intended for only a single LD. With the new multicast base address 224.0.238.1 62 multicast addresses, i.e. signal groups can be used. Important 800xDMF-CN-5010-004	This problem has been corrected.
Publisher/subscriber communication is blocked after multicast address change. After changing the multicast address (e.g. from 224.0.128.1 to the new address 224.0.238.1) the publisher/subscriber communication is blocked by the Linking Device. 800xDMF-CN-5010-009	This problem has been corrected.

Table 123. Configuration Issues (Continued)

Issue	Correction or Fix
Restrictions on Limiting the Polled Range of H1 Bus Addresses. If a configuration limits the polled range of H1 bus addresses in such a manner that addresses of physically existing devices lie in the unpolled range the functions for linking device initialization and address assignment, or writing H1 port address assignment, will fail. 800xDMF-CN-5000-001	This problem has been corrected.
Alarm Parameters of Resource Block cannot be Modified in User-created Parameter Input Dialogs. The values of the alarm parameters MAX_NOTIFY and LIM_NOTIFY in the Resource Block cannot be modified in parameter input dialogs created with the dialog editor. 800xDMF-CN-5000-002	This problem has been corrected.
Switching Fieldbus Builder FF to Commissioning Mode in Remote Desktop Session may Interrupt FF Communication on that Node. Switching Fieldbus Builder FF to commissioning mode in a Remote Desktop session on a server node, where Fieldbus Builder FF or OPC Server FF is running, may interrupt the FF communication on that node. In the case of a Connectivity Server FF, communication for the complete HSE Subnet will be affected. 800xDMF-CN-5000-018	This problem has been corrected.

Table 123. Configuration Issues (Continued)

Issue	Correction or Fix
Incremental Download After Modifying an HSE VCR on the Linking Device will Interrupt Cyclic Communication to all H1 Links. If the user selects to perform an incremental download after having modified an HSE VCR on the linking device, cyclic HSE communication to all links of that linking device will temporarily be interrupted during download. In this case there is no indication before the download, that communication will be interrupted. Note: Moving signal sources or sinks to another H1 Link will modify HSE VCRs. Important 800xDMF-CN-5000-019	This problem has been corrected.
Wrong HSE Subnet Interface IP Address for OPC Server FF. For HSE subnets created with a version of ABB Industrial IT 800xA System prior to System Version 4.1, it is necessary to verify the IP address for the HSE Subnet Interface of an OPC Server FF and enter correct data at the OPCServer FF object in Fieldbus Builder FF. 800xDMF-CN-4100-001	This problem has been corrected.
Bitstring data cannot be used in user defined dialogs Parameters of type Bitstring cannot be used for user defined dialogs, e.g. status of the PID block in Flowmeter FSM4000. Important 800xDMF-CN-4100-003	This problem has been corrected.

Table 123. Configuration Issues (Continued)

Issue	Correction or Fix
Use of slashes in Tag Names. Slashes are not allowed in tag names as this might cause problems with OPC Names, where the slash is used as separator. 800xDMF-CN-4100-004	This problem has been corrected.
Restrictions on FF Application Cycle Times. Cycle time values shorter than 1 ms and longer than 134217 seconds cause problems. 800xDMF-CN-4100-006	This problem has been corrected.
Change Start Time in the Schedule Editor. Within the Schedule Editor, value and unit of start time can be modified during configuration via the block properties. For internal calculation a time unit of 1/32 ms = 31,25 is used. Because of the rounding process based on this value, changing and back-changing of the time unit may lead to a change of the original value. 800xDMF-CN-4100-008	This problem has been corrected.
Stored Time Settings Deviate from Values Entered at Schedule Properties User Interface. Fieldbus Builder FF does not store the exact values entered for *Typ. C/S PDU Delay*, *Typ. C/S PDU Duration* or *Max. C/S PDU Duration* at the Schedule Properties user interface. 800xDMF-CN-4100-010	For more information, refer to *System 800xA Device Management FOUNDATION Fieldbus Configuration (3BDD012902*)*, in table 71 with the sentence "This parameter can only be increased by multiples of 31.25." in each row for Description.

Table 123. Configuration Issues (Continued)

Issue	Correction or Fix
CI860 is Not Automatically Notified on Certain Configuration Changes. The CI860 is not automatically notified on the following changes: • Upload of units or ranges from a real device. • Modification of the cycle time of an FF Application. Therefore Control Builder M will fetch a CI860 configuration not containing these changes. Important 800xDMF-CN-4100-011	This problem has been corrected.
Upload of HSE Subnet required after initial configuration of OPC Server FF. Switching to commissioning mode in Fieldbus Builder FF directly after initial configuration of an OPC Server FF will not start the OPC Server FF. In the tree view of the Fieldbus Builder FF the connection state of the OPC Server states 'No Connection'. 800xDMF-CN-4100-014	This problem has been corrected.
Permanent Version Error in OPC Server FF after Adding/Deleting H1 Link. Adding or deleting an H1 link may trigger a permanent version error in the OPC Server FF. 800xDMF-CN-4100-024	This problem has been corrected.

Table 123. Configuration Issues (Continued)

Issue	Correction or Fix
Deletion of an HSE Subnet in the Plant Explorer Control Structure. After creating an HSE Subnet via *New Object* in the Plant Explorer it is sometimes not possible to delete this HSE Subnet in the Plant Explorer. 800xDMF-CN-4100-026	This problem has been corrected.
Using System on Computers with Different Windows Locale. After importing an afw-file (containing FF data) that was created on a system with a different Windows locale than the currently selected, discrepancies between the texts displayed for corresponding object names in Fieldbus Builder FF and in Plant Explorer, may be observed. 800xDMF-CN-4100-029	This problem has been corrected.

Table 123. Configuration Issues (Continued)

Issue	Correction or Fix
Move Function Blocks in the Schedule Editor. The user moves a function block and all following function blocks in the schedule. Depending on the configured connections in the accompanying FF Applications it may occur that the selected block is moved with the double value of time. Important 800xDMF-CN-4100-009	This problem has been corrected.
Error During Upload of HSE Subnet A device with an enabled Asset Monitor aspect has been deleted in the Fieldbus Builder FF configuration. An error message indicates that Asset Monitor aspect deletion failed during the FF Upload operation. 800xDMF-CN-4100-027	This problem has been corrected in System Version 5.1 by AO.

Table 124. Operational Issues

Issue	Correction or Fix
CI860 load displayed in Fieldbus Builder FF may differ from load displayed on CI860 Web Interface. The CI860 load displayed in the Fieldbus Builder FF is an estimation derived from statistical data from typical load scenarios. Greater deviations expected if several sinks used for one signal, or if more than 62 signal groups are used. Thereby "named groups" are added to the automatic assigned signal groups. Important 800xDMF-OL-5000-024	This problem has been corrected.
The shown part of the Fieldbus Builder FF tree doesn't fit to the scroll position. If you scroll down in the left window part of Fieldbus Builder FF the shown part of the tree doesn't fit to the scroll position. The top of the tree is shown. 800xDMF-OL-5010-003	If you release the left mouse button, tree position and slider position match.

Table 125. Instruction Manual Changes

Issue	Correction or Fix
System 800xA 5.0 Device Management FOUNDATION Fieldbus Configuration (3BDD012902R5021) 800xDMF-MC-5000-005	By change of software no client/server conflict will appear, when a node with an open Fieldbus Builder FF project (HSE Subnet or FF Libraries) is disconnected from the Aspect Server for more than 30 seconds. Thereby no additional hint is necessary in the manual.

Table 125. Instruction Manual Changes (Continued)

Issue	Correction or Fix
System 800xA 5.0 Device Management FOUNDATION Fieldbus Configuration (3BDD012902R5021) Important 800xDMF-MC-5000-015	Following information is added: After changing the signal-channel-mapping, navigate to HSE Subnet instance object > FF Signals tab and • press the Set HSE Signal Groups button for automatic assignment of FF signals to signal groups or • manually adapt the assignment of FF signals to signal groups.
System 800xA 5.0 Device Management FOUNDATION Fieldbus Configuration (3BDD012902R5021) 800xDMF-MC-5000-023	Wording of the caution text corrected on page 272: Do not change the ALERT_KEY, ACK_OPTION or Unit parameter in commissioning mode. After an accidental change of these parameters in commissioning mode, upload the parameters, check the project, and perform a download to the OPC Server FF.

Section 13 Device Management PROFIBUS and HART

This section details the Fixed Problems for Device Management PROFIBUS and HART that have been fixed in the system at the time of release.

> **i** HART Multiplexer solution is a fully released functionality which was a managed release for 800xA System Version 5.1.

Fixed in 800xA 5.1 Revision E

Table 126, and Table 126 lists the Configuration, Installation and Operation issues that have been corrected in Device Management PROFIBUS and HART for 800xA 5.1 Revision E.

Table 126. Configuration Issues

Issue	Correction or Fix
An Upload executed in the Subscriber System will fail when: a) The selected structure / object in the Provider System has Device Management PROFIBUS/HART aspects AND b) Plant Explorer is NOT open in the Provider System 800xDPH-CN-5100-023	This problem has been corrected.

Table 126. Configuration Issues (Continued)

Issue	Correction or Fix
Following issues may occur on the system that have instances of 'PDP22-FBP with UMC100' Hardware Type of BMI_FBP_UMC100_HwLib library while updating or upgrading from System Version 800xA 5.1 Feature Packs. a. The AC 800M Status Monitoring System Extension load fail with Object Hook error for Fieldbus Management aspect. b. The Control Project upgrade fail with Object Hook error for Fieldbus Management aspect. 800xDPH-CN-5100-033	This problem has been corrected.
S800 IO DTM configuration cannot be saved after modification in composer field. For example, if user modify "OSP control" of a digital output channel from "set OSP value" to "keep current value", while reopening the DTM configuration, "OSP control" of that channel is still "set OSP value". 800xDPH-CN-5100-043	This issue has been fixed for S800 IO DTMs.

Table 126. Configuration Issues (Continued)

Issue	Correction or Fix
Delete the first S800 IO module will destroy channel parameter set in Composer Melody For Example: Three modules created with Composer Melody: Slot 1: DI810 Slot 2: DO810 Slot 3: AI835A Delete the first module DI810 will destroy the channel parameter set of subsequent modules. 800xDPH-CN-5100-044	This problem has been corrected.
DTM UI to enable HCIR is not available for CI840 Module. 800xDPH-CN-5100-045	This problem has been corrected. HCIR UI available for CI840.
AI830 and AI893 DTM Process Value and Bar Graph are not displayed if the signal range selected other than "0...400 ohms". 800xDPH-CN-5100-027	This problem has been corrected.

Table 126. Configuration Issues (Continued)

Issue	Correction or Fix
Installing some Device Types in System 800xA 5.x versions through Device Library Wizard, may result in "The 'DEP_Compatible' attribute is not declared" error message and the device type installation fails. The problem is caused by an additional security feature (Data Execution Prevention (DEP)) supported by the Device Type Manager (DTM) included in the Object Type. 800xADLW-CN-5100-010	This problem has been corrected.
The Modulebus and CI854 module instances are counted for Device Management PH license count. 800xADPH-CN-5100-003	This problem has been corrected.
When user try to create a instance for device object with specific DTM from a system node on which required DTM is not installed the operation fails with error message "Failed to Create Object! Catastrophic failure". 800xDPH-CN-5100-038	In such case user will get more meaningful error message "Failed to Create Object! E_AFW_DTM_MISSING (0x8abb4601) Object creation!!!" The required DTM is either missing or not installed properly in this system.

Table 127. Operational Issues

Issue	Correction or Fix
Some of the Asset Monitors of HART Devices connected under Module Bus and CI840 with S800 modules report bad status with alarm as "HART_RESPONSE_BYTE1 Input Record quality: badCommFailure" in one AO Cycle and the same HART Device Asset Monitors report Good status in the next AO cycle. For example: Devices with Good status in first cycle will report Bad status in next cycle and vice versa. This is a random behavior across the HART Devices connected under Module bus and CI840 with S800 modules. 800xADPH-OL-5100-022 800xADPH-OL-5100-020	This problem has been corrected. Asset Monitors report good status for devices connected under Module bus and CI840 with S800 IO Modules Only exception is during Asset Optimization cycle, if DTM is open and cyclic update is selected for DTM, same device or any other device from same IO module may report bad status. Incase DTM is closed, bad alarm will get reset during subsequent AO cycle.
Communication problem is observed when some HART Device DTMs such as Endress+Hausser Liquiline M Cci / CM42, Liquiline M pH-ORP / CM42 are connected to S800 IO Modules 800xDPH-OL-5100-040	This problem has been corrected.
Configure OPC Server hangs when PH OPC server is already in Service state. 800xADPH-OL-5100-0046	This problem has been corrected.

Table 127. Operational Issues

Issue	Correction or Fix
S900 - IO Diagnosis error in running phase observed with Composer Melody. This issue occurs when 16 modules of type AI930 (AI4H A) are used within one S900 I/O Terminal Unit. 800xDPH-OL-5100-042	This problem has been corrected.

Fixed in 800xA 5.1 Revision D

Table 128 and Table 129 lists the Configuration, Operation issues that have been corrected in Device Management PROFIBUS and HART for 800xA 5.1 Revision D.

Table 128. Configuration Issues

Issue	Correction or Fix
Creating instance of Modules DO930, AI920 and DI920 below S900 Module instance fails when selected Slot/Position for these module instances is less than the last Slot/Position of any S900 module instance already created. 800xDPH-CN-5100-028	This problem has been corrected.
Third party DTMs cannot be opened if entity is not reserved by the user. 800xDPH-CN-5100-015	This problem has been corrected. DTM UIs can be opened by the user, who is part of Industrial IT User group only or has not reserved the entity as well. This behavior might change from DTM to DTM based on the user role implementation in DTM. **Note**: It is recommended that the Plant Explorer Workplace is closed after the DTM is accessed with Observer user role.

Table 128. Configuration Issues (Continued)

Issue	Correction or Fix
The Aspect Directory consumes high memory when the System has large number of PROFIBUS and HART device instances with "ABB Instrumentation DTM" and "Generic PROFIBUS DTM". Due to the high memory usage by Aspect Directory, the below problems may occur: • Aspect Server redundancy switch-over may fail. • Aspect Directory may fail to synchronize. 800xDPH-CN-5100-024	This problem has been corrected. The Device Management aspect data will be compressed before saving to the Aspect Directory. Refer *System 800xA 5.1 Upgrade (3BSE036342*)* to run the DMAspectDataCompression tool.
The Basic HART DTM should support HART Read Only mode, when instances are created below AI880 IO Module. 800xDPH-CN-5100-016	This problem has been corrected. HART Read Only mode support is enabled in Basic HART DTM.
The Asset Monitor for some HART devices connected over CI840/CI801 remote IOs report Bad status with alarm as "HART_RESPONSE_BYTE1 Input Record quality: badCommFailure" during Asset Optimization cycle. But returns to normal during next Asset Optimization cycle. This happens randomly for few Asset Monitors in every Asset Optimization cycle. 800xDPH-CN-5100-019	This problem has been corrected. No bad alarm reported during Asset Optimization update cycle. Only exception is when device DTM is open and cyclic update is selected in DTM during Asset Optimization cycle, same device or any other device from same IO module may report bad. In case DTM is closed, bad alarm will get resettled during subsequent AO cycle.

Table 128. Configuration Issues (Continued)

Issue	Correction or Fix
The tag (DTM Tag and 4 Segment tags) assignment to PF HD2 instances while creating several PF HD2 instances using Bulk Data Manager fails except for first PF HD2 instance. Other PF HD2 instances are updated with default tags. 800xDPH-CN-5100-007	This problem has been corrected.
When property values of 'Property Management' aspect on PF HD2 instance are modified using Bulk Data Manager, the modified values are not retained by 'Property Management' aspect, if user closes and reopens the Plant Explorer Workplace and access the Property Management aspect without performing any DTM related operations such as accessing PF HD2 DTM or right click on PF HD2 instance in Control Structure. 800xDPH-CN-5100-008	This problem has been corrected. Property Management aspect now retains modified value regardless of any DTM operations.
The copy paste of PF HD2 instance on same PF Port in Control Structure will create two new PF HD2 nodes instead of one in FDS Topology of FieldConnex DTM. 800xDPH-CN-5100-009	This problem has been corrected.
Generic PROFIBUS DTM fails to open GUI or gets crashed after creating or importing custom logic application for more than one UMC100-FBP modules configured for a PDQ22-FBP PROFIBUS DP device. 800xDPH-CN-5100-022	This problem has been corrected. **Note**: The PDQ22-FBP device type instances which has the problem must be deleted and created again.

Table 129. Operational Issues

Issue	Correction or Fix
Property values from Control Connection aspect are not updated in Bulk Data Manager (BDM) worksheet when HART Device instance is dragged and dropped in BDM worksheet. 800xADPH-OL-5100-017	This problem has been corrected. **Note**: When Asset Optimization update cycle is ongoing, do not perform BDM operation to read Control Connection aspect item values for HART device. If the BDM operation overlaps with the Asset Optimization update cycle, then there is a possibility of the BDM worksheet not getting updated with the item values. In order to resolve this perform the BDM operation again for HART device. To list the Control Connection aspect item values in BDM worksheet you can: - Drag and drop each single device into the BDM worksheet, or - Drag and drop an IO module into the BDM worksheet to get list of values for all devices under it. **Note**: A maximum of 12 items per device is recommended for reading. Modify the following registry keys value only on the Engineering Client nodes, which are used for BDM operation. - AddItem_Timeout = 120 - Asynch_RW_Timeout = 60 - Synch_RW_Timeout = 60 For 32-bit OS registry keys are found in the below path: *HKEY_LOCAL_MACHINE\SOFTWARE\ABB\AFW\SystemModules\OPCToolkit\1.0-0\private\OPCHandler* For 64-bit OS registry keys are found in the below path: *HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\ABB\AFW\SystemModules\OPCToolkit\1.0-0\private\OPCHandler*

Table 129. Operational Issues (Continued)

Issue	Correction or Fix
Some HART Device Asset Monitors report bad status with alarm as "HART_RESPONSE_BYTE1 Input Record quality: badCommFailure" and/or failure to complete all subsequent Asset Optimization cycles. This issue was observed after communication disturbance on fieldbus network while Asset Optimization cycle scan was in progress. The communication disturbances are: IO module disturbance, Controller Network cable disturbance and communication disturbance while controller hot download etc. 800xADPH-OL-5100-020	The issue is fixed for HART devices configured under ModuleBus IO. Only exception is when device DTM is open and cyclic update is selected in DTM during Asset Optimization cycle, same device or any other device from same IO module may report bad status. In case DTM is closed, bad alarm will get resettled during subsequent AO cycle.

Fixed in 800xA 5.1 Revision B

Table 130 and Table 131 lists the Configuration and Operation issues that have been corrected in Device Management PROFIBUS and HART for 800xA 5.1 Revision B.

Generic PROFIBUS DTM

Table 130. Configuration Issues for Generic PROFIBUS DTM

Issue	Correction or Fix
Generic Profibus DTM fails to read the parameters with following error msg "Error on Parameter read: The structure doesn't conform to ABBParameterAccessSchema.xml". 800xADPH-CN-5110-001	This problem has been corrected.

Table 131. Operational Issues

Issue	Correction or Fix
While working with multiple (4 to 6) DTMs (Device Manager Types) simultaneously on an 800xA system node, the performance of DTMs may degrade in online communication mode. Further opening of online DTM windows may result in unresponsive 800xA workplace, this may trigger the workplace watchdog timer. In case of unresponsive 800xA workplace, it may not be possible to continue working with DTMs or Workplace application. If user selects the 'Restart Workplace' option from Workplace watchdog, then there is a possibility of loss of synchronization between Device Management server and Workplace application. This prevents any further DTM operation and requires a node restart. 800xADPH-OL-5023-007	Performance while working with multiple online DTM windows is improved. 1) Now it is possible to work with up to 4-6 online DTMs simultaneously from an 800xA node. Also the time taken for DTM to upload or download parameters is reduced by approximately 50%. 2) A new watchdog component in Device Management is introduced, which ensures that synchronization between Device Management and Workplace application is not lost. Therefore, restarting the node is not required when 'Restart Workplace' option is selected in Workplace watchdog. General recommendations while working with 4-6 online DTMs simultaneously: 1) While selecting 'Restart Workplace' during Workplace watchdog, ensure that the Control Builder M is closed on the same node. 2) If the Workplace application stops responding and the user restarts the Workplace application, DTMs which run as a separate process outside the Device Management process, such as ABB Instruments DTM needs to be closed manually. 3) The DTMs from different vendors have different online communication characteristics which can vary depending on device types. Therefore, it is not possible to generalize on the number of DTMs that can work simultaneously on an 800xA node without having a DTM with degraded performance. However, it is recommended to work with up to maximum 4 DTMs in parallel from an 800xA node. **Issue Description is Continued....**

Table 131. Operational Issues

Issue	Correction or Fix
	Further opening of DTMs may degrade the performance of DTM. In any case, the user should not open, • More than 6 DTMs per I/O station simultaneously. • More than 6 DTMs per 800xA node from multiple I/O stations. 4) The simultaneous Online DTM performance for HART Device DTMs may degrade in below cases: • If DTMs are opened in richly configured nodes such as combined Aspect, Connectivity and Asset Optimization servers instead of clients. • If HART devices are connected using HART Over PROFIBUS topology (compared to HART devices directly connected to Modulebus of controller) 5) Few DTMs refresh online parameters continuously, which causes communication load. Hence, DTM should be set to refresh data periodically (either every 30 seconds or higher). **Issue Description is Continued....**
	The figure shown below is an example of parameters for Endress & Hauser DTMs that should be set to reduce communication load. In actual, DTM view may be different from the figure shown below and may depend on DTM version used.

Fixed in 800xA 5.1 Revision A

Table 132, Table 133, and Table 134 lists the Installation, Configuration, and Operation issues that have been corrected in Device Management PROFIBUS and HART for 800xA 5.1 Revision A.

Table 132. Installation Issues

Issue	Correction or Fix
After installation of S900 DTM, the DTM entry in Windows Programs and Features list is available to the user who installed the DTM. For any other user the DTM is not shown in Windows Programs and Features list. 800xADPH-IN-5100-002	This problem has been corrected. S900 DTM's entry in Windows Programs and Features can be seen by other users too. The S900 DTMs are also available in DTM catalogue for other users who have not installed S900 DTM.

Table 133. Configuration Issues

Issue	Correction or Fix
Copy and Paste not possible from Process Portal, if Device Management PROFIBUS/HART is installed. The Copy and Paste function of a hardware module (CI854 as example) is not possible from Plant Explorer if Device Management PROFIBUS or HART is installed. 800xDPH-CN-5020-004	This problem has been corrected. Copy and paste of CI854 Object is possible from one controller to another. The update of IP value of Controller in CI854 DTM will happen when Fieldbus branch is set online or Configure OPC Server is Performed first time.

Table 134. Operational Issues

Issue	Correction or Fix
DTM functionality for PIR7000 device from Polytron does not work with S800 IO Modules, whereas it works with S900 Modules. In general this problem may affect any HART device type having Manufacturer Identification number more than 0x4F. Important 800xADPH-OL-5023-002	This problem has been corrected. It is possible to work with PIR7000 Device with S800 Modules.
HART devices having Manufacturer ID greater than 0x4F such as Metso ND9000 when connected to S900 I/O Modules, does not provide a 'GOOD' quality data in Control Connection aspect. 800xADPH-OL-5023-006	This problem has been corrected. It is possible to work with such devices with S900 IO Modules.
Device Library Wizard 5.1 will not be launched when System 800xA Device Management PROFIBUS & HART software is installed from DVD media. Important 800xADPH-OL-5023-003	This problem has been corrected. It is possible to install Device types using DLW even if Device Management PROFIBUS & HART components are directly installed from a DVD media.

Fixed in 800xA 5.1

Table 135, Table 136, Table 137, Table 138, Table 139, Table 140, Table 141, Table 142, and Table 143 lists the Installation, S900 DTM, Administration, Configuration, Operation, Generic HART DTM, S800 DTM, Instruction Manual Changes, and Miscellaneous issues that have been corrected in Device Management PROFIBUS and HART for 800xA 5.1.

Table 135. Installation Issues

Issue	Correction or Fix
It is not possible to call the HART Multiplexer from the Windows Start menu. The Windows Start menu for the "Service Account" user does not contain the call up entry for the HART Server, as described in the user manual. 800xDPH-IN-5000-003	For more information, refer to *System 800xA Device Management PROFIBUS and HART Configuration (3BDD011934*).*
Device Types installed via Device Library Wizard, which have a specific Device Type Manager (DTM), may require special Windows settings on the system node. If these settings have not been configured, it is not possible to open the DTMs from other system user accounts except 800xA service account. Important 800xDPH-IN-5000-004	For more information, refer to *System 800xA Device Management PROFIBUS and HART Configuration (3BDD011934*).*

S900 DTM

Table 136. Corrected S900 DTM Issues

Issue	Correction or Fix
During Update to System Version 5.0 SP2, an error window is displayed: "The InstallShield Engine (iKernel.exe) cannot be launched. No such Interface supported." 800xDPH-IN-5020-007	This problem has been corrected in this version. No error message is shown while upgrading to 800xA 5.1.
The S900 DTM displays other redundant PROFIBUS slave addresses than the Control Builder M project/Plant Explorers Control Structure. Important 800xDPH-CN-4100-002	This problem has been corrected.

Table 137. Administration Issues

Issue	Correction or Fix
"Application Error" message from the PROFIBUS/HART OPC server during upgrade. During upgrade to latest 800xA system version, an "Application Error" message window appears PROFIBUS/HART OPC server. This happens if the OPC server topology file is missing. Important 800xDPH-AD-5020-010	This problem has been corrected in this version. No message appears in while upgrading to 800xA 5.1.
Importing a large controller project leads to less virtual memory, if project contains device types with DTMs. Important 800xDPH-AD-5020-007	For more information, refer to *System 800xA Device Management PROFIBUS and HART Configuration (3BDD011934*)*.

Table 137. Administration Issues (Continued)

Issue	Correction or Fix
When restoring a system backup on a multi node configuration, files in folder c:\Engineer IT Data\Fieldbus Builder PH which have been saved during backup are restored on the Aspect Server but not distributed to the other nodes. 800xADPH-AD-5020-013	For more information, refer to *System 800xA System Upgrade (3BSE036342*).*

Table 138. Configuration Issues

Issue	Correction or Fix
National Language Support (NLS) is currently not available for specific aspects of Device Management PROFIBUS & HART. 800xDPH-CN-5000-007	For more information, refer to *System 800xA Device Management PROFIBUS and HART Configuration (3BDD011934*).*
PROFIBUS/HART OPC Server sometimes doesn't work with the recommended cycle times The cycle times which are documented in the System Configuration Guide are under some conditions not proper (e.g. redundant AO nodes, larger plant areas disturbed (controller or field devices)). 800xDPH-CN-5020-006	For more information, refer to *System 800xA Configuration (3BDS011222*).*
The Device Management PROFIBUS&HART aspect system does not support the Security Definition aspect. Even if the Security Definition aspect is placed and configured, configuration and tuning of device parameter may be possible. 800xDPH-CN-5010-001	This problem has been corrected.

Table 138. Configuration Issues (Continued)

Issue	Correction or Fix
It is mandatory to load the AC800M Connect system extension, if Device Management PROFIBUS & HART software shall be used in the system. If the AC800M Connect system extension is not loaded, the HART Device Integration Library - Basics system extension cannot be loaded to the system. IMPORTANT: If HART Multiplexer Connect software shall be used in the system only, the AC800M Connect system extension is required, too. 800xDPH-CN-5000-008	For more information, refer to *System 800xA Device Management PROFIBUS and HART Configuration (*3BDD011934**).*
Using the Bulk Data Manger for writing DTM parameter (via Property Management aspect) may not support all visible values. As a result the values are not updated in the DTM window.This problem is not related to ABB's Basic HART DTM. 800xDPH-CN-5000-009	For more information, refer to *System 800xA Device Management PROFIBUS and HART Configuration (3BDD011934*).*
When using 800xA Multi-Environment support, it is possible to assign HART device instances in the Engineering and Production environment to the same I/O channel, e.g. S800, S900 modules. As a result of the deploy operation two device instances are assigned to the same I/O channel. 800xDPH-CN-5000-036	For more information, refer to *System 800xA Engineering Engineering and Production Environments (3BSE045030*).*

Table 138. Configuration Issues (Continued)

Issue	Correction or Fix
Application Engineer cannot create instance of ABB Generic HART Transmitter. Users with Application Engineer role cannot create an instance of an ABB Generic HART Transmitter objecttype due to the 800xA security settings of this aspect. 800xDPH-CN-5020-001	For more information, refer to *System 800xA Configuration (3BDS011222*)*.
"Replace Unit" function in CBM blocks online functions during exchange of a device type in CBM via the "Replace Unit" function the slave address is changed to a default value. This blocks all online functions. 800xDPH-CN-5020-003	For more information, refer to *System 800xA Configuration (3BDS011222*)*.

Table 139. Operational Issues

Issue	Correction or Fix
If one user has reserved a Control Project a second user get the information *Data set locked by: Unknown* for some DTM types. This Information is displayed first after the second mouse click. After the first selection the second user doesn't get any information. 800xDPH-OL-5000-020	This problem has been corrected.

Generic HART DTM

Table 140. Generic HART DTM Issues

Issue	Correction or Fix
BASIC HART DTM together with Audit list does not give correct information to user. For example, if unit is changed from "C" to "F" then the audit list will show a message "Unit changed from 33 to 32". It seems that instead of showing string value it shows ENUM integer value. Important Customer Reported	This problem has been corrected in this version. Corrected to display actual strings to the user when parameter changed from the drop down list box when another user enters text.
When connected with S800 Remote IOs, a "Download aborted" message appears on download operation. The expectation is to receive finished download at the end of the download sequence. Important Customer Reported	This problem has been corrected.

S800 DTM

Table 141. S800 DTM Issues

Issue	Correction or Fix
Pulse count does not work on DP820. Important Customer Reported	This problem has been corrected.
Sometimes disable communications may fail with AI845/AO845 connected to HART devices. This may happen during redundancy switch over or when trying to go Offline with Online DTM still open.Important 800xADMP-OL-5020-103	This problem has been corrected in this version. Condition checking is added in observation control of all modules, to release communication when there is no connection.

Table 142. Instructional Manual Corrections

Issue	Correction or Fix
Instruction 3BDD011934R5021, Device Management, PROFIBUS/HART Configuration describes Fieldbus Management (Bulk). This aspect is not a released functionality. 800xADPH-MC-5020-001	Description of Aspect is removed from the documentation.

Table 143. Miscellaneous Issues

Issue	Correction or Fix
Bulk data operation via 800xA Bulk Data Manager is not possible in a one step configuration for HART device type objects. The HART device type objects are not allocated to a specific I/O channel, even if the channel is configured in the Bulk Data sheet. The HART device type object is placed to the I/O module only without channel assignment. 800xADPH-MS-5000-031	For more information, refer to *System 800xA Device Management PROFIBUS and HART Configuration (3BDD011934*)*.
In the Engineering Environment the DTM configuration data will not be automatically stored in the Aspect Directory, even if the DTM is closed. If DTM data are changed in Engineering environment, the configured device data will not be stored in the Aspect Directory. As a result the data will not be available after deploying the project to the production environment. Also deploy to Production environment does not work if the corresponding DTM was already loaded in Production environment. 800xADPH-MS-5000-033	For more information, refer to *System 800xA Engineering Engineering and Production Environments (3BSE045030*)*.

Section 14 Device Library Wizard

This section details the Fixed Problems for Device Library Wizard that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA Revision A

Table 144 lists the Installation issues that have been corrected in Device Library Wizard for 800xA 5.1 Revision A.

Table 144. Installation Issues

Issue	Correction or Fix
Device Library Wizard installation will fail if it is used only with Foundation Fieldbus and none of following products are installed: 1. Device Management PROFIBUS & HART 2. Asset Optimization 3. McAfee Important 800xADLW-IN-5100-001	This problem has been corrected. It is now possible to install Device Library Wizard independent of any other product listed in the Issue description.

Fixed in 800xA 5.1

Table 145 and Table 146 lists the Administration and Operation issues that have been corrected in Device Library Wizard for 800xA 5.1.

Table 145. Administration Issues

Issue	Correction or Fix
The Device Library Wizard user manual describes that Device Type Files will be automatically distributed and extracted to all system nodes where the Device Library Wizard Client software is installed (user manual, section 2, Getting Started). 800xADLW-AD-5020-001	For more information, refer to *System 800xA Device Management Device Library Wizard (2PAA102573*)*.

Table 146. Operational Issues

Issue	Correction or Fix
Device Types installed as new minor version to an already existing device type object cannot be identified as new minor version device type on object type level (FF) and instance level (FF, HART, PROFIBUS) in Plant Explorer Workplaces. 800xADLW-OL-5000-002	For more information, refer to *System 800xA Device Management Device Library Wizard (2PAA102573*)*.
ABB Instruments Device Types with specific ABB DTMs can be rejected by virus protection tools during installation process. 800xADLW-OL-5000-008	For more information, refer to *System 800xA Device Management Device Library Wizard (2PAA102573*)*.

Table 146. Operational Issues (Continued)

Issue	Correction or Fix
While installing the DTMs packaged with the Device Object Type(s), the DLW or DTM installation window may appear hanged. Important 800xADLW-OL-5020-001	For more information, refer to *System 800xA Device Management Device Library Wizard (2PAA102573*)*.
HART Device type's latest minor version are not listed in DLWs extract or Missing tab while upgrading from previous system version. This is not a problem with FF/PROFIBUS device types. Important 800xADLW-OL-5020-002	This problem has been corrected.
Two major version of Device Object type may be listed in DLWs extract or missing tab while upgrading from previous system version even if one of them is not in use Important 800xADLW-OL-5020-003	This problem has been corrected.
Some of object types might not be listed in DLWs extract or missing tab while upgrading from previous system version. This might be a problem with PROFIBUS/HART/FF. Important 800xADLW-OL-5020-004	This problem has been corrected.

Table 146. Operational Issues (Continued)

Issue	Correction or Fix
During the extraction process of Device types Zip or Exe file by Device Library Wizard, if extraction process is terminated for any reason (user cancels the operation or file is corrupted) then DLW shows wrongly that extraction process is completed successfully. 800xADLW-OL-5020-005	For more information, refer to *System 800xA Device Management Device Library Wizard (2PAA102573*)*.
During the DTM installation process by Device Library Wizard, if installation process is terminated for any reason then DLW shows wrongly that installation process is completed successfully even though DTM might not have installed successfully. 800xADLW-OL-5010-002	For more information, refer to *System 800xA Device Management Device Library Wizard (2PAA102573*)*.
Extend feature will result in complete installation of Device type. 800xADLW-OL-5100-001	For more information, refer to *System 800xA Device Management Device Library Wizard (2PAA102573*)*.

Section 15 Asset Optimization

This section details the Fixed Problems for Asset Optimization that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision D

Table 148 lists the Operation issues that have been corrected in Asset Optimization for 800xA 5.1 Revision D.

Table 147. Operational Issues

Issue	Correction or Fix
The following error messages are logged in the Operator Messages List: Expression error at **Picture3.Picture.VBDescription = Required argument is missing** appears when CLAM Faceplate VB aspect is called. Expression error at **cboCascade.Text. VBDescription = 'Text' property is read-only appears when Log Configuration** tab is selected in CLAM Faceplate VB Aspect. 800xASRV-OL-5120-011	This problem has been corrected.

Fixed in 800xA 5.1 Revision A

Table 148 and Table 149 lists the Configuration and Operation issues that have been corrected in Asset Optimization for 800xA 5.1 Revision A.

Table 148. Configuration Issues

Issue	Correction or Fix
Unable to configure fault report default on an object that is reserved by the user. Important 800xAASO-CN-5100-001	The correction is made in Fault Report Submitter aspect.
In some scenarios Asset Optimization aspects require user authentication after restarting Asset Optimization Server node. 800xAASO-CN-5100-002	The correction is made in AOInstaller.

Table 149. Operational Issues

Issue	Correction or Fix
Error received on selection of View Active Work Orders in a Primary Structure. 800xAASO-OL-4100-004	This is no longer an issue.

Fixed in 800xA 5.1

Table 150, Table 151, Table 152, Table 153, and Table 154 lists the Installation, Administration, Configuration, Operation, and Miscellaneous issues that have been corrected in Asset Optimization for 800xA 5.1.

Table 150. Installation Issues

Issue	Correction or Fix
When mouse pointer is moved over the "Remove" option, the text changes to "Modify". This behavior is observed during uninstallation of Asset Optimization software using Add/Remove Programs. Important 800xAASO-IN-5020-001	This problem has been corrected.

When performing the 800xA System backup, the following error may appear:
 	
`System extension 'Asset`
`Optimizer Server Data`
`SP1'with ID: {848E4EA1-D4D4-`
`463A-92FF-AABAA2A89E71} is`
`not installed on this node`
 	
When performing the 800xA System restore, the following error may appear:
 	
`A required system extension`
`is not installed. NAME:`
`Asset_Optimization_SP1`
`Version: 3.1-0 ID: {848E4EA1-`
`D4D4-463A-92FFAABAA2A89E71}`
800xAASO-IN-4100-002
	This problem has been corrected.

The Identity setting for the DMS Session COM+ object must be changed from Interactive User to the Service Account on the AOWebServer Node if it is not desired to have a user permanently logged in (locking of the workplace is possible). 800xAASO-IN-4100-003	This is no longer an issue for System Version 5.1. Tight DMS integration is no longer supported in System Version 5.1. The DMS component is substituted with loose device calibration integration.

Table 150. Installation Issues (Continued)

Issue	Correction or Fix

Loading the **Asset Monitor Environment** system extension will result in the following entries in the 800xA Configuration Wizard log:
 	
`...\AOSV5\SystemExtentions\`
`AssetMonitorEnviroment\impor`
`t\zHXAM_G_Object_Definition`
`5_0.afw`
`Log Configuration aspect may`
`be inconsistent. Please run a`
`consistency check to verify`
`its references.`
 	
`...\AOSV5\SystemExtentions\`
`AssetMonitorEnviroment\impor`
`t\zHXAM_ST_Object_Definition`
`5_0.afw`
`Log Configuration aspect may`
`be inconsistent. Please run a`
`consistency check to verify`
`its references.`
                     800xAASO-IN-5000-001
	This is no longer an issue with System Version 5.1.

Table 151. Administration Issues

Issue	Correction or Fix

The Asset Optimizer Server system extension does not support 800xA System names that have leading and/or trailing spaces. An unsupported 800xA System name will cause the Asset Optimization view to display the following error message:
 	
`OPTAOWebService error`
`getting AbbSystem...`
                   800xAASO-AD-5000-008
	This problem has been corrected.

Table 152. Configuration Issues

Issue	Correction or Fix
Creating multiple objects with the same name using the Bulk Data Manager tool will create only the first object if the object has DMS aspects. For all other objects the error message: `Runtime Exception` will be displayed in the **Errors** tab. 800xAASO-CN-4100-013	This is no longer an issue for System Version 5.1. Tight DMS integration is no longer supported in System Version 5.1. The DMS component is substituted with loose device calibration integration.
If the SAP User Credential aspect is configured incorrectly, the message will be: `SAP Logon connection failed: Check credentials.` If the SAP credential is missing on the user, the message will be: `Error getting SAPLogonCtl.Connection: Type mismatch.` 800xAASO-CN-4100-014	Improved error handling and error message description.
Clicking **Edit Category Data** in the Maximo Equipment ID associated with the [Aspect System Structure]Aspect Systems/Maximo Connectivity/Maximo Equipment ID object does not work when the Maximo Equipment ID aspect view is launched in a separate window. 800xAASO-CN-4100-015	Double-click the equipment ID aspect which opens the aspect in the Plant Explorer floating window. Click edit category button to display the provider properties main view.

Table 152. Configuration Issues (Continued)

Issue	Correction or Fix
When configuring an Object Type by adding one or more of the following aspects: • Asset Reporter. • Asset Viewer. • Asset Monitors. the **Copy to all instances** check box, for these newly added aspects, is not automatically enabled in the **Aspect Control** tab of the Object Type definition aspect. 800xAASO-CN-4100-017	Navigate to the **Aspect Control** tab of the Object Type Definition aspect, and for each of the identified aspects the **Copy to all instances** check box is automatically enabled.
The PPA Object Properties Browser in Asset Monitor aspects allows the selection of an object name. If this name is copied and pasted into an Input Record Data Item ID field in the Asset Monitor aspects, the data item will produce an error and the Asset Monitor will not run. 800xAASO-CN-4100-018	This is no longer an issue for System Version 5.1.
If the configuration of an Asset Monitor Data Source aspect changes, the configuration change must be loaded to the Asset Monitoring Engine. There is no dedicated menu for performing this operation. 800xAASO-CN-4100-019	A static text is displayed in the preview pane of the Asset Monitor data source aspect indicating that the Asset Monitor be downloaded again. This needs to be done in each AO server where this data source is referenced.
It is not possible to double-click on and launch an Asset Optimization Server aspect in a floating window, if that Asset Optimization Server has not been configured to point to a valid Asset Monitoring Service Provider. 800xAASO-CN-5000-002	The AO server brings up the free floating configuration window to perform the configuration.

Table 152. Configuration Issues (Continued)

Issue	Correction or Fix
The HXAM-G and HXAM-ST configuration faceplates only support YES or NO inhibit values. 800xAASO-CN-5000-003	Any string for inhibit can be entered except for keyword strings "True" or "False".
Renaming an Asset Monitor object instance does not update the name of the object in the list of loaded asset Monitors in AO server. 800xAASO-CN-5000-005	For more information, refer to *System 800xA Asset Optimization Configuration (3BUA000118*)*.
A manual step is required after performing the Replace Unit operation in Control Builder M for a PROFIBUS device. Important 800xAASO-CN-5000-007	For more information, refer to *System 800xA Asset Optimization Configuration (3BUA000118*)*.
The Trend Display aspect in the Heat Exchanger - Shell and Tube and Heat Exchanger - Generic Object Types is not correctly configured, resulting in unreliable trend plots. 800xAASO-CN-5000-009	This problem has been corrected.
In systems with Engineering Environments enabled for Configure and Deploy or Load Evaluate Go, the Asset Tree Service may crash when deploying device objects with Asset Monitor aspects. Important 800xAASO-CN-5010-003	This is no longer an issue for System Version 5.1.

Table 152. Configuration Issues (Continued)

Issue	Correction or Fix
If re-authentication and double authentication are set on the Fault Report Submitter Aspect, the re-authentication dialog does not appear on **Submit** or **Dismiss** action. These actions continue without the authentication being made. Important 800xAASO-CN-5020-002	Fault Report Submitter aspect does not support re-authentication/ double authentication. For more information, refer to *System 800xA Asset Optimization Configuration (3BUA000118*).*
Application Engineer and Operator user cannot modify configuration of Control Loop Asset Monitor. The following message appears when a Controller Configuration or Loop Analysis Configuration aspect view is opened. "Err.Description:Method '~' of Object '~' failed." Important 800xAASO-CN-5020-001	The message box with description "Method of object failed" will not be displayed. When the user without config permissions for Control Loop Asset Monitor tries to access this aspect, it will result in standard PPA error "Access denied." For more information to configure the user roles and permissions, refer to *System 800xA Administration and Security (3BSE037410*).*
In Object Type Structure, Asset Monitor Properties Aspect is not available on the objects with asset monitor aspect(s), then it is not possible to browse and link asset monitor properties in graphic or faceplate displays. Important 800xAASO-CN-5020-003	This problem has been corrected.

Table 152. Configuration Issues (Continued)

Issue	Correction or Fix
If there are multiple object instances in Control Structure with the same name and running Asset Monitors, then AO reports does not report data from all the Asset Monitors. Important 800xAASO-CN-5020-004	When generating AO reports, Object ID is referenced instead of Object Names.
Control Loop Asset Monitor diagnosis results are not accurate using default configuration. Important 800xAASO-CN-5020-005	The default value of aggregate function parameter is set to '1'. Control Loop Asset Monitor diagnosis results are more accurate using default configuration.

Table 153. Operational Issues

Issue	Correction or Fix
If the 800xA System is configured to require reauthentication on DMS aspects and the DMS Division is synchronized, authentication will have to be entered for each device. 800xAASO-OL-4100-006	This is not an issue with System Version 5.1 Release. Tight DMS integration is no longer supported in System Version 5.1. The DMS component is substituted with loose device calibration integration.
If an asset monitor assignment changes from one AO Server to another, the Fault Reports associated with the Asset Monitors will no longer be accessible. 800xAASO-OL-4100-024	Ensure to review and disposition the Fault Reports before changing the AO Server node assignment. For more information, refer to *System 800xA Asset Optimization Operation (3BUA000150*)*.

Table 154. Miscellaneous Issues

Issue	Correction or Fix
Configuring AMService Time out Systems running with large number of asset monitors, may experience difficulties in configuring Asset Optimization. In such cases, many Asset Condition Documents (ACDs) are submitted unsuccessfully (displayed in AO Server statistics page) with the following messages in Asset Optimization Event Log: - "PushConditionDocs Failed ObjectID: {..." - CAssetMonitoring::QueryConditionStates failed (hr=8abb0...) - ... detected Soft Alarm Service resumed... Soft Alarm Service calls were missed. 800xAASO-MS-5020-001	AMHandler (AMHdlrTimeoutMS parameter) timeout default value is set to 30,000 ms.

Section 16 PC, Network and Software Monitoring

This section details the Fixed Problems for PC, Network and Software Monitoring (PNSM) that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision D

Table 155 lists the Operation issues that have been corrected in PNSM for 800xA 5.1 Revision D.

Table 155. Operational Issues

Issue	Correction or Fix
Trap functionality fails to monitor V1 generic traps for ESXI Servers. Eventually alarms or events for the V1 traps will not be generated in the system. 800xAPNS-OL-5102-005	The corrections are made in the PnsmSnmpTrapEngine component.

Fixed in 800xA 5.1 Revision C

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision B

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision A

No fixed issues for this revision.

Fixed in 800xA 5.1

Table 156, Table 157, Table 158, and Table 159 lists the Installation, Configuration, Operation, and Miscellaneous issues that have been corrected in PNSM for 800xA 5.1.

Table 156. Installation Issues

Issue	Correction or Fix
Upgrading from a Client installation to a Server installation does not work properly. 800xAPNS-IN-4100-012	This problem has been corrected.
It is not possible to launch Network Device Scanning Tool on PNSM client nodes. 800xAPNS-IN-5020-001	The Network Device Scanning Tool is no longer supported.

Table 157. Configuration Issues

Issue	Correction or Fix
All custom values entered in the IT Asset Monitor aspect are discarded whenever the IT Device Manager regenerates the IT Asset Monitor. 800xAPNS-CN-4100-013	To override the configurations provided in the standard IT Device types: 1. Create new copies of the standard IT Asset and IT Device types. 2. Modify the settings in the copied types. 3. Base the IT Asset objects on the new types. Refer to *System 800xA PC, Network, and Software Monitoring Configuration (3BUA000118*).*

Table 157. Configuration Issues (Continued)

Issue	Correction or Fix
The System Status Viewer may take a long time to appear and may create a high CPU load when calling up a display with many IT Assets. Important 800xAPNS-CN-4100-014	This is no longer an issue for System Version 5.1.
When an incorrect IT Device Configuration type is used to monitor a device, and the **Keep Alive** check box is enabled for any device property in the configuration page for an IT Device Configuration aspect, an error could occur when accessing the device properties. 800xAPNS-CN-4100-015	This is no longer an issue for System Version 5.1.
Subscriptions for PNSM assets are not released when the assets are deleted. 800xAPNS-CN-5000-001	This is no longer an issue for System Version 5.1.
After completing the upgrade by using backup/restore, the Log Configuration aspects pop-up an error message "E_ADV_HT_NO_LOG (0x8abb1c19) No Log" when trying to read the PPA log. Important 800xAPNS-CN-5020-001	The error occurs in case Log Configuration aspect includes IT Control Connection item(s). The steps to overcome this problem is documented in *System 800xA Upgrade (3BSE036342*).*

Table 158. Operational Issues

Issue	Correction or Fix
Populate from the Basic Computer Monitoring object logs error message in the Windows Event Viewer. The error display is, "The VB Application identified by the event source logged this Application AbbAoCommonUtils: Thread ID: 1852, Logged: -1967453939 WMIDevice.WMIDeviceData.AdeRunTime Method '~' of object '~' failed." 800xAPNS-OL-5020-001	This problem has been corrected.
Creating IT Asset Monitor, Asset Reporter, and Asset Viewer aspects on IT Asset Object instances will take several minuets. 800xAPNS-OL-5020-002	This is no longer an issue for System Version 5.1.
Microsoft Error Reporting dialog displays an unexpected error in ABB Network Monitor Server application. Typically this error is displayed after system reboot. Important 800xAPNS-OL-5020-003	This is no longer an issue for System Version 5.1.

Table 159. Miscellaneous Issues

Issue	Correction or Fix
When both Primary and Secondary Batch servers are monitored, and when failover occurs, the new Secondary node will show bad status for three tasks (that do not exist in a Secondary Batch server node, but do exist in the Primary Batch IT asset). Important 800xAPNS-MS-4100-016	For more information, refer to *System 800xA PC, Network, and Software Monitoring Configuration (3BUA000118*).*

Table 159. Miscellaneous Issues (Continued)

Issue	Correction or Fix
The PNSM OPC Server cannot run the Network Monitoring Asset on an IBM ThinkPad Laptop computer. Important 800xAPNS-MS-4100-017	This is no longer an issue for System Version 5.1.
Opening a MIB file in the Network Device Scanning tool (NDST) will cause duplicate entries to be displayed in the tool. 800xAPNS-MS-4100-018	The Network Device Scanning Tool is no longer supported.
If Basic Computer Monitoring was configured in System Version 3.1, Basic Computer Monitoring will not be correctly upgraded to System Version 5.0 SP2. 800xAPNS-MS-4100-019	For more information, refer to *System 800xA Upgrade (3BSE036342*).*
Under certain conditions the PNSM OPC Server may run at high CPU. Important 800xAPNS-MS-4100-020	This is no longer an issue for System Version 5.1.
PNSM assets using non summary Asset Monitors may create numerous alarms if the nodes or device fails or is powered down. Important 800xAPNS-MS-5000-004	For more information, refer to *System 800xA PC, Network, and Software Monitoring Configuration (3BUA000447*).*

Section 17 Batch Management

This section details the Fixed Problems for Batch Management that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 161, Table 162, and Table 163 lists the Operational issues that have been corrected in Batch Management for 800xA 5.1 Revision E.

Table 160. Operational Issues

Issue	Correction or Fix
The compute BMA used to define/execute custom function, randomly fails to execute resulting in Batch Manager not responding. This can be triggered by creating an expression that exceeds 511 characters with an "OR" (||) operator after the 511th character. 800xAPMB-OL-5126-108	This software has been corrected.The Batch Manager will now handle the custom functions defined in Compute BMA as expected.
The PFC zoom feature fails to work, if more than one PFC displays are open. 800xAPMB-OL-5140-115	The software has been corrected to handle the zoom feature

Table 160. Operational Issues

Issue	Correction or Fix
Slow client responses due to increased network loading. This issue is related to multiple input message dialogs being open at the same time from multiple clients. While not noticeable for recipes of average complexity, the issue is severely magnified in complex control recipes (3000 recipe instances) and large quantities of dynamic labels (e.g. each PFC block has a dynamic label, instead of more typical 1-2 percent) 800xAPMB-OL-5130-101	The software has been corrected to reduce the network load. Users should still be aware of their use of dynamic labels in complex and deep hierarchical recipe structures. As a general rule, no more than 2% percent of blocks within these type of recipes should be used.
In the audit trail event for the category of Batch Operator Actions, there is no indication about the operator inputs for Batch Messages. 800xAPMB-OL-5131-112	The software has been corrected now. The Long Message field of the Audit Trail Event messages, now includes the batch operator actions. This is the same information supplied in the Long Message field of the Block Status event message.
The Batch Manager stops responding when two operators try to delete an unscheduled Batch at the same time from different Batch Overview Dialogs. 800xAPMB-OL-5131-107	This issue has been resolved. The Batch Manager will now properly handle multiple requests for deleting the same item from the Batch Overview Dialogs.
A Large number of overlaps and opening and closing the Runtime view of a Batch Phase aspect and Runtime view of a Batch Equipment aspect impacts the workplace operation due to high memory usage. 800xAPMB-OL-5140-113	The software has been corrected to reduce the memory usage.

Table 160. Operational Issues

Issue	Correction or Fix
A user who has logged over using the Log Over feature is not allowed to approve a batch PFC that has been edited runtime even though they have the appropriate permissions.The user making the changed is forced to log on to the system directly to approve the runtime edit. 800xAPMB-OL-5140-112	The software has been corrected and the users can now log over and approve the PFC if they have the appropriate permissions.
When a user launches the Tag Data from the Batch History Information dialog, the value area background color is too dark that makes the value invisible. This issue is seen only on Windows 7 Batch clients nodes. 800xAPMB-OL-5140-109	The software has been corrected and the Tag Data value is now visible in the Batch History Information dialog.
The precision of the Batch information provided through Web Service calls is not the same as provided in the Batch Manager. 800xAPMB-OL-5020-104	The software has been corrected and the existing applications need to have their Batch Web Service reference updated and be rebuilt.
An error message "Batch_RedStatus.exe has stopped working" is displayed sometimes during the operation in few nodes in a system. The status icon does not show the current status. 800xAPMB-OL-5140-110	The software has been corrected.

Fixed in 800xA 5.1 Revision D

Table 161, Table 162, and Table 163 lists the Operational issues that have been corrected in Batch Management for 800xA 5.1 Revision D.

Table 161. Operational Issues

Issue	Correction or Fix
Users must resize the parameters window (Batch parameters and Phase parameters) every time to get the best view. 800xAPMB-OL-5102-088	The software has been corrected to view the parameters (Batch parameters and Phase parameters) window in the last viewed size without resizing it. This is applicable in both run-time and Configuration modes.
The ObjectName field does not get transferred to the Production Data Log (PDL) for the Operator Action audit events. 800xAPMB-OL-5102-087	The software has been corrected to transfer to the PDL for the Operator Action audit events.
P and **S** Batch graphic push buttons (PFC and Status dialog call-ups), when implemented in a Process Graphic 2 (PG2) display are causing delayed call-up times for those graphics. Users may also see delayed updates on already called-up displays. Product Bulletin: 3BUA002317 800xAPMB-OL-5130-093, 800xAPMB-OL-5120-86, 800xAPMB-OL-5100-036	The software has been corrected to resolve this issue.

Table 161. Operational Issues

Issue	Correction or Fix
Use of large quantities of dynamic labels within a PFC display are causing PFC call up times to be impacted. While not noticeable for recipes of average complexity, the issue is severely magnified in very complex control recipes (3000 recipe instances) and large quantities of dynamic labels (e.g. each PFC block has dynamic label, instead of more typical 1-2 percent). 800xAPMB-OL-5130-090, 800xAPMB-OL-5130-091	The software has been corrected to modify a low-level routine to introduce caching of recipe translation table for a short period of time. This reduces network load and will improve call up times for the PFC displays.
The Batch operation access levels for Batch message second approvals are not mapped to the correct access level permission. Permissions to the Operations were checked incorrectly as mentioned in the Table 162. Product Bulletin: 3BUA002392 800xAPMB-OL-5122-089,800xAPMB-OL-5111-004	The software has been corrected to check for the permissions to the Operations. Refer to Table 163 to view the permissions to the Operations after the correction.
Workplace stops responding while multiple Batch Overview windows are open. 800xAPMB-OL-5026-023	The software has been corrected to prevent multiple unpinned Batch.
The system does not handle the units that are inserted into multiple structures correctly. This creates duplicate Batch messages in the PDLMSGLOG from the Batch Unit. 800xAPMB-OL-5102-48	The software has been corrected to handle the units that are inserted into multiple structures.

Table 161. Operational Issues

Issue	Correction or Fix
Using the TAB key for navigating between user input fields does not work in the Batch Message Window at runtime. Product Bulletin 3BUA002337 800xAPMB-OL-5102-078	The software has been corrected to make the Batch Message window functional.
The Harmony PhaseX faceplate shows a partial GUID for the recipe (the Main tab RE field and the Acquiring IDs tab Recipe ID field). 800xAPMB-OL-5130-025	The rollup is made to show the recipe name. **Note**: This problem has been corrected in System 800xA 5.1 Rev E.
A Harmony PhaseX phase with no parameters will fail to run when it is within a sequence. 800xAPMB-OL-5130-026	A phase with no parameters can now be run in a sequence. **Note**: This problem has been corrected in System 800xA 5.1 Rev E.
When an invalid parameter sequence string is sent while attempting to run a Harmony PhaseX phase (e.g. a text phase parameter value having double quotes), the block will correctly report the failure, but it is then left in a connecting state that cannot be aborted from Batch. 800xAPMB-OL-5130-027	When an invalid parameter sequence string is sent, the phase will go into the Aborted state.
Selecting a restart point in the exception recipe does not work correctly. 800xAPMB-OL-5104-086	The software has been corrected.
When Harmony PhaseX phases run, Event handles are allocated but not released. This will eventually cause system instability. 800xAPMB-OL-5130-028	Event handles are properly released when the phases complete.

Table 161. Operational Issues

Issue	Correction or Fix
When a Harmony PhaseX phase is run for the first time (i.e. after complete system restart), it takes 30 additional seconds to star t (above the normal phase start overhead). 800xAPMB-OL-5130-024	The first time execution overhead has been reduced to 15 seconds. Architectural limitations prevent entirely eliminating this first time overhead.
When a running Harmony PhaseX phase is put into local mode using the faceplate, the Batch status on Batch Overview will go into error when the phase completes, which is correct. However, after returning the phase to Batch manager mode and continuing at the next block in the recipe, the Batch status remains in error when it should not. 800xAPMB-OL-5130-029	The error on the Batch status is now cleared when continuing at the next block.
Exception Procedures are not being reset once they have been executed and returned from a triggered exception state. A failure will occur when a second trigger of the same exception procedure occurs. The first execution of the exception procedure will process normally. Procedures that use **Start** and **End** blocks where they have been copied from existing Start and End blocks are causing this issue. Exception Procedures that use the **Start** and **End** blocks that are dropped on to the procedure using the Procedure Editor will also have this issue. Document number: *3BUA002290* 800xAPMB-OL-5130-100,800xAPMB-OL-5130-033, 800xAPMB-OL-5100-035	The cutting and pasting of exception Start and End blocks is allowed. Dropping blocks from the Procedure Editor is also allowed with these corrections. Refer to Appendix A on page 415 to run the utility.

Table 161. Operational Issues

Issue	Correction or Fix
Batch Advanced Templates delivered with 800xA Batch Management 5.1.2-0 are not compatible with System Version 5.1 FP4. This issue only applies to users of the Batch Advanced Templates. The templates will download with errors if a user tries to use them. Product Bulletin: 3BUA002534 800xAPMB-OL-5130-034,800xAPMB-OL-5140-024	The software has been corrected to address the issue.
Phase can be incorrectly left marked as **in use**, if certain OPC error conditions exist during completion of the phase. 800xAPMB-OL-5130-031	The release of the phase is now unconditional and a new diagnostic message is added.
The **Modified by** column in the Aspect list does not update when a Development Procedure Aspect is modified by another user using the PFC editor. Instead, the username that created the file is indicated. 800xAPMB-OL-5130-030	The software has been corrected to update the Modified by column with the username who performs the configuration changes in the PFC Editor.
Batch status icon shows the Batch Servers are down. The status icon appears to be intermittent and will switch between good and bad status. This is associated with the use of affinity option. Product Bulletin: 3BUA002611 800xAPMB-OL-5130-032, 800xAPMB-OL-5102-90	The software has been corrected to use the affinity option. The status icon behavior is no longer affected.

Table 161. Operational Issues

Issue	Correction or Fix
Transitions would not go in "**Active**" state while returning from "**Hold**" state. 800xAPMB-OL-5102-079	The software has been corrected.
During runtime, Batch message dialog displays '*'*' when user has provided " ' " (single quote) in the Message configuration dialog. Eg: Input during configuration 'OK' appears as "'OK'" during runtime. 800xAPMB-OL-5104-088	The software has been corrected to resolve this issue.
While trying to access the active Batch PFC's from the graphics that uses navigation links, the recipe variables fail to populate and show up as undefined. 800xAPMB-OL-5122-089	The software has been corrected to resolve this issue.
The throw function (*default*) causes huge amount of alarms generated in the system. 800xAPMB-OL-5104-090	The software has been corrected to resolve this issue.

Table 162. Permissions Checked Before the Correction

2nd Approval Level	Operation for which permissions are checked
Operator Level 1	None
Operator Level 2	BatchRT_Add

Table 162. Permissions Checked Before the Correction

2nd Approval Level	Operation for which permissions are checked
Operator Level 3	None
Engineer Level 1	BatchRT_ChangeMode_Auto
Engineer Level 2	BatchRT_2ndChangeMode_Auto
Engineer Level 3	BatchRT_ChangeMode_SemiAuto
Supervisor Level 1	BatchRT_2ndChangeMode_SemiAuto
Supervisor Level 2	BatchRT_ChangeMode_Manual
Supervisor Level 3	BatchRT_2ndChangeMode_Manual

Table 163. Permissions Checked After the Correction
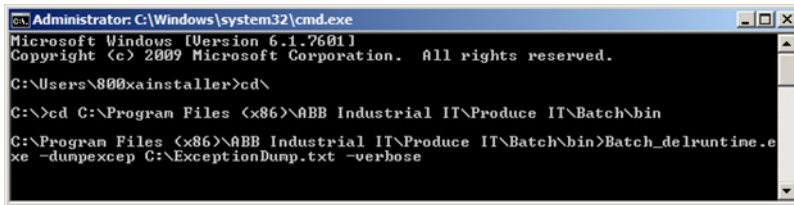
2nd Approval Level	Operation for which permissions are checked
Operator Level 1	BatchRT_Operate1
Operator Level 2	BatchRT_Operate2
Operator Level 3	BatchRT_Operate3
Engineer Level 1	BatchRT_Engineer1
Engineer Level 2	BatchRT_Engineer2
Engineer Level 3	BatchRT_Engineer3
Supervisor Level 1	BatchRT_Supervise1
Supervisor Level 2	BatchRT_Supervise2
Supervisor Level 3	BatchRT_Supervise3

Appendix A

This utility scans all the exception procedures available in the system and generates a report displaying a list of erroneous exception procedures.

Procedure to run the utility:

1. Open the command prompt by clicking on **Start** -> **Run** and then type **Command**.

2. Type *<Drive>:\Program Files\ABB Industrial IT\Produce IT\Batch\bin\Batch_delruntime.exe -dumpexcep <Drive>:\ExceptionDump.txt -verbose* and hit **Enter** as shown in Figure 1.

Figure 1. Command Prompt

The output is generated in the location <Drive>:\.

3.   **Open** the *.txt* file and identify the errors/warnings of the exception procedures as shown in Figure 2.

Figure 2. Output File

Based on the errors, **open** the exception recipes and **save** them. This will rectify all the erroneous exception procedures in the system.

Run the utility again to check the functionality.

Fixed in 800xA 5.1 Revision B

Table 164, Table 165, and Table 166 lists the Installation, Operation, and Instruction Manual Changes issues that have been corrected in Batch Management for 800xA 5.1 Revision B.

Table 164. Installation Issues

Issue	Correction or Fix
The Batch Process Graphic 2 (PG2) elements Batch Message, Batch PFC and Batch Status regional language setting are not set correctly with their respective language packages. Setting to a language reference other than English will cause the Batch graphic element to malfunction. 800xAPMB-IN-5102-025	The existing graphic elements can be corrected by modifying the each instance of the Batch Message, Batch PFC, and Batch Status aspects. Refer Product Bulletin *WE-DOC-3BUA002317* for more information.

Table 165. Operational Issues

Issue	Correction or Fix
Plant Explorer Workplace may shut down when selecting the **Events** tab from the Batch Information dialog. 800xAPMB-OL-5110-008	This problem has been corrected.
If a user does a manual reserve and closes the Equipment Information dialog before the reserve action has completed, the unit fails to be reserved. Closing the dialog will not notify the operator of the cause of the failure. Note that the unit will appear in the queue for reservation and gives the user an impression that the request is being processed. It is not until the request is reached in the queue that the time out will occur. The reservation will continue with the next request. The reservation can remain in the queue for a longer period of time, so the failure will not always be obvious to the user. 800xAPMB-OL-5110-011	This problem has been corrected. If the dialog has been closed, users will not be able to cancel the reservation. They will have to wait until the reservation is completed in order to release the equipment.
Dynamic labels used on the **Batch Overview** display dialog are not getting updated. In some instances error messages are also displayed. However, the labels on the PFC displays are updated properly. 800xAPMB-OL-5102-050	This problem has been corrected.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
A guest user having read rights will not have any control over Batch procedures or setting break points etc. However, if another user with appropriate rights is setting a break point, the guest user can remove the break points and continue the recipe. This happens as there are no security rights available for removing a break point. 800xAPMB-OL-5102-051	This problem has been corrected. Now the guest user will not be allowed to remove the break points.
Melody Phase parameters with "Out" direction are not updated with their final values. 800xAPMB-OL-5102-052	This problem has been corrected.
Error message 'NLS Translation Failed for ResourceID' occurs in the Batch server sys log. 800xAPMB-OL-5102-053	This problem has been corrected.
The recipe manager may not correctly handle an abort operation called from an exception recipe while a unit acquire operation is ongoing. Redundant systems can experience a failover, while non-redundant systems can cause a restart of the Batch Manager. 800xAPMB-OL-5102-054	This problem has been corrected.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
When scheduled a Batch recipe with large amount of Batch phase parameters the error message "WAIT_FAILED (PeekMsgWaitForMultipleObjects): The parameter is incorrect." is seen. 800xAPMB-OL-5102-055	This problem has been corrected.
The Process Graphics 2 (PG2) faceplate elements in the ProduceITBatchLib ver 1.6-2 have hardcoded BackColor (RGB 153, 185, 193). 800xAPMB-OL-5102-056	This problem has been corrected. The hard coded values are now changed with system defined values.
The Batch Unit Faceplate in Process Graphics 2 (PG2) may not work properly. The Start button does not show the right color (green) and is not enabled (it should be enabled by default). 800xAPMB-OL-5102-057	This problem has been corrected.
If one or more Batch clients are shutdown, the Batch Server has the potential to shutdown and not recover until all the Batch clients are back online. 800xAPMB-OL-5102-058	This problem has been corrected.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
The Batch Manager randomly restarts. This issue is related to the use Batch OPC expressions typically used in Function Phase Driver applications. Native Phase Drivers for AC 800M, MOD 300, Melody, and DCI are not experiencing this issue. 800xAPMB-OL-5102-059	This problem has been corrected.
The Batch Manager randomly restarts. This issue is related to the use Batch OPC expressions typically used in Function Phase Driver applications. Native Phase Drivers for AC 800M, MOD 300, Melody, and DCI are not experiencing this issue. 800xAPMB-OL-5102-060	This problem has been corrected.
When aborting a batch and there exists over 300 active blocks running, the Batch Recipe Manager may fail and may cause the primary Batch Server to fail over. 800xAPMB-OL-5025-011	This problem has been corrected.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
The recipe manager may not correctly handle the situation, when a block in a HELD state is restarted from the exception recipe and completes immediately as part of the ex_restart function call.This happens only when using Transition Blocks. 800xAPMB-OL-5025-014	This problem has been corrected.
Recipe Manager may not reliably restart when failures occur. 800xAPMB-OL-5025-015	This problem has been corrected.
'phased.exe' crashes when same OPC Item ID is used as both IN and OUT Parameter. 800xAPMB-OL-5025-019	This problem has been corrected.
The Stopping command code block is not being executed when a **Stop** command is issued from a state of **Restarting**. The command will go directly to the **Stopped** state. This is contrary to the state diagram for this state change. This issue is only associated with the use of the Advanced Phase Templates and the code block that is used to process the command logic for the Phase state command. 800xAPMB-OL-5025-022	This problem has been corrected. The issue has been corrected as per the state diagram, which states that the Batch phase should go from **Restarting** to **Stopping** and then to **Stopped** state.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
Test quality colors not displayed as desired for Melody. 800xAPMB-OL-5025-017	This problem has been corrected.
Multiple lines of text cannot be entered in Text box. 800xAPMB-OL-5102-062	This problem has been corrected.
Unable to enter Batch ID if the **Auto option** is enabled for Unit or Operation Procedures. 800xAPMB-OL-5102-063	This problem has been corrected.
The data in **InValue** and **Value** In Controller does not match with the live data that is subscribed in the Control Module aspect. This is observed at runtime. 800xAPMB-OL-5102-064	This problem has been corrected.
The OUT parameter data is not collected properly for Melody and AC800M controllers. 800xAPMB-OL-5102-065	This problem has been corrected.
If Recipem crashes, the process hangs preventing a clean exit. The event will appear in SYSLOG as check timeout, not a crash. 800xAPMB-OL-5102-066	This problem has been corrected. Now the SYSLOG shows the event as Intentional Batch Manager crash.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
Recipe deletions do not synchronize properly when the Secondary Server comes up. This occurs when the Secondary Server is down while deleting the recipe. 800xAPMB-OL-5102-067	This problem has been corrected.
When a user clicks on Save As on child PFC, it incorrectly Overwrites to the top level recipe and not the child PFC. 800xAPMB-OL-5102-068	This problem has been corrected.
The Web Services Interface call, "GetProcedures" does not return the correct procedure path for nested procedure hives if there is more than one hive at the same level. 800xAPMB-OL-5110-003	This problem has been corrected.
There is an error log created while performing a display test on Batch Overview as there is a significant leak of GDI objects which is around 2 per display change. 800xAPMB-OL-5102-069	This problem has been corrected.
PFC block label text and block symbols are unreadable. 800xAPMB-OL-5102-070	This problem has been corrected. Block label text and symbols are now readable.
Proper error message required while users unable to schedule a Batch. 800xAPMB-OL-5010-024	This problem has been corrected.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
Unable to get the Online Help pop-up while pressing F1 key on the Batch Overview, Batch Equipment Overview, and Batch History Overview windows. 800xAPMB-OL-5102-071	This problem has been corrected.
The Event filter option fails to function in the Advanced Event dialog when Start Time and End Time fields are configured manually (copy/paste/clear). 800xAPMB-OL-5102-072	This problem has been corrected.
When an OPC Item is of a bad quality, the function for unitattget returns quality 192 as a string instead of 32. 800xAPMB-OL-5102-073	This problem has been corrected.
The error message displayed while executing the unitattget function is incomplete. 800xAPMB-OL-5102-074	This problem has been corrected. Now the error message in the block status displays the Attribute name along with the Unit name.
The XML data attribute is not formed correctly in the events view in the Alarm and Event list aspect of the Plant Explorer. While generating reports, data extracted from PDL displays an error of malformed xml. This is due to the data defined in core modules of ProduceITBatchLib(1.6-2). 800xAPMB-OL-5102-075	This problem has been corrected with the system extension.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
If the "Batch Advanced Templates" system extension is not loaded the Batch Phase Faceplate Process Graphic 2 (PG2) Aspect Key will not be available. The Batch Phase Faceplate PG2 Aspect key is needed when connecting Batch Phase Faceplates other than the default. This normally applies when using other connects product (i.e. MOD 300, DCI, Melody, Freelance, Harmony, etc). 800xAPMB-OL-5111-003	This problem has been corrected. The Batch Phase Faceplate PG2 Aspect Key is now distributed in the main Batch System extension.
Consistency Checker finds the invalid warnings for Batch Workplace Frames present under the Library Structure. 800xAPMB-OL-5102-077	This problem has been corrected.
Exception Procedures are not being reset once they have executed and returned from a triggered exception state. A failure will occur when a second trigger of the same exception procedure occurs. The first execution of the exception procedure will process normally. 800xAPMB-OL-5100-035	This problem has been corrected. Now it is possible to use multiple Start and End blocks within a single exception procedure.
Data from the exception procedure that is previously configured is not removed from the dump, even though the user has modified the procedure block by adding other procedure types. 800xAPMB-OL-5102-080	This problem has been corrected.

Table 165. Operational Issues (Continued)

Issue	Correction or Fix
If a user adds a campaign to the Batch ID input field and delete the value and decides to schedule the Batch with another campaign ID, a pop-up window appears asking if the user wants to run the Batch. Despite the user response there will be a popup appearing again asking user to run the campaign that they deleted. 800xAPMB-OL-5102-081	This problem has been corrected.
While saving the recipe in the Runtime Edit dialog, the Comment data is not shown in the BatchEventList and in the BatchReports. 800xAPMB-OL-5102-085	This Problem has been corrected. The Comment data is now available as **LongMessage** in the BatchEventList and also in the BatchReports. BatchReport provides first 300 characters of the Comment as **LongMessage** in the Audit Events Sheet.

Table 166. Instruction Manual Corrections

Instruction	Correction or Fix
System 800xA Batch Management 5.1 Operation instruction needs to clearly state the updated information on "No Access" level. 800xAPMB-MC-5102-060	Section 6: Batch Equipment Status: Page 148 has an information note (in Equipment Attributes Tab sub-section) mentioning about **No Access** level. The note should contain the following: *"This defines the runtime access level to the attribute. The Batch manager has the highest access level. Therefore, a recipe can write to any equipment attribute that has an access level other than no access (using unitattput/unitattputs commands). A recipe can also write the values to the attribute with the Access Level of "No Access" for the following attribute types/fields:* • *OPC properties (OPC Datapoint, OPC Float, OPC Integer and OPC Text).* • *In Controller.* *A recipe cannot write the values to no access Local attributes (Float, Integer and Text)."*

Fixed in 800xA 5.1 Revision A

Table 167, Table 168, and Table 169 lists the Installation, Configuration, and Operation issues that have been corrected in Batch Management 800xA 5.1 Revision A.

Table 167. Installation Issues

Issue	Correction or Fix
While installing batch, clicking **Back** button at the **Browse Service Account** step launches the SQL Server setup. Installation continues even if an invalid / blank user name is entered. Important 800xAPMB-IN-5100-023	This problem has been corrected.
Manual installation of the Batch Management Client indicates that a newer version of SQL Client is required. During the manual installation of the Batch Management Client, a dialog containing the following may be displayed. `Batch Client requires Microsoft SQL Server Native Client 10.0 (Client Tools Connectivity feature of SQL Server 2008 SP1) (Version 10.1.2531). The version of the installed SQL Client (10.1.2734.0) is later than the required version and may not be supported.` This dialog may occur if SQL Server is installed for another system 800xA component previously. Important 800xAPMB-IN-5100-034	This problem has been corrected.

Table 168. Configuration Issues

Issue	Correction or Fix
Procedure align fails to handle branch with trivial **leg**, where a trivial **leg** is a direct connection between branch start and branch end blocks with no intervening blocks. 800xAPMB-CN-5100-033	This problem has been corrected.
The acquiring of equipment (by a batch recipe) that has the Start Inhibited flag enabled will fail indicated by the equipment status changing to error. Cancelling the reservation, discarding, disabling, and enabling the equipment and finally disabling the Start Inhibited flag fixes the failure which allows the recipe to proceed to the phase. The phase fails because it thinks the equipment is still start inhibited. Important 800xAPMB-CN-5010-013	This problem has been corrected.
Procedures restored from System Version 4.1 and 5.0 systems are missing the Print Procedure aspect. Important 800xAPMB-CN-5000-016	This problem has been corrected.

Table 169. Operational Issues

Issue	Correction or Fix
The NodeName field for events generated by a Schedule Job BMA block is incorrect. This field is either blank or contains strange characters. 800xAPMB-OL-5100-025	This problem has been corrected.
The Batch Overview display, Equipment Overview display, and Batch History Overview display consume more memory in the workplace process. The memory is not released, when the display is dismissed. Whenever the Batch Overview display is opened, it consumes approximately 21 KB of memory in the AfwWorkplaceApplication.exe process. Whenever the Equipment Overview display is opened, it consumes approximately 600 KB of memory in the AfwWorkplaceApplication.exe process. Whenever the Batch History Overview display is opened, it consumes approximately 480 KB of memory in the AfwWorkplaceApplication.exe process. 800xAPMB-OL-5100-026	This problem has been corrected.

Table 169. Operational Issues (Continued)

Issue	Correction or Fix
Production Data Log (PDL) information is incorrectly sent to the 800xA Information Manager (IM). This issue affects the results of the Batch_Variables and Batch_Procedures views in the IM. **PNAME** and **PLABEL** attributes for both views indicate incorrect information. 800xAPMB-OL-5100-034	Batch Management has been corrected. **PNAME** and **PLABEL** attributes for Batch_Variables and Batch_Procedures views provide the correct information.
After performing the Process Portal Stop System function and then the Start System function, Batch Management does not function correctly. 800xAPMB-OL-5020-006	This problem has been corrected.

Fixed in 800xA 5.1

Table 170, Table 171, Table 172, and Table 173 lists the Installation, Configuration, Operation, and Instruction Manual Changes issues that have been corrected in Batch Management for 800xA 5.1.

Table 170. Installation Issues

Issue	Correction or Fix
Installing the Batch Management 5.0.2 Graphics Extension add on generates the error The name of Batch installed is not compatible with this Add On. 800xAPMB-IN-5020-066	Batch Management has been corrected to allow installation of the Graphics Extension add on.
While upgrading batch servers, if the wrong software is loaded on the wrong server workstation (secondary batch server software loaded on the <u>original</u> primary batch server workstation and the primary batch server software loaded on the <u>original</u> secondary batch server workstation), the current primary server may start up but the current secondary will try to synchronize and then shut down. Both the primary and secondary databases should be considered corrupt. 800xAPMB-IN-5020-024	This problem has been corrected.

Table 171. Configuration Issues

Issue	Correction or Fix
Attempting to rename a parameter of a phase type while the phase type is reserved by another user leaves the phase type in a corrupted state. Once in this state, the phase type cannot be added to any unit type. Important 800xAPMB-CN-5011-003	This problem has been corrected.
Batch parameter warning messages occur when default values of Batch parameters are set to either the low or high limit range of that parameter. These messages have been reported in recipes that have been upgraded and can occur in a new recipe configuration. Important 800xAPMB-CN-5020-067 Product Bulletin: 3BUA1590	This problem has been corrected.
Newly added equipment is not recognized by the GetEquipmentStatus() Batch XML web service function call if it is added after the initial GetEquipmentStatus() call is executed. 800xAPMB-CN-5021-004	The GetEquipmentStatus() call has been corrected to recognize newly added equipment.

Table 171. Configuration Issues (Continued)

Issue	Correction or Fix
Batch events that include an evaluated expression in the message may not be properly translated for display on the Event List. This will be observed if the expression includes the characters ‖ (logical OR operation). For example, if there is a transition configured with an expression containing the characters ‖ (logical OR operation), the transition started event will not be properly displayed in the Event List. In systems with a language pack installed, the message field will not be translated into the localized language. If the transition event contains a logical OR operation, the transition started event message will be displayed as follows `||Batch_Event_Transition_Started` `||Batch_Event_Expression\` `<<expression>>`. 800xAPMB-CN-5011-013	This problem has been corrected. Batch events that include an evaluated expression in the message are properly translated for display on the Event List.
Changes to recipe parameters in the Procedure Parameters window is not saved under a certain condition. The condition - using arrow keys to move between cells and then pressing the delete key will result in the change not being saved when **OK** is clicked. Important 800xAPMB-CN-5010-015	This problem has been corrected. Changes to recipe parameters in the Procedure Parameters window are saved properly under the specified condition.

Table 172. Operational Issues

Issue	Correction or Fix
The Batch Procedure **Import/Export** utility does not get installed as part of the Start Menu. Product Bulletin: 3BUA001297 800xAPMB-OL-5000-032 800xAPMB-OL-5100-001	This problem has been corrected.
PAS on Information Manager is not started automatically. Important 800xAPMB-OL-5100-002	This problem has been corrected and the PAS on Information Manager is started automatically.
When importing batch recipes from Process Portal B (PPB) Produce IT Batch to 800xA Batch Management, different color index is used in the 800xA system. In some cases it is difficult to read character fields due to this change in the color index. Product Bulletin: 3BUA001494 800xAPMB-OL-5100-003	Recipes that are going to be imported should first be reviewed to ensure that they are readable in Batch Management systems. This issue is updated in *Batch Management Configuration (3BUA000146R5101)* manual, in the *Color Discrepancies* sub heading.
In some instances, clicking the **Add** button in the **Print Procedure** window does not display the complete list of procedure aspects to configure the procedure report for printing. 800xAPMB-OL-5000-033 800xAPMB-OL-5100-004	This problem has been corrected.
Batch Manager Action (BMA) messages are not reported in the Event List at the batch manager level. 800xAPMB-OL-5100-005	This problem has been corrected and the Batch Manager Action (BMA) messages are reported in the Event List at the batch manager level.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
String compiler does not generate errors even if a string constant exceeds its maximum allowed size limit (1023 characters). In such situations, script interpreter may stop responding. 800xAPMB-OL-5100-006	This problem has been corrected. String compiler generates error messages, if a string constant exceeds its maximum allowed size limit.
In some instances, it is not possible to schedule batches through ECS. Important 800xAPMB-OL-5100-007	This problem has been corrected. Users can schedule batches through ECS.
Changes to inhibit states are not recognized within Batch Management. This occurs when using the BatchAdvancedTemplate Library inhibit parameters. Important Product Bulletin: 3BUA001487 800xAPMB-OL-5020-061 800xAPMB-OL-5100-008	Changes to inhibit states are recognized within Batch Management even if the BatchAdvancedTemplate Library inhibit parameters are used.
Guest Users (without rights for operation) do not receive an Access denied: Invalid security level error message when the **Batch Message** button is clicked in a graphic display. The 800xA workplace appears to stop functioning. Important 800xAPMB-OL-5100-009	The Access Denied error message was being displayed underneath the workplace. It is now displayed on top of the workplace allowing it to be seen and acknowledged or cleared.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
All core modules (such as PhaseCore, SharedEquipmentModuleCore, and UnitCore) are having their **Alarm Owner** and **Instantiate as Aspect Object** properties selected by default, even though the core modules does not have a Name Parameter. This leads to list these modules with the **Object Name** set to **Core** in the alarms/events list. 800xAPMB-OL-5100-010	This problem has been corrected.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
Batch Management recipe blocks do not properly record the start and end times to the production data log (PDL) when the following block types are executed multiple times within the same recipe execution. Recipe procedure Unit procedure Exception procedure Operation Phase Transition BMA (containing messages) Compute Command Data collect Acquire Release Select Deselect Reserve Unreserve 800xAPMB-OL-4102-010 800xAPMB-OL-5100-011 Product Bulletin: 3BUA001240	Batch Management has been corrected to accurately record the start and end times of all blocks to PDL.
Object properties dialog can not open by double click from PFC Editor. 800xAPMB-OL-5100-012	This problem has been corrected. Double click opens the object properties dialog from the PFC Editor.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
User could not approve a procedure, if the number of existing approved procedure exceeds certain limit. 800xAPMB-OL-5100-013	The limitation has been removed.
The data stored by PDL collector for exception recipes are misaligned and producing improper events. 800xAPMB-OL-5100-014	This problem has been corrected. The PDL collector stores data for exception recipes properly.
Users can not load Batch Advanced phases system extension successfully in System Version 5.0 SP2 Rev A systems. Important 800xAPMB-OL-5100-015	This problem has been corrected.
Loading **Batch Advanced Templates** system extension throws an Import/Export error as, **The Batch Graphics Extension system extension is missing**. 800xAPMB-OL-5100-016	This problem has been corrected. Loading **Batch Advanced Templates** system extension does not throw any Import/Export error.
A licensing warning message will occur in Batch Management System Version 5.0 SP2 RU2 and newer revisions for those users that are not licensed for Batch Advanced Phase Templates. This is happening regardless of the controller type configured. 800xAPMB-MS-5024-002 800xAPMB-OL-5100-017	Licenses are now properly checked.
Dynamic labels are not supported in the Batch Overview Window. Important 800xAPMB-OL-5100-018	Dynamic labels are supported in the Batch Overview Window.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
After the successful restart of the primary and secondary batch servers, the **Secondary failed** alarm stays active even after it is acknowledged. 800xAPMB-OL-5100-019	This problem has been corrected.
OPCCmd phase driver does not support the phase running with error state. Important 800xAPMB-OL-5100-020	For certain cases, OPCCmd phase driver allows the phase to run with an error. It also indicates that the specific phase is running with error.
Phase parameters configured as type STRING, which contain the characters "<", ">", and "&" cause the phase block get into the following error condition: *PCmdPhaseSequence Subscription* *[name A]::IssueStartCommand(name B)"* *WAIT_TIMEOUT: waiting for response* This condition is seen in both DCI and MOD 300 phase drivers. Product Bulletin: 3BUA001514 800xAPMB-OL-5023-002	This problem has been corrected. Phase parameters configured as type STRING, can have characters such as "<", ">", and "&".

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
The Batch Overview fails to open when an active block in the production batch recipe includes a dynamic label with extra new lines. This problem is not isolated to any one version of Batch Management. Example of configuration that will cause the issue: Label: Step 30: `"R232"` Maintain contents at 22°C. <- new line <- new line Important 800xAPMB-OL-5024-003	New line entries will no longer cause this problem.
OPC points sourced by the Batch Unit Aspect and displayed on graphics are not properly shutdown when exiting from the graphic. This is causing the Plant Explorer to start using 100% of the CPU. Important 800xAPMB-OL-5024-004	This problem has been corrected.
Program is Not Responding when restarting a phase after a Stop. Important 800xAPMB-OL-5012-008	This problem has been corrected.
When interfacing with Melody controllers, the Continue At Next command currently advances the batch while the Protection STP is set. Important 800xAPMB-OL-5012-007	This problem has been corrected.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
Batch Management currently displays commands in the Block Status dialog (state combination box) which may not be applicable for the current state (e.g., Abort for a running phase). 800xAPMB-OL-5012-006	This problem has been corrected.
Cannot acknowledge or clear a secondary batch server alarm after the server is successfully restarted. 800xAPMB-OL-5023-001	Batch Management has been corrected to allow the secondary batch server alarm to be acknowledged or cleared.
Running a recipe that contains a block whose expression is empty, full of empty spaces, or is commented out causes the Batch Management servers to fail. 800xAPMB-OL-5020-050 Product Bulletin: 3BUA001301	The application that interprets expressions has been corrected to prevent Batch Management servers from failing when these types of expressions are encountered.
When executed, PFCs that use dynamic parameter values in block labels can cause the 800xA workplace to stop functioning. Important 800xAPMB-OL-5020-058 800xAPMB-OL-5020-062 Produce Bulletin: 3BUA001490	Batch Management has been corrected to handle the block labels that display dynamic parameters values.
Batch Management is sometimes reporting that interlocks are in one state when they are actually in another state. 800xAPMB-OL-5021-007	Batch Management has been corrected to stay updated as interlock states changes.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
A phase that has the Start Inhibit interlock set cannot reliably be aborted. Important 800xAPMB-OL-5020-056 800xAPMB-OL-50201-005 Produce Bulletin: 3BUA001418	Batch Management has changed how the Start Inhibit interlock is handled. Previously, phases that have the Start Inhibit interlock set would automatically start executing after disabling the Start Inhibit interlock. Now, Batch Management aborts (while starting) phases that have the Start Inhibit interlock set. Manual or programmatic intervention is required. Manual intervention can include actions such as clearing the interlock and restarting the phase, continuing execution at the next block, and aborting the whole recipe. Programmatic intervention can include exception procedures that utilize functions such as ex_abort and exkill. For more information, refer to the Actions, States, and Special Exception Handling Functions topics in Section 4 Procedure Function Charts of the *System 800xA Batch Management Operation (3BUA000145*)*.
When a phase is executed manually and then returned to the automatic mode (without first resetting the phase), the phase will not be executed properly the next time a recipe tries to use the phase. The phase briefly generates an alarm and proceeds without performing the phase. The recipe appears to have executed with no problems. 800xAPMB-OL-5021-006	The phase is now reported as aborted with error allowing the operator to start the phase at the beginning or continue to the next phase of the recipe.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
An 800xA for DCI batch phase goes into abort status if the logic in the phase tries to use an equipment (unit) alias name that is not identical to the actual equipment name. 800xAPMB-OL-5020TC1-001	Batch Management has been corrected to properly handle equipment alias names in 800xA for DCI systems.
The Faceplate, User Display, and Aspects context menu items are missing after a phase completes (or is stopped) AND the PFC window is refreshed or reopened. The corresponding buttons in the Block Status window of the phase are available and function correctly. 800xAPMB-OL-5012-001	This problem has been corrected.
If a phase is in the Idle state, the Aspects button in the Block Status window is disabled however all the context menu items in the PFC window are available. 800xAPMB-OL-5012-002	This problem has been corrected.
If a recipe is in a Stopped State and you Terminate the whole recipe on Top Level, the Recipe remains in a bad state (incorrect state) after a certain amount of time. Important 800xAPMB-OL-5012-009	This problem has been corrected.
Batch Management currently allows a batch to be Terminated when one or more phases are in the Stopped state. A Program Not Responding window may appear following this command and/or a long delay to execute the command. 800xAPMB-OL-5012-011	This problem has been corrected.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
Events and alarms generated by phase, shared equipment module, and equipment (unit) objects have the name of the object set to core and no faceplate is available. 800xAPMB-OL-5011-019	Batch Management has been enhanced to accurately report the name of the object generating the alarm or event. allowing the appropriate faceplate to be used.
Changes made to the equipment attributes of an equipment type (Batch Equipment aspect in the Object Type Structure) are not reflected in the corresponding control module instance in Control Builder. This inability to synchronize types with instances generates an error. Important 800xAPMB-OL-5010-036 800xAPMB-OL-5010-040	This problem has been corrected.
Phases can be unexpectedly aborted when they are controlled from both the Batch Management and the faceplate. Refer to the following example: 1. A batch recipe is started which in turn starts the phase. 2. Batch Management is used to hold, pause, or stop the phase. 3. The faceplate is used to place the phase in manual mode, restart it, and place it in automatic mode. 4. The phase is aborted. 800xAPMB-OL-5020-060	Batch Management has been corrected to allow phases to be controlled alternately from both Batch Management and faceplate.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
The Equipment Overview window can display incorrect Batch IDs in the Batch ID - Controller column. This occurs when equipment is released from the faceplate of the equipment. Important 800xAPMB-OL-5020-021	This problem has been corrected.
The power math operator (^) and floor system function cause a runtime error when used in user defined Batch Functions or directly in computations in Batch PFCs. Important 800xAPMB-OL-5020-048 800xAPMB-OL-5020-049 Product Bulletin: 3BUA1300	The expression evaluation logic has been corrected to eliminate these failures.
Expressions added to the Destination column of a phase parameter cannot be deleted even though it is initially removed from the Phase Operation Assignment window. 800xAPMB-OL-5020-052	The logic for evaluating expressions in the Phase Operation Assignment window has been corrected to completely remove the expression.
Certain MOD Phase errors (TCL pause and some MOD abnormals) sent to Batch Management cause Batch Management to change the phase state to aborted with error but the actual phase continues to execute correctly. 800xAPMB-OL-5020-051	Batch Management has been corrected to allow the phase to continue running with the error (instead of going to the aborted with error state) when these specific errors are encountered.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
Batch Management recipe execution can stop on a MOD300 phase. This happens when exception logic issues an abort command to the MOD300 phase just as it is completing. 800xAPMB-OL-5020-054	Batch Management has been updated to correctly handle the abort command (abort the MOD300 phase if the MOD300 logic is still executing or not abort the MOD300 phase if the MOD300 logic is in the final steps of completion but this has not yet been reported to the MOD300 phase).
Scheduling a batch (of a unit procedure) using the **Duplicate** button in the Batch Schedule window generates an `Error 91: Object variable or With object variable not set` error message and the batch is not scheduled. 800xAPMB-OL-5020-030	This problem has been corrected.
Trying to run or check a procedure that contains Equipment List Type parameters whose default value was deleted from the Equipment Group generates the following error message: `(Warning) The equipment list parameter `*`parameter_name`*` has an equipment that could not be found in the system. (The GUID of the missing equipment is `*`equipment_name`*`.)` 800xAPMB-OL-5020-029	This problem has been corrected.
Changing an unscheduled batch recipe (Unscheduled in the Scheduled Status field of the Batch Status window) to Scheduled AND specifying a new start time causes the recipe to start immediately (the default start time). Important 800xAPMB-OL-5020-026	This problem has been corrected.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
Equipment faceplate state buttons are not available when the equipment has been acquired by Batch Management. 800xAPMB-OL-5010-037	When using AC800M controllers, an Equipment Commands tab containing state buttons **(Start,** Pause, Hold, Stop, Abort, Resume, Restore, **Restart, and Reset)** has been added. The appropriate buttons are available when the equipment is acquired.
If the access level of a phase parameter that contains no expression is changed, the phase will not execute. 800xAPMB-OL-5010-038	Batch Management has been corrected to allow the changing of access level in these cases.
While performing an online (runtime) recipe edit, if the running recipe (that contains an exception procedure) completes before the online recipe edit session is completed, Batch Management may fail. Important 800xAPMB-OL-5021-001	Batch Management has been corrected to prevent failure when the online (runtime) recipe edit session is completed.
The Plant Explorer is not handling multiple instances of the batch overview open within the same Plant Explorer Workplace. Symptoms of this problem include screens not refreshing or data loss (partial or all) on the batch overview windows. 800xAPMB-OL-5022-007 Product Bulletin:3BUA001555	This problem has been corrected.
An 800xA for DCI batch phase goes into abort status if the logic in the phase tries to use an equipment (unit) alias name that is not identical to the actual equipment name. 800xAPMB-OL-5010-041 800xAPMB-OL-5022-002	Batch Management has been corrected to properly handle equipment alias names in 800xA for DCI systems.

Table 172. Operational Issues (Continued)

Issue	Correction or Fix
If a dual log configuration is used on dual IM nodes, a report on the second IM node will fail if the first IM node is down. Important 800xAPMB-OL-5010-042 Product Bulletin:3BUA001543	This issue has been corrected. Reports will run correctly when dual IM configurations are used.
Scheduling a recipe procedure that contains a subprocedure that does not have an approved version causes an error message to appear (Batch start failed: <batch_id>) and the scheduling to fail. Important 800xAPMB-OL-5010-024	The correct error message is now generated when a subprocedure is not approved.
A seemingly random window comes to the forefront after a Batch Parameters window is opened from the Batch Schedule window (using the Parameters button) and then closed. Important 800xAPMB-OL-5010-027	This problem has been corrected.
The Batch_Proc **In Use** value does not count the number of approved procedures. Important 800xAPMB-OL-5010-029 800xAPMB-OL-4105-011	The number of approved procedures is no longer a licensable quantity.
After running the Consistency Checker tool, the warning ***Broken reference to*** appears in the Description column. The corresponding Source column contains the message ***[user_object_type]:MainFaceplat***. Important 800xAPMB-OL-5010-017	This problem has been corrected.

Table 173. Instruction Manual Corrections

Instruction	Correction or Fix
Default faceplate selection procedure is not explained in *Industrial^IT, 800xA - Production Management, Batch Management - Configuration instruction (3BUA000146R5021).* 800xAPMB-MC-5021-003	Added the following topic after and at the same level as the Manage Batch IDs topic: **Default Faceplate Selection** To select the faceplate (MainFaceplate or MainFaceplateAlt) that is displayed by default, the users Default Precedence List should be updated as follows: 1. Select the Library Structure\Precedences and Customizations\Aspect Precedence List\Default Precedence List, Aspect Precedence List aspect. 2. Click **Add** and select Aspect Key in the Class field. 3. Select the batch equipment faceplate that is to be displayed (by default) and click **OK**. 4. Use the arrow buttons to move the newly created key to the top of the list. 5. Repeat Step 2 through Step 4 for the batch phase faceplate that is to be displayed (by default).
The *Industrial^IT, 800xA - Production Management, Batch Management - Operation (3BUA000145R5021)* instruction contains incorrect information about the Equipment Information window. 800xAPMB-MC-5021-002	Replaced the first paragraph under Equipment Attributes Tab with the following: The equipment information window also contains an Equipment Attributes tab used to access the window shown in Figure 55. The equipment attributes, their values, engineering units, description, high and low limit (if applicable), and access level will be displayed.

Table 173. Instruction Manual Corrections (Continued)

Instruction	Correction or Fix
The *Industrial^{IT}, 800xA - Production Management, Batch Management - Operation (3BUA000145R5022)* instruction does not contain information about the Equipment Commands tab of the Equipment Information window. Important 800xAPMB-MC-5020-059	Added the following information after the Equipment Attributes Tab topic (on page 133). **Equipment Command Tab** The equipment information window also contains an Equipment Commands tab used to command the batch manager to change the state of acquired when AC 800M controllers are being used. This tab lists the name, mode, and current state of the equipment. Clicking **Start, Pause, Hold, Stop, Abort, Resume, Restart, Reset, or Release** causes the batch manager to perform that action on the equipment. These buttons function in the same manner as those found on equipment faceplates.
The fpbevtfile function needs to be removed from the *Industrial^{IT}, 800xA - Production Management, Batch Management - Configuration instruction (3BUA000146R5021)*. This function is no longer supported. 800xAPMB-MC-5012-002 Product Bulletin 3BUA001295	Documentation of the fpbevtfile function has been removed from the Log Configuration appendix because this function tries to retrieve event data from the Batch Management database which no longer contains event data. Use Information Management functions to save and retrieve event data.

Table 173. Instruction Manual Corrections (Continued)

Instruction	Correction or Fix
The *Industrial^IT, 800xA - Production Management, Batch Management - Configuration (3BUA000146R5021)* instruction needs to state clearly that only control module instances for batch equipment that is actually being used should be added (made active). Instances of control module types that fail to connect or are disconnected still consume CPU resources which can degrade performance significantly. These instances should be made inactive. Important 800xAPMB-MC-5011-018	The following has been added to the documentation: Use only the control module instances that are required. Instances that fail to connect or become disconnected (caused by bad OPC quality or the controller through which the equipment communicates becoming unavailable) consume CPU resources which can effect performance. Make disconnected instances inactive (refer to Inactive Equipment on page 134) to prevent unnecessary CPU resource consumption.
The rcpexec function in Table 50 of the *Industrial^IT, 800xA - Production Management, Batch Management - Configuration instruction (3BUA000146R5021)* needs further explanation and an example to detail a missing syntax requirement. 800xAPMB-MC-5010-036	The following note has been added to Table 50 and associated with the rcpexec function: All arguments used in the rcpexec function must evaluate to a text string and be enclosed in quotation marks. For example, rcpexec("RcpExec1", "Num1", "2", "Str1", "\"xyz\"")

Table 173. Instruction Manual Corrections (Continued)

Instruction	Correction or Fix
The Assigning Values and Evaluating Expressions From a PFC topic in *Industrial^{IT}, 800xA - Production Management, Batch Management - Configuration (3BUA000146R5021)* needs to state that the rcpexec function will not function correctly when used in a looping structure within a procedure.) Important 800xAPMB-MC-4102-009	The following paragraph has been added to the end of the Assigning Values and Evaluating Expressions From a PFC topic: However, a compute BMA containing the rcpexec function is not for use within a looping structure configured into a procedure. In a looping structure, the rcpexec function will call the procedure correctly the first time through the looping structure but subsequent executions of the compute BMA will not call the procedure. The method for calling procedures from within a loop is to use a command BMA containing the batch_sbatch command to call procedures. Refer to batch_sbatch on page 299 for more information.

Table 173. Instruction Manual Corrections (Continued)

Instruction	Correction or Fix
The description of the Unit Active equipment property (in Table 39) needs to be changed in *Industrial^{IT}, 800xA - Production Management, Batch Management - Configuration (3BUA000146R5101).* Important 800xAPMB-MC-5020-013	The following description has been added for Unit Active: Specifies it the equipment is activated for use by Batch Management. If this option is disabled, the equipment will not be available nor will Batch Management try to connect to it. The equipment will also not be included in the Equipment Overview window. A Batch Unit Activation aspect is available in the Library Structure under Batch Management/Configuration. Restart the Batch Management Server after changing the setting of this option. This option is used to deactivate equipment that is defined in the system but will not be loaded into a controller or needed for Batch Management execution in the near future. This option is primarily used for long term deactivation of equipment during testing and commissioning scenarios. In a Production Environment, Batch Management equipment can be temporarily disabled in the Equipment Information window available from the **Equipment Overview** window.
The *Industrial^{IT}, 800xA - Production Management, Batch Management - Operation (3BUA000145R5022)*, additional information has to be added in the **Conditions** sub-heading regarding the **breakpoint reached** condition. 800xAPMB-MC-5020-041	The below content has been added in the manual at the end of the breakpoint reached discussion: The **breakpoint reached** indicator takes precedence over the **breakpoint set** indicator (due to the fact that they share the same space). If the breakpoint is removed while the block is in breakpoint reached state, change to breakpoint set indicator is not visible. Once the block is started, the breakpoint set indicator is shown correctly as unchecked.

Section 18 Information Management

This section details the Fixed Problems for Information Management that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Operation

Table 184 lists the major system or product operational issues that have been corrected since the previous version or service pack. A brief description of the correction has also been given wherever possible.

Table 173Operational Issues

Issue	Correction or Fix
Calculations would fail when they contained MOD 300 properties. Important 800xAINM-OL-5102-107	This problem has been corrected.
DataDirect does not return values for log data of type integer. The target cell that should contain the integer data is blank after the report has been run. Important 800xAINM-OL-5103-037	DataDirect has been updated to properly process integer values.

Table 173Operational Issues (Continued)

Issue	Correction or Fix
IM History would not start after an OPC messages log was restored to Oracle more than 25 times. Important 800xAINM-OL-5100-108	This problem has been corrected.
IM History would incorrectly take additional numeric log licenses when a template contained more than one IM log that was collecting from the same PPA OPC log. This would result in license warning for the customer when there were not in violation. Important 800xAINM-OL-5101-109	This problem has been corrected.
When a PDLMSGLOG or IMMSLOG have stored between 999,999,999 and (999,999,999 + log capacity) messages, any timed archives will loop until the archive volume is full and then fail. Important 800xAINM-OL-5025-111	This problem has been corrected.
Information Manager fails to store values for Batch Phase Parameters of type Out or InOut, if the parameter name is in excess of 30 characters in length and the PDL database is in excess of 10 million records. Important 800xAINM-OL-5123-116	This problem has been corrected.

Table 173Operational Issues (Continued)

Issue	Correction or Fix
Batch looping recipes that loop more than 999 iterations would result in the failure to store Production data (PDL). Important 800xAINM-OL-5024-102	Information Manager still does not support loops in excess of 999 iterations. However, Production data storage has been updated so it will not crash if the limit of 999 loops is exceeded. See, the document *3BUF001091-600_en_System_800xA_Information_Management _6.0_Getting_Started*: *Section 6 Batch Integration; Looping Recipe Limitations*, for a description of how this issue is now handled.
The AUDIT_EVENTS database view did not return correct data. The data returned in the various columns in the view was not for the expected attribute. Important 800xAINM-OL-5103-116	The AUDIT_EVENTS database view has been corrected to return the proper attribute data in each column.
The hsAdmin service failed to start on an Information Manager Server after configuring the machine to support Cyrillic. Important 800xAINM-OL-5102-113	This problem has been corrected.
The batch_auditevents view was missing the attribute ObjectName. Important 800xAINM-OL-5022-105	ObjectName is now included in the view.
The Bulk Import tool sometimes fails to retrieve all properties for the selected objects. Important 800xAINM-OL-5123-115	This problem has been corrected.

Table 173Operational Issues (Continued)

Issue	Correction or Fix
PDL Batch Procedure Extractor returns an error during extraction and export process and failed to export the Batch Procedure. Important 800xAINM-OL-5123-115	A problem was found in the comparison of the dataset returned and caused the PDL batch Procedure Extractor to fail to export the Batch Procedure. This problem has been corrected.
ODA did not support update commands to write data into the 800xA System on ODA table columns that are marked as modifiable. 800xAINM-OL-5104-117	The problem has been corrected.
Making any configuration change to the Email Information dialog box, in a scheduled report, would result in the Attachment Format setting being cleared. 800xAINM-OL-5104-118	This problem has been corrected and the Attachment Format setting is now retained.
DataDirect would return an overflow error if more than 24855 rows of data were attempted to be returned from a history log. 800xAINM-OL-5104-119	The problem has been corrected. DataDirect will now return up to 32767 rows of data, which is the documented maximum number of rows.

Table 173Operational Issues (Continued)

Issue	Correction or Fix
Scheduled reports would on occasion successfully complete but the Excel process that generated the report would delete the temporary files it created from the disk. After a period of time the growing number of temporary files could fill the disk and impact the performance of the scheduler node. 800xAINM-OL-5104-120	The scheduler has been modified to clean up any temporary Excel files that are left behind.
Scheduled reports would on occasion successfully complete but the Excel process that generated the report would not exit. After a period of time the growing number of Excel processes remaining in memory would impact performance on the scheduler node. 800xAINM-OL-5025-112	The scheduler has been modified to monitor Excel to make sure it exits properly. If Excel does not exit after report completion the Scheduler will terminate it.
On occasion ODA queries would fail without apparent reason. The underlying ODA service would crash and restart. This was caused by a memory corruption. 800xAINM-OL-5104-121	This problem has been resolved.

Fixed in 800xA 5.1 Revision D

Table 173, Table 174, and Table 175 lists the Installation, Configuration, and Operation issues that have been corrected in Information Management 800xA 5.1 Revision D.

Table 173. Installation Issues

Issue	Correction or Fix
Oracle CPU (Critical Patch Update) can fail when if any of the Oracle DLL's are locked by another running process. When this happens the Oracle CPU installation is to pause and display an error message to allow the user to find the process locking the Oracle DLL's and stop it so that installation can complete correctly. The Oracle CPU installation program was not pausing properly. It was instead allowing Information Manager processes to restart making it impossible to isolate the process that was blocking the CPU installation. Important 800xAINM-IN-5103-037	The Oracle CPU installation program has been updated to properly pause so that the user can identify and stop the process or processes that are blocking proper Oracle CPU installation.

Table 174. Configuration Issues

Issue	Correction or Fix
In rare circumstances **hsDBmaint - stagger** can crash. The crash is related to memory usage and only occurs when processing a very large number of logs. Important 800xAINM-CN-5103-039	This problem has been corrected.

Table 175. Operational Issues

Issue	Correction or Fix
When filtering data using a System 800xA Operator Event Aspect, or DataDirect Event Retrieval dialog from the Information Manager Message Log by Time and Object Name the user may see unexpected results. There may be duplicate or missing events. All data is properly stored and no data is actually duplicated or lost. There was an error in the algorithm that retrieves the data from the message log resulting in the unpredictable results. Important 800xAINM-OL-5023-007	The Message Log retrieval processing has been corrected so messages are no longer duplicated or missing.
Event collection stops and the hsMSGServer process restarts constantly. The hsMSGServer process crashes when the stack memory is exhausted by a large number of OPC/AE attributes that are defined in the system. Important 800xAINM-OL-5023-006	This problem has been corrected by using stack independent memory methods to process all the OPC/Attributes.
Information Manager 5.1 Revision B in combination with any Feature Pack fails to store Condition Events (Alarms). An error message indicating that this problem is being seen can be found in the System Event List. The error message produced is of the following format: Events of Category (CategoryName) will not be collected because of a definition error. Important 800xAINM-OL-5103-036	This problem has been corrected.

Table 175. Operational Issues (Continued)

Issue	Correction or Fix
When archiving Batch PFC data, as part of PDL archival, if an Archive volume became full the Archive System would fail to automatically switch to the next available archive volume. Important 800xAINM-OL-5101-038	This problem has been corrected. Archive volumes now properly switch in this situation.
Scheduler Data Collection Actions would fail, with an error message **Failed to Activate Log Number(s)**, if any of the logs in the Log List were from anything other than an AC400 controller and contained a period (".") in the log name. Important 800xAINM-OL-5104-042	The Action Aspect has been updated to properly handle logs with embedded spaces. This is still an issue for AC400 properties.

Fixed in 800xA 5.1 Revision B

This lists the Installation, Configuration, and Operation issues that have been corrected in Information Management 800xA 5.1 Revision B.

Installation

Table 176 lists the Installation issues in 5.1 Revision B.

Table 176. Information Management Installation

Issue	Correction or Fix
Oracle Client install does not install Oracle for OLE/DB. Important 800xAINM-IN-5103-013	This problem has been corrected. New installs of the Oracle client now include the Oracle OLE/DB provider.

History Services

Table 177 and Table 178 lists the fixed History Services Configuration and Operation issues in 800xA 5.1 Revision B.

Table 177. History Services Configuration Issues

Issue	Correction or Fix
Ability to filter events coming into IM based on Event Attributes like Message text, Category, priority level. Important 800xAINM-CN-5103-031	Changes made allows the user to specify the filter criteria to be used during message collection. Configuration steps are explained in the *Creating an Inform IT Event Filter* section of *System 800xA Information Management Configuration (3BUF001092*)*

Table 178. History Services Operational Issues

Issue	Correction or Fix
Scheduled Message log archiving goes into infinite loop filling up archive volumes. This happens when DCS MessageLog and IM/PDL Message Log created in respective order are grouped by reference into a single group for archiving. Important 800xAINM-OL-5103-001	This problem has been corrected.
IM Event Log collection stops when a Message Category is defined with an unsupported event Attribute type. Important 800xAINM-OL-5026-004	IM Event Log collection will now discard any attributes it receives that are of unsupported data types and continue normal operation.

Table 178. History Services Operational Issues (Continued)

Issue	Correction or Fix
When 800xA Diagnostics Collection Tool [DCT] is used to collect diagnostics data for **Task Manager** plug-in; on a IM node, History Services end abruptly. Similar behavior is observed when Information Management Performance Counters are added into Performance monitor tool to monitor IM processes. Important 800xAINM-OL-5103-003	An improper calling convention in a function declaration of Microsoft's tool [ctrpp.exe] generated Performance counters implementation was causing this issue. This has been fixed now.
Restoration of PDL data from an archive can fail because, in a batch recipe, it is possible to have a campaign name that is the same as that of a Batch in its own or another campaign. Important 800xAINM-OL-5103-004	This problem has been corrected.
Restoring of PDL archives would fail when the Batch PFC blob data in the Archive files are greater than 65535 bytes. Important 800xAINM-OL-5103-005	This problem has been corrected.
In Scheduling Structure, running Consistency Checker against **Schedules and Jobs** object fails with **Broken reference... error** for Alarm and Event List aspect. Important 800xAINM-OL-5103-007	Reconfigured the Alarm and Event List aspect by providing the missing configuration settings. This issue has been fixed.

Table 178. History Services Operational Issues (Continued)

Issue	Correction or Fix
The Archive Service can become unresponsive. The problem has been observed after modification to the archive configuration, extensive publishing of archived media and as a result of automatic scanning of archive groups configuration. The problem exhibited itself in the following ways, failing to return published data for applications (Trends and Reports), timed archives fail consistently, the archive aspects return errors for most operations, and the Archive Service Log file will have error messages indicating memory > 4GB is going to be unmapped or an *unhandled exception* error. After a restart, the problem typically does not return immediately. Important 800xAINM-OL-5103-009	The uninitialized memory can cause the wrong amount of a memory mapped file to be unmapped. The frequency of this problem is random and depends on the values of the uninitialized memory. The memory is now correctly initialized, hence preventing this problem.
Any application that connected directly to the Information Manager HDA (Historic Data Access) interface and issued a browse request, would cause the Information Manager HDA Server (hsHDAServer) to crash. This was not a typical scenario as applications more often connect to the 800xA Basic History HDA server. Important 800xAINM-OL-5101-011	This problem has been corrected.
hsBackupApp would fail after the name of an IM log was modified on the system. Important 800xAINM-OL-5103-012	This problem has been corrected. The tool is now independent of name changes.

Table 178. History Services Operational Issues (Continued)

Issue	Correction or Fix
A given tag can have more than one Log Configuration aspects and when there are number of such tags, the History Importer Tool crashes while unassigning the numeric logs of these kind. Important 800xAINM-OL-5103-015	This problem has been corrected.
The **HsBackupApp** is for setting the value of **OPCHDA_AGGREGATE** attribute as OPCHDA_INTERPOLATIVE for IM numeric logs created with hsINSTANTANEOUS calculation algorithm. This prevents the SEAMLESS retrieval of data from it. Important 800xAINM-OL-5103-016	The value of **OPCHDA_AGGREGATE** attribute is corrected to **OPCHDA_NOAGGREGATE** for **hsINSTANTANEOUS** calculation algorithm logs which fixes the issue of SEAMLESS retrieval of Data.
IM template and IM logs do not display log set and archive groups if the reference objects are deleted. The values remain set on the logs and prevent logs from being created or updated. Important 800xAINM-OL-5103-026	IM template and IM logs now display **"(INVALID)"**, before any log set or archive group that has been deleted and is still referenced. This issue has been fixed.
IM controls on History Log Template take 30 to 40 seconds to display on first call-up and around 7 seconds thereafter.Important 800xAINM-OL-5103-027	This problem has been corrected.
When the consistency checker is executed on the administration structure, the afwAction Aspect would generate an error. Important 800xAINM-OL-5103-034	This problem has been corrected.

Calculations

Table 179 lists the fixed Calculations Operation issues in 800xA 5.1 Revision B.

Table 179. Calculations Operational Issues

Issue	Correction or Fix
Scheduled Calculations could execute more times than expected, due to a timing issue in the Calculation server that could allow the calculation to be scheduled twice in the same second. Important 800xAINM-OL-5103-006	This problem has been corrected.
Including a special character '-', a period in the item name of an IM log, prevents the Scheduler from activating the IM log using a Data Collection Action in the Action Aspect of the Job Description. 800xAINM-OL-5103-019	This problem has been corrected.

Open Data Access

Table 180 lists the fixed Open Data Access Operation issues in 800xA 5.1 Revision B.

Table 180. Open Data Access Operational Issues

Issue	Correction or Fix
When configuring Report Action in Scheduler to email reports, if **Message** field in the **Email Information** dialog is left blank, then attached Excel file becomes unreadable when it arrives in the email. Important 800xAINM-OL-5103-002	This problem has been corrected.
Batch events that contain single apostrophes fail to be stored in the IM Database. These type of events are generated when a single quote is used in a Batch recipe. Important 800xAINM-OL-5025-007	During PDL Data storage, PDLStrings from Batch events are checked for single apostrophes and updated with an additional quote for successful storage and restoring of archived PDL data into the IM Database.This handles usage of single apostrophes in the Batch recipe.
Using the INSERT or UPDATE command against the NumericLog table of ODA returned an error stating that the function was not supported. 800xAINM-OL-5101-014	This problem has been corrected.
The **LongMessage** attribute has been added to the Batch_AuditEvents view to make the LongMessage data available for Batch reports.Important 800xAINM-OL-5103-017	This enhancement has been added.
The **LongMessage** and **XMLData** fields in the Batch_ProcessEvents, Batch_Events, and Batch_AuditEvents views were not long enough to contain the required data.Important 800xAINM-OL-5103-018	This problem has been corrected.

Table 180. Open Data Access Operational Issues

Issue	Correction or Fix
Batch recipes which store task variables to PDL within a loop can cause the PDL storage to fail if the loop is executed so many times that memory is exhausted. 800xAINM-OL-5103-021	The maximum number of variable occurrences is now limited to 65535 to prevent PDL storage failures. If the number of variable occurrences exceeds the limit, the user is notified through a system event to update the recipe configuration to avoid this issue. Once the limit is exceeded no further variable occurrences are stored until the issue is resolved.
Users were having problems locating the IM provided Tables and Views in Crystal Reports.Important 800xAINM-CN-5103-024	The Information Manager user documents have been updated to resolve this issue.
DataDirect is unable to retrieve restored PDL data due to ODA. Important 800xAINM-OL-5103-028	This problem has been corrected.
The **genericda** database view was not being created during product installation. Important 800xAINM-OL-5103-032	This problem has been corrected.

Desktop Application

Table 181 lists the fixed Desktop Applications Operation issues in 800xA 5.1
Revision B.

Table 181. Desktop Applications Operational Issues

Issue	Correction or Fix
In the Display Services text and multitext boxes, excess data writes over the boundaries of the text and multitext box. 800xAINM-OL-5101-016	This problem has been corrected and the text and multitext boxes do not exceed the boundaries.
When the Client License Server (CLS) is down, access to the ODBC data is not available through DataDirect from a non-800xA client node. Important 800xAINM-OL-5103-010	This problem has been corrected. Now, ODA and Display Services work with temporary license if the CLS server is unavailable or is down.
Display Services fail to reconnect to ABB Client license provider if the license provider is restarted. This results in licensing errors in client tools like DataDirect. Important 800xAINM-OL-5103-011	This problem has been corrected.
In the Display Services Trend drawing, the trends exceed the high and low limits of the Y-axis. 800xAINM-OL-5101-015	This problem has been corrected and the trends do not exceed the limits.
Desktop Trends with eight traces has a log period of eight hours. Within several minutes, it results in a pop-up window stating that SubscribeLM has failed. It is possible to click OK, but within a minute or two, it results in another pop-up window. 800xAINM-OL-5025-006	This problem has been corrected.

Table 181. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
Data Direct is not showing History Association for PDLs that have been deleted from the Runtime data space but restored to the Restored data space. The internal Data Direct code that accesses the PDL History Association data was not looking at the check box to see if it needed to access archived data. It only looked at the data in the runtime space. Therefore it would show the data, even if the archive data check box was set, only until the data was deleted from the runtime space. 800xAINM-0L-5025-004	The data direct code is corrected for History Associations to act as all other data type acted, and if the **archive data** check box is set, the same query is run against the restored tables for archived data instead of the runtime tables.
Due to the missing registry entries in the DataDirect installation, the uninstallation of DataDirect on Windows XP operating system can generate an error such as *Object not Found* or *License Information Missing*. In previous version, once this error is seen, it will always occur on uninstall. 800xAINM-OL-5103-014	The DataDirect installation has been corrected and new installation will no longer have this problem. During upgrade from previous versions, it is possible to see these errors. The uninstall error(s) can be ignored and the new version will install correctly.
Display Services - dcssub() do not work with data types of VT_UI2 format. This means that the AID displays do not show OPC data from properties that are VT_UI2. 800xAINM-OL-5103-014	This problem has been corrected.
DataDirect fails to find restored PDL messages. Important 800xAINM-OL-5023-005	This problem has been corrected.

Table 181. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
Industrial IT event presentation and functions do not support millisecond output. Important 800xAINM-OL-5103-023	This problem has been corrected. A new function *TimeFormat* has been introduced to implement the millisecond output for Alarm and Events Function of Datadirect. The millisecond option is available only for the standard times of Active Time, Event Time and Acknowledge Time.
All synonyms are not created when the 800xA Service account has hyphens or spaces in the name. This can prevent Adva Inform display requests against the ADO provider from retrieving data from Oracle. Important 800xAINM-IN-5103-025	This problem has been corrected.
Using a DataDirect license from a newer version of software that is installed does not work. A newer license should have worked with an older software. Important 800xAINM-OL-5103-033	This problem has been corrected.
Wrong time format in DataDirect and Alarm and Events reports. Important 800xAINM-OL-5103-035	This problem has been corrected.

Fixed in 800xA 5.1 Revision A

Table 182, Table 183, and Table 184 lists the Installation, Configuration, and Operation issues that have been corrected in Information Management for 800xA 5.1 Revision A.

Table 182. Installation Issues

Issue	Correction or Fix
Oracle Wizard does not run on combined IM/domain controller. Important 800xAINM-IN-5101-001	The utility correctly handles a local domain controller.
The DataDirect add-in would fail to load in an account that was not part of the Administrators group. This problem was the result of a folder access problem. 800xAINM-IN-5101-006	This problem has been corrected.

Table 183. Configuration Issues

Issue	Correction or Fix
In a batch recipe procedure, it is possible to have a campaign which has the same name of a batch in its own or another campaign. This causes automatic deletion of PDL to fail. 800xAINM-CN-4111-001	In IM, Campaign and Batch are defined to have "levelnumber" 0 and 1 respectively. Earlier only Campaign name was used to search and delete the PDLs, now an additional condition of "levelnumber = 0" is included into the search criteria during PDL deletions thus overcoming the ambiguity of name duplications at campaign and Batch levels.

Table 184. Operational Issues

Issue	Correction or Fix
Distributed datasources with a **-D** in the accessName fails to activate. Important 800xAINM-OL-5025-001	The datasource is correctly parsed and only the last **-D** in the string is evaluated as a distributed datasource allowing the log to activate correctly.
In multiple CPU systems with a high OPC load, the IM HDA server can crash because the access to an internal data structure is not protected for multiple thread access. 800xAINM-OL-5025-002	A proper protection has been added to prevent the access violation.
When a time is returned from basic history that is in the future, an error is generated that is not reset.This prevents the log from collecting until the log is reactivated or the node is restarted. Important 800xAINM-OL-5025-003	The error condition is properly handled.
When restoring a backup with composite reports to a new mount point, the restore fails or it incorrectly modifies the report entries with the wrong path. Important 800xAINM-OL-5020-059	The restore now handles Windows 2008 and newer file system paths when a new mount point is specified.
hsDBMaint -checkDB and hsDBMaint -CheckItemIDs return errors. The tools cannot correct the errors. Important 800xAINM-OL-5024-005	The tools were updated to correct the problem Log Configuration aspects.The problem was caused by creating an IM dual Log Configuration by copying a reference Log Configuration aspect with SV 5.0 software older than SV 5.0 SP2 Rev B. This problem has been corrected.

Table 184. Operational Issues (Continued)

Issue	Correction or Fix
In some areas the Information Management online Help is out of date and inaccurate. Important 800xAINM-OL-5100-003	Information Management manuals provided on the 5.1 media are up to date and accurate.
It was not possible to restore archived PDL data that contained embedded single quote characters (') in a task variable. Important 800XAINM-OL-5023-003	This problem has been corrected.
It was not possible to configure PDL to be deleted *After Job End* without configuring an archive device. Important 800xAINM-OL-5101-002	This problem has been corrected.
Due to design changes in the System 800xA Alarm and Event handling in the System Version 5.0, data that was previously available in the IM Batch views is no longer available. This resulted in missing data in reports that used the Batch views. Important 800xAINM-OL-5101-003	The Batch views have been updated to retrieve the data properly.

Table 184. Operational Issues (Continued)

Issue	Correction or Fix
The Batch_Procedures view was modified to remove an unnecessary connect by clause that was resulting a loss of performance when retrieving data. Important 800xAINM-OL-5101-004	This problem has been corrected.
The following 15 fields were added to the Batch_ProcessEvents view: • HidingMaskCondition • AlarmState • ObjectName • HidingRuleCondition • AlarmChange • Comment • HidingMaskName • AckHighTime • AckLowTime • Hidden • AutoDisabled • PriorityLevel • NodeName • BlockedRepetitive • ActiveChangeTime Important 800xAINM-OL-5101-005	These fields have been added so that the complete set of alarm attributes are available for Batch reporting.

Fixed in 800xA 5.1

This lists the Installation, Configuration, and Operation issues that have been corrected in Information Management for 800xA 5.1.

History Services

Table 185, Table 186, Table 187, Table 188, and Table 189 lists the fixed History Services Installation, Configuration, Operation, Instruction Manual Changes, and Miscellaneous issues in 800xA 5.1.

Table 185. History Services Installation Issues

Issue	Correction or Fix
An error may occur during pre-installation where OPatch does not write over read only files. An issue has been detected with the use of the OPatch Oracle utility as part of the Oracle CPU update procedure where under certain situations the OPatch utility does not write over read-only files. Important 800XAINM-IN-5023-002	800xA 5.1 Information Manager uses Oracle 11g. This issue is no longer a reported problem.
Upgrading from 800xA 4.1 to 800xA 5.1 requires an extra step. Important 800xAINM-IN-5020-016	*System 800xA Upgrade (3BSE036342*)* contains the necessary steps to perform the upgrade.

Table 186. History Services Configuration Issues

Issue	Correction or Fix
The PDL Extractor used for viewing Batch Management Recipes does not support restored PDLs. Important 800xAINM-CN-3510-0012	An information note containing the following has been added to: *System 800xA Information Management Getting Started (3BUF001091*) > Section 5 Batch Integration > PDL for Batch Management Overview* and *System 800xA Information Management Data Access and Reports (3BUF001094*)* Appendix B PDL for Batch Management > Accessing PDL Data (Using PDL Task ID) The PDL Extractor can only be used for recipes from PDL that have not been restored.
The History Access Importer can create multiple objects with the same name. This happens when consolidating from a node that has logs using the object.0000n notation and more then one property of that object is being logged. For example: two logs tag1.00001:Level1 and tag1.00001:Level2 end up creating two objects with the same name, tag1.00001, with one property assigned to each log. Important 800xAINM-CN-3621-0010	The importer utility now uses the full path to distinguish object and properties.

Table 186. History Services Configuration Issues (Continued)

Issue	Correction or Fix
When using the Bulk Configuration tool in Microsoft Excel to create a large number of property logs, the logs will not activate automatically, even if the Activation Command is set to Activate. Also some existing logs may be deactivated inadvertently. 800xAINM-CN-3500-0005	The documentation has been updated to address this missing upgrade step. The following has been added to: *System 800xA Information Management Getting Started (3BUF001091*) >* Section 2 Configuring Basic Functionality > Collecting and Viewing Historical Data > Adding a Log Configuration Aspect to an Object > Using the Bulk Configuration Tool and *System 800xA Information Management Configuration (3BUF001092*)* Section 9 Historical Process Data Collection > Bulk Configuration of Property Logs > Work Flow If multiple log configurations are created using the Bulk Import tool and Industrial IT Basic History and Information Management logs stop collecting follow these steps: a. Locate the Basic History Service Providers for the log configurations just created. b. Restart these Basic History Service Providers located in step a.
The Information Manager authentication aspect is not created on the new history control or PDL control aspects. 800xAINM-CN-5000-0032	Authentication and auditing functionality has been added to the following aspects: • Inform IT History Profile. • Inform IT History View Report Logs. • Inform IT PDL Auto Archive. • Inform IT Group Control. • Inform IT ViewPDL.

Table 186. History Services Configuration Issues (Continued)

Issue	Correction or Fix
The current architecture of the Batch Management interface to Information Management does not support the recording of the Batch Recipes (PFCs) to more than one Information Management PDL. The PFC is guaranteed to be on one of the Information Management Server nodes. 800xAINM-CN-3510-0011	An information note containing the following has been added to: *System 800xA Information Management Getting Started (3BUF001091*)* > Section 5 Batch Integration > PDL for Batch Management Overview and *System 800xA Information Management Data Access and Reports (3BUF001094*)* Appendix B PDL for Batch Management > Accessing PDL Data (Using PDL Task ID) The current architecture of the Batch Management interface to Information Management does not support the recording of the Batch Recipes (PFCs) to more than one Information Management PDL. The PFC is guaranteed to be on one of the Information Management Server nodes. If trying to view a PFC from a PDL on one Information Management Server node results in one not being found, look for the PFC on another Information Management Server node.
Information Management Performance Counters operate as expected when current values are being displayed. However, when counters are added to a log file for longer term monitoring, attempting to activate the log file returns a fatal error. 800xAINM-CN-4000-0005	Documentation has been updated to reflect the proper manner of adding performance counters.

Table 186. History Services Configuration Issues (Continued)

Issue	Correction or Fix
Excel sheet columns A through E may disappear when using the **Bulk Import > Initialize Sheet** to initialize a workbook. No log names are shown. Important 800xAINM-CN-3621-0011	An information note containing the following has been added to: *System 800xA Information Management Configuration (3BUF001092*)* Section 9 Historical Process Data Collection > Bulk Configuration of Property Logs > Initializing a New Workbook Excel sheet columns from A through E may disappear hiding any log names. This can be corrected by unfreezing panes and refreezing panes.
When the archive device is configured to backup full archive volumes to an ISO image of the archive volume directory, the mkisofs.exe application crashes causing the archive job to fail. Important 800xAINM-CN-5010-078	An updated version of the mkisofs.exe has been implemented which handles the Windows DEP settings and no longer creates an exception.
Although a PDL Message Log created by Batch Management will be consolidated from the target node, if a PDL Message Log has not been configured on the Information Management Consolidation node, or if it has been configured incorrectly, it will not contain any messages for any of the tasks when viewed on the Consolidation node. 800xAINM-CN-3520-0014	Information describing the solution to this issue has been included in the following: *System 800xA Information Management Configuration (3BUF001092*)* Section 12 Consolidating Historical Data > Consolidating Message Logs and PDLs and *System 800xA Information Management Technical Support Reference (3BUF001147*).*

Table 186. History Services Configuration Issues (Continued)

Issue	Correction or Fix
Information Management History numeric logs will not create if the Object Type Structure aspect is present in the same object as the Log Configuration aspect. This is typical for the objects in the Object Type Structure and Library Structure, but can also be seen in other structures and may result in the inability to create the numeric log. Important 800xAINM-CN-4108-022 Product Bulletin: 3BUA001274	A correction has been made to the Information Management history synchronization process to: • Detect the conditions described in the problem based on the location of the object. • Create the numeric logs for all structures except the Object Type Structure and Library Structure.
A problem has been observed that if an archive is produced and the log name is renamed after the data has been archived, the restore/publishing of the archive will fail to match log names and the link to the restored log in the log hierarchy will not function. Important 800xAINM-CN-5021-003	Absolute names are now included as part of the archive storage. Archive links now use an absolute reference that is independent of the name of the log.
PDL archives fail for numeric associations having definitions greater than 80 characters or if the object is deleted. Important 800xAINM-CN-5010-084	PDL archives no longer fail for numeric associations having definitions greater than 80 characters or if the object is deleted.

Table 186. History Services Configuration Issues (Continued)

Issue	Correction or Fix
Switching between the 800xA System basic history log and the Information Management history log in the log template multiple times causes the System 800xA Workplace to hang and require a restart of the System 800xA Workplace. After the restart the log set and archive group are deleted from the log template. 800xAINM-CN-5020-053	The configuration aspect now correctly identifies when a change had been made. As a result the log configuration aspect does not save a blank set.
The label for returning all properties from the Inform IT Bulk Importer does not properly describe the existing behavior. Important 800xAINM-CN-5020-054	The Inform IT Bulk Importer labels have been changed for *Select an Object* to better describe the functionality.
When creating a log configuration where 2 Information Management logs collect from a single basic history log, under certain situations if the first log is deleted the second is also deleted and recreated. This causes the data stored in the second log to also be deleted. Important 800xAINM-CN-5021-004	The second log is no longer deleted when the first log is deleted.

Table 186. History Services Configuration Issues (Continued)

Issue	Correction or Fix
Changing the name of a configured log set causes log configurations pointing to the renamed log set to fail to be created in the History database. Page 141 of *System 800xA Information Management Configuration (3BUF001092*)* does not state that once configured, the log set name can not be changed. Important 800xAINM-CN-5010-085	*System 800xA Information Management Configuration (3BUF001092*)* has been changed to state that once configured, a log set name can not be changed.
License count for dual logs is incorrect for history logs. Distributed and regular logs are counted correctly. 800xAINM-CN-4000-0010	Dual logs and single logs are counted the same way. A system configured with dual logs will have a license count which is two times that of a system which is configured with single logs. The license count variable is the same.
PDL data storage only supports batch procedure paths of 40 characters or less. 800xAINM-CN-5010-071	A caution note has been added to the following, stating that PDL data storage only supports batch procedure paths of 40 characters or less. *System 800xA Information Management Data Access and Reports (3BUF001094*)* Appendix B PDL for Batch Management > Configuration Requirements for Batch Management

Table 186. History Services Configuration Issues (Continued)

Issue	Correction or Fix
Changes not propagated from History template to actual log. Currently, if changes are made to the log template that a log uses, the modifications do not flow down to the logs created by the template. 800xAINM-CN-3600-0001	The following has been added to: *System 800xA Information Management Technical Support Reference (3BUF001147) Section 1 First Response Guidelines > Offline Engineering > Changes Not Propagated from Log Template to Actual Log* If changes are made to the log template that a log uses, the modifications do not flow down to the logs created by the template. Modify the corresponding logs that were created by the log template to resemble the log template.
Configuration of the Automatic Deletion of PDL data is not working, The data does not delete. The automatic Archive/Deletion aspect in the Plant Explorer was not passing the proper information into the IM Oracle database. Instead of using the internal representation of the Fields for No deletion, After archive, On batch end, and On job end, it was using the index of the selection box. This was causing incorrect operation of the auto delete, and causing data to not be deleted. 800xAINM-CN-5022-002	The aspect was corrected to store the delete delay proper value.

Table 187. History Services Operational Issues

Issue	Correction or Fix
It has been seen due to system startup and timing conditions that the Information Management history does not automatically find other Information Management Consolidation nodes configured to run in the same OMF TCP/IP configuration. Because of this, numeric consolidation and importer links do not function correctly. Important 800xAINM-OL-5020-046	Information Management Consolidation nodes now recognize each other after rebooting.
Finished reports cannot be added to an archive group using the **Add Entry** button from the Archive Groups aspect. Important 800xAINM-OL-5020-017	The **Add Entry** button has been corrected, finished reports can be added to an Archive Group.
Numeric logs (associated with a batch using the history association capabilities) that contain exception-based numeric values that change infrequently will not be archived when the batch is archived if the log contained data before the association was made and received data after the association. Important 800xAINM-OL-5020-015	A modification in the archive service has been made to include the samples which correspond to the time horizon whether a value changed during the associated time window or not.

Table 187. History Services Operational Issues (Continued)

Issue	Correction or Fix
When using the Engineering in Environments function with a separate Engineering system, it is possible that the ITEM ID can be incorrect for Information Management logs moved from the Engineering System to the Production System. One indication of this problem is the IM log returning the E_INVALID_ITEM_ID error code on the **Status** tab. Important 800xAINM-OL-5010-077	A fix has been made to allow the History Service to use the existing accessName embedded in the ITEM ID from the LogConfiguration imported from the Engineering system.
When an OPC message log references an Archive Group and that Archive Group is configured for timed archive, the Archive Service will spin when the newest two messages are only 0.1 µs apart. The Archive Service will repeatedly archive until all available archive volumes are full. Important 800xAINM-OL-5021-006 Product Bulletin: 3BUA001374	The correction properly detects the time precision, preventing the Archive Service from spinning. This problem does not exist if the logs are referenced by the Archive Group.
An uninitialized Event Collector Service Groups object can be created in the Service Structure (by the Information Management History Startup Service) after a reboot of the Information Management Server. This causes Alarm and Event lists to indicate an OPC/AE source is unavailable. 800xAINM-OL-5020-011	Additional logic has been added to handle retries if the setup does not verify that the OPC/AE Message Server is available.

Table 187. History Services Operational Issues (Continued)

Issue	Correction or Fix
An archive created on a software version prior to Advant Enterprise Historian 2.2/0 for HP-UX and converted using Enterprise Historian 2.2/1 to a disk based archive can not be accessed by the Excel Data Access (Data Direct) event retrieval functions or browsers on the 800xA System. Important 800xAINM-OL-5020-058 Product Bulletin: 3BUA001453	The necessary information has been added to the database for the Data Direct query to find the MODMSGLOG.
Logattrs view in Oracle returns multiple rows instead of a single row with the current value. 800xAINM-OL-5020-055	*Logattrs* view in Oracle now returns a single row.
An archived report originally created on Enterprise Historian 2.2/1 for HP-UX or earlier, which has been converted using Enterprise Historian 2.2/1 to a disk based archive format, can not be accessed if the output is stored in PDF format. Although the archive has been restored correctly the restored report does not include a file extension. The archive interface allows the user to associate a file extension; however, in this case the.pdf extension is never used when the file is extracted. As a result the retrieval tools can not determine how to extract the file and render it properly. 800xAINM-OL-5020-060 Product Bulletin: 3BUA001455	The code that restores a report log has been updated to handle older report file extensions.

Table 187. History Services Operational Issues (Continued)

Issue	Correction or Fix
The import of objects caused related numeric logs to be deleted and recreated. This was caused by the log being deleted and recreated in an off-line system, but the on-line system was unable to detect that these were the same logs. As a result the logs where recreated. Important 800xAINM-OL-5010-086	Check Synchronization functionality changed to properly report logs that need to be created and/or deleted.
Under certain conditions, the Aspect Server and the Information Management History Service can get out of synch (due to maintenance or other downtime activities). As a result log names and paths to objects may not match and can cause difficulty when restoring data, causing a manual process to be required. Important 800xAINM-OL-5010-087	The history service checks and updates object paths and log names once a day and reports how many have been updated. If any logs are not synchronized, system messages are generated that identify the problem.

Table 187. History Services Operational Issues (Continued)

Issue	Correction or Fix
The Log Configuration aspect can not be copied from one object to another if the Log Configuration aspect contains a restored Information Management log. 800xAINM-OL-5020-013	The user can now copy and paste objects with Log Configuration aspects. The restore (RST) log will automatically clean up. No action is required by the user. **User Hint:** Place a log summary at the top of the Control Structure (and any other structure that has Log Configuration aspects). Verify that no logs have inconsistencies. If they do, use the aspect to correct them. This is required on any system that may have copied Log Configuration aspects prior to 800xA 5.0 SP2B. The correction is part of 800xA 5.0 SP2B; however, copies of the inconsistent aspects can be reintroduced into a system if projects or imports are brought in from older configurations.
When an Oracle ODBC connection to Information Management is used to get data directly from the message log table, it is not possible to select the alarm condition state for each event saved in the log. Important 800xAINM-OL-5010-088 Technical Description: 3BUA001124	Material from *Technical Description, System 800xA Version ATTVAL Oracle Function for Information Manager Message Log, 3BUA001124* has been added to *System 800xA Information Management Configuration (3BUF001092*)*.
The migration tools provided as part of the backup and restore utilities do not support the ability to migrate a dual Enterprise Historian to System 800xA and preserve the data. Important 800xAINM-OL-5020-014	Limitation information has been added to: *System 800xA Information Management Migration of Enterprise Historian Applications (3BUF001150*)* Section 1 Migrating Enterprise Historian Systems to 800xA > Introduction > Migration Limitations

Table 187. History Services Operational Issues (Continued)

Issue	Correction or Fix
Performance improvement for the Industrial IT Alarm and Event List aspect when accessing the Information Management events (Message Log). 800xAINM-OL-5010-092	This enhancement provides improved search times by using a filter on the EventTime column of the Alarm and Event List aspect set up to view the Information Management events (Message Log). Refer to Configuration for 800xAINM-OL-5010-092 on page 496 and Application for 800xAINM-OL-5010-092 on page 497 to use this enhancement.
Importing archive volumes from Enterprise Historian can cause Microsoft Excel to crash. Important 800xAINM-OL-5100-001 Technical Bulletin: 3BUA001470	Repaired memory leak that was causing Microsoft Excel to crash.
The last OPC time is not corrected to match the database when an hsBackup is restored. Important 800xAINM-OL-3110-001	In order to improve the ability to restore Information Management configuration and data for online upgrades from 800xA 5.0 SPx to 800xA 5.1, the last event time is now stored in the *hsBARBackupStats* file.
An Engineering Unit field is 12 characters or greater causes an internal table mismatch which, after a re-synchronization operation is performed, causes the logs to go from an active to an inactive state. The logs can be manually reactivated; however, after any other re-synchronization operation the logs will become inactive again. Important 800xAINM-OL-5012-016 Technical Bulletin: 3BUA001534	Logs will not go to the inactive state if an Engineering Unit field having 12 characters or greater is updated in the Log Configuration aspect of the Information Management numeric logs.

Table 187. History Services Operational Issues (Continued)

Issue	Correction or Fix
Consolidating numeric log data from one Information Management node to an Information Management Consolidation node causes the data to be consolidated into a new log with a new name. Because of this name change, PDL log associations that store the log name are no longer valid when used on the Information Management Consolidation node. Important 800xAINM-OL-5010-073	Information related to correctly configuring consolidation for Batch PDL data with history associations has been added to: *System 800xA Information Management Configuration (3BUF001092*)* Section 12 Consolidating Historical Data > Consolidating Batch PDL Data with History Associations

Table 187. History Services Operational Issues (Continued)

Issue	Correction or Fix

The archive publishing service can become corrupt after publishing archive volumes. The situation occurs after the archive service has published, unpublished, or republished the same numeric log that is part of 12 or more archives within either a single archive volume or across multiple archive volumes.
 	
NOTE: publishing is accomplished for an archive volume not an archive instance within a volume, so all archives instances within an archive volume are automatically published.
 	
Once the publishing of the same numeric log has exceeded 11, retrieval of published data will work sporadically. If additional volumes are published, republished, or unpublished an error is typically presented during publishing indicating the following:
 	
`Error publishing or`
`unpublishing does not`
`complete.`
 	
 Important
800xAINM-0L-5023-001
Product Bulletin: 3BUA001553
	The problem that resulted in the publishing failing to complete, or to complete correctly, has been resolved.

hsDBMaint -checkDB and hsDBMaint - CheckItemIDs return errors. The tools can not correct the errors. Important 800xAINM-OL-5024-005 Product Bulletin: 3BUA001662	The tools were updated to correct the problem Log Configuration aspects. The problem was caused by creating an IM dual log configuration by copying a reference log configuration aspect with 800xA 5.0 software older than 800xA5.0 SP2 Rev B.

Table 188. History Services Instruction Manual Changes

Instruction	Correction or Fix
Steps on page 167 and 168 of *System 800xA Information Management Configuration (3BUF001092*)* are no longer necessary when configuring a system 800xA Event List to retrieve events from the Information Management event log. 800xAINM-MC-5010-089	*System 800xA Information Management Configuration (3BUF001092*)* has been changed to remove the unnecessary steps.

Table 189. History Services Miscellaneous Issues

Problem or Issue	Correction or Fix
hsBAR does not save the last archive time when backing up history. Important 800xAINM-MS-5021-005	In order to improve the ability to restore Information Management configuration and data for online upgrades from 800xA 5.0 SPx to 800xA 5.1, the last event time is now stored in the *hsBARBackupStats* file.

Configuration for 800xAINM-OL-5010-092

The following must be performed to take advantage of the improved search times provided with this enhancement. This procedure requires Engineer Privileges. Setting a specific time range in this procedure rather than making the settings specified in Step 2, and using the enhancement as described under Application for 800xAINM-OL-5010-092 on page 497 or Application for 800xAINM-OL-5010-092 on page 499, will result in a conflict with the time ranges.

1. Navigate to the **Filter** tab of the Alarm and Event List Configuration aspect (named IM Events (Message Log) Configuration in the example shown in Figure 3) in the Preview Area of the Plant Explorer Workplace.

2. Make the settings shown in Figure 3 for View From (**Newest)** and View To (**Oldest)**.

3.   Click **Apply**.
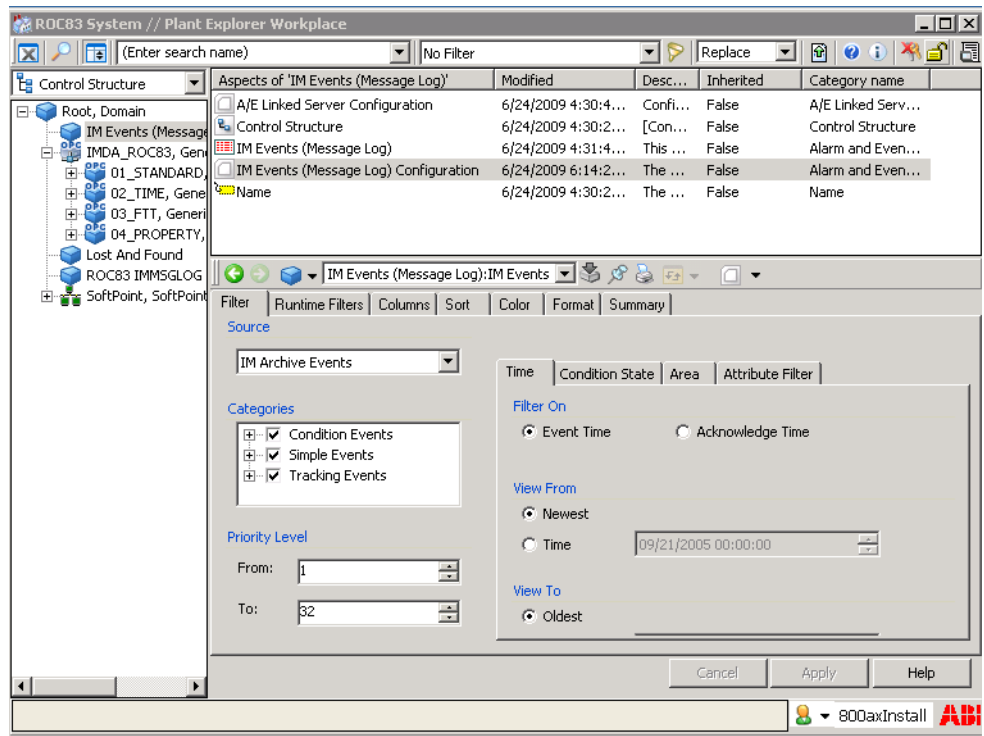
Figure 3. Filter Tab View From and View To Settings

Application for 800xAINM-OL-5010-092

There are two ways to configure column filters:

•   Application for 800xAINM-OL-5010-092 on page 497.

•   Application for 800xAINM-OL-5010-092 on page 499.

EventTime Column. The EventTime column allows a person with Operator privileges to set up a filter that will display events in a specified time range.

1.   Navigate to the Main View of the Alarm and Event List aspect (named IM Events (Message Log) in the example shown in Figure 4).
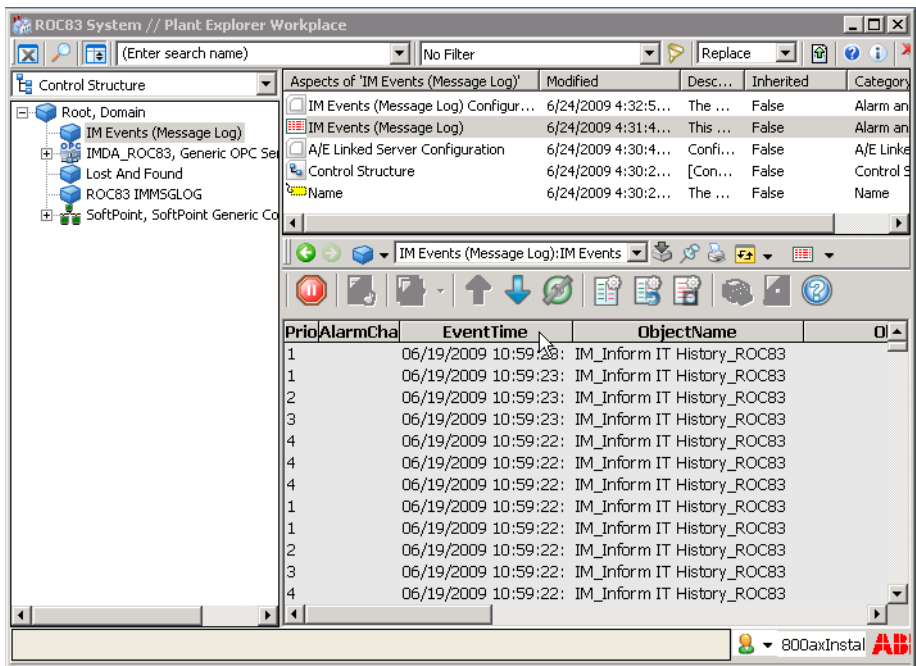
Figure 4. Accessing the Runtime Attribute Filter Dialog Box

2. Right-click the EventTime column in the Preview Area of the Plant Explorer Workplace.

3. This will cause the Runtime Attribute Filter dialog box shown in Figure 5 to appear. The example shown in Figure 5 will fetch IM Events for the first half of 2009.

   a. Set Expression 1 to **Larger Than** in the drop-down list box.

   b. Set the desired start time for Expression 1.

   c. Set Expression 1 to **Less Than** in the drop-down list box.

   d. Set the desired end time for Expression 1.

   e. Set the logical operator to **And**. Selecting **Or** will fetch all events and defeat the purpose of the filter.

f.   Click **OK**.

Figure 5. Runtime Attribute Filter Dialog Box

Runtime Filter. The Runtime Filter allows a person with Engineer privileges to set up predefined filters that will display events in a specified time range. A person with Operator privileges can select the desired predefined filter from the Alarm and Event List aspect.

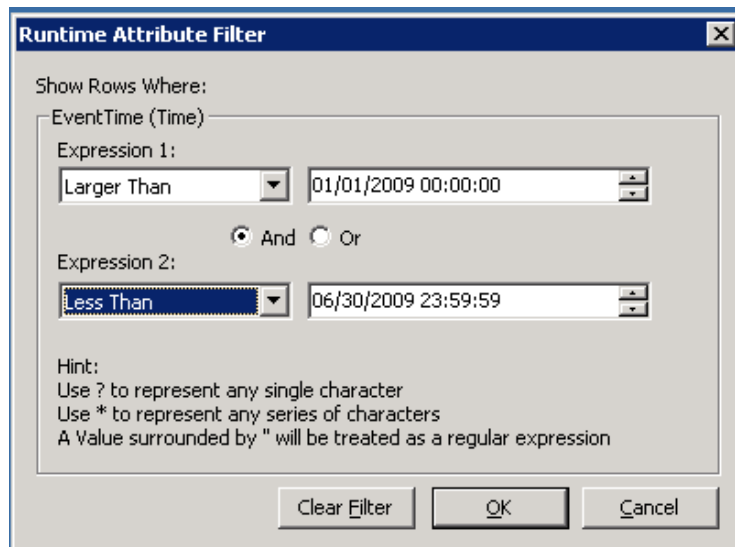1.   Navigate to the **Runtime Filters** tab of the Alarm and Event List Configuration aspect (named `IM Events (Message Log) Configuration` in the example shown in Figure 6) in the Preview Area of the Plant Explorer Workplace. The example shown in Figure 6 will fetch IM Events for the first half of 2009.

2.   Click **Add** in the Filter Configuration Area to launch the Add/Edit FilterSet dialog box.

3.   Enter a name and description for the filter and click **OK** to save the changes and close the dialog box.

4.   Scroll down to the `EventTime` row in the Attributes Area and select it.
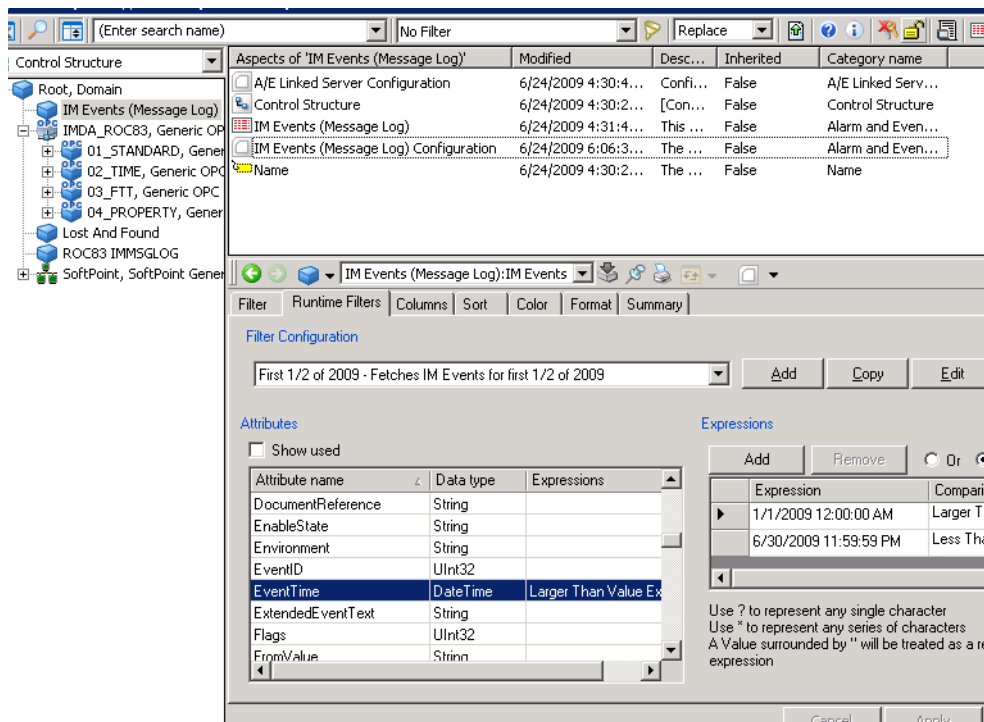
Figure 6. Accessing the Runtime Filters Tab

5. Click **Add** in the Expressions Area to enter the start time for the filter.

6. Click in the `Expression` column and enter the start time.

7. Click in the `Comparison Operation` column to enable the drop-down list box.

8. Select **Larger Than** in the drop-down list box.

9. Click **Apply**.

10. Scroll down to the `EventTime` row in the Attributes Area and select it.

11. Click **Add** in the Expressions Area to enter the end time for the filter.

12. Click in the `Expression` column and enter the end time.

13. Click in the `Comparison Operation` column to enable the drop-down list box.

14. Select **Less Than** in the drop-down list box.

15. Set the logical operator to **And**. Selecting **Or** will fetch all events and defeat the purpose of the filter.

16. Click **Apply**.

17. Repeat the procedure to set other predefined filters.

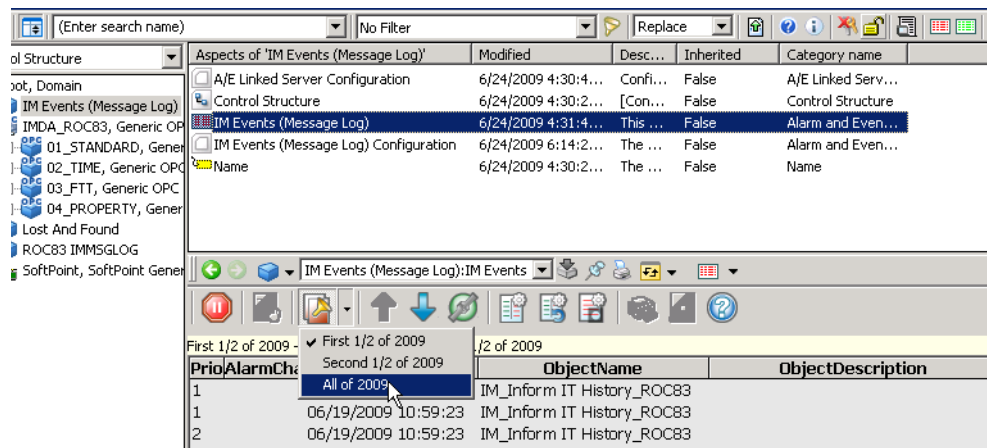18. An operator is able to select from predefined filters as shown in Figure 7.

Figure 7. Selecting Predefined Filters

Calculations

Table 190, Table 191, and Table 192 lists the fixed Calculations Configuration, Operation, and Instruction Manual Changes issues in 800xA 5.1.

Table 190. Calculations Configuration Issues

Issue	Correction or Fix
VB Script for Calculations can not interpret commas in a foreign language. 800xAINM-CN-4000-0004	A caution note has been added to the following, stating that if the Windows Regional Settings are set to a locale other than English (United States), and the decimal symbol in that locale is specified as a comma (,), the regional options must be customized to use the dot (.) as the decimal symbol. *System 800xA Information Management Configuration (3BUF001092*)* Section 4 Configuring Calculations > SetLocale Function for Native Language Support
After deleting an object that has a Calculation aspect, the calculation continues to run. 800xAINM-CN-3610-0007	A redesign of the Calculation Service prevents a calculation from continuing to execute, when the associated object has been removed.
When a calculation is enabled, or when configuration of a calculation is protected by a Security aspect it is expected that modifications to the variable grid will not be allowed. However, the scroll bar is rendered inoperable which may make it difficult to view the entire grid when the grid is large. 800xAINM-CN-3500-0008	A note has been added to the documentation to indicate that this is the expected behavior.
After running a calculation in a test mode with update status setting = TRUE (On), when the update status is turned off (FALSE), the status viewer shows misleading information. It maintains the data from the last time the calculation executed. 800xAINM-CN-3600-0002	Changes made so that when the status viewer is refreshed, the last execution time goes to blank if the update status is turned off (FALSE). It no longer maintains the data from the last time the calculation was executed.

Table 190. Calculations Configuration Issues (Continued)

Issue	Correction or Fix
Outputs from calculations may not occur if type mismatches exist between the output variable and property being written to. Important 800xAINM-CN-5011-001	A caution note has been added to the following, stating that when working with variables in VBScript, the assignment of any output variable must be explicitly cast to the output variable type using expressions such as: `OutputVar = CInt(variabledata)` *System 800xA Information Management Configuration (3BUF001092*)* Section 4 Configuring Calculations > Configuring Calculations > Writing VBScript
The Calculation Service sends out at least one diagnostic each time the calculation executes and can not write to one of the output variables. Important 800xAINM-CN-4100-0005	Information documenting the workaround has been added to: *System 800xA Information Management Configuration (3BUF001092*)* Section 4 Configuring Calculations > Calculations Service Recommendations and Guidelines > Use Case 6 - Calculations Service Diagnostic Messages

Table 191. Calculations Operational Issues

Issue	Correction or Fix
Calculations does not write data to labdata logs. The calculation will not run if any of the variables is set to write to a labdata log. Important 800xAINM-OL-5023-003	This issue is resolved. Calculations will provide data to the labdata log.

Table 191. Calculations Operational Issues (Continued)

Issue	Correction or Fix
A data source used by the Calculation Service may take too long to return, or it may return an error after the calculation has been initially added or enabled. If this occurs, the input will be registered as a zero and used by the calculation. This is typically seen on slow changing values or data sources that are disabled. 800xAINM-OL-5011-091	A calculation using the bad data source will acknowledge the error and not execute the calculation until good data is available. It will then wait until the next cycle to run the Calculation again.
Event triggered calculations cause memory leaks which grow over time and cause the calculations to fail. Important 800xAINM-OL-5012-018	This issue has been resolved. Event triggered calculations no longer cause a memory leak.
Calculations cannot write to a PLC Connect object if the Calculations and PLC Connect are running on different servers. Important 800xAINM-OL-5100-001	Calculations will be able to write to a PLC Connect object on remote nodes. This issue is resolved.
If the Calculation Service is executing in a redundant configuration, on failover, the standby node will fail to acquire the calculation license. Important 800xAINM-OL-5010-082	The calculation service has been corrected to handle the license failover condition.

Table 191. Calculations Operational Issues (Continued)

Issue	Correction or Fix
The Calculations Service can set signal quality of a SoftPoint to bad even though the body of the calculation is not writing to the SoftPoint data quality. The Calculation Service uses the quality of the input signal for the output although the body of the calculation does not expressly set a value. A race condition has been observed where BAD Data Quality can be set for a SoftPoint, if the input has bad data quality on the initial scan and the body of the calculation does not write to the data quality. Important 800xAINM-OL-5010-091	The Calculation Service has been modified. On startup all output signals by default will use a data quality of good. The body of the calculation must set the data quality to bad if required. The body of the calculation must explicitly set the data quality to bad on each execution and not assume that the data quality will remain bad from the previous cycle. This is required in case of a restart of the Calculation Service. The default value GOOD is only set during initialization of the Calculation Service.
The Calculation Service crashes when the number of Calculation variables in all the enabled Calculations exceeds the size of an internal program data storage area. The size of the storage area varies from system to system, so there is no fixed number of variables that will result in this issue being seen. Important 800xAINM-OL-5024-001 Product Bulletin: 3BUA001636	This issue is resolved. The Calculation Service has been modified to allocate sufficient storage for the defined Calculation variables.

Table 192. Calculations Instruction Manual Changes

Instruction	Correction or Fix
Information Management user documentation updates have been added to provide additional guidance for the proper operation and configuration of the calculation service. The documentation updates replace those in Technical Description 3BUA001125. Important 800xAINM-MC-5021-001 Technical Description: 3BUA001125	Information Management user documentation updated to provide additional guidance for the proper operation and configuration of the calculation service.

Application Scheduler

Table 193, Table 194, Table 195, and Table 196 lists the fixed Application Scheduler Installation, Configuration, Operation, and Instruction Manual Changes issues in 800xA 5.1.

Table 193. Application Scheduler Installation Issues

Issue	Correction or Fix
The Information Management Application Scheduler software (and others) does not properly install on disk drives other than C:. 800xAINM-IN-5010-052	The Application Scheduler can be installed on a non C: drive configuration.

Table 194. Application Scheduler Configuration Issues

Issue	Correction or Fix
Data Execution Prevention (DEP) enabled hardware and software with Windows XP SP2 (or later) and Windows 2003 SP1 (or later) will not open Crystal Reports 11 Developer Edition. The Event Viewer shows the Dr. Watson error `Application error C0000005 at address 7FF2FBFC`. Important 800xAINM-CN-5010-039	Crystal Reports 2008 is used with Information Management in 800xA 5.1 and is not affected by DEP enabled hardware and software.
Scheduled 800xA System backups cannot be aborted from the Application Scheduler. Important 800xAINM-CN-4100-0032	An information note has been added to the following, stating that scheduled 800xA System backups cannot be aborted from the Application Scheduler. *System 800xA Maintenance (3BSE046784*)* Section 6 Backup and Restore > Scheduling a Backup
Reports saved in HTML format in the Object Store (Aspect Directory) do not display multi-file formats. The file viewer aspect only accepts one file, while the HTML conversion generates several. Important 800xAINM-CN-5000-0033	An information note has been added to the following, stating that HTML format being saved in the Aspect Directory is intended for a single file format to display data. Do not use this location to store multi-file HTML reports that reference graphics or other information. Store to disk instead. *System 800xA Information Management Data Access and Reports (3BUF001094*)* Section 5 Creating Reports > Report Parameters

Table 194. Application Scheduler Configuration Issues (Continued)

Issue	Correction or Fix
When a Report Log is made inactive and the Action aspect is configured to output the report to a Report Log in History Services, the reports get updated in the History Service even though the state indicated is inactive. 800xAINM-CN-3500-0006	The following has been added to: *System 800xA Information Management Configuration (3BUF001092*)* Section 8 HIstorizing Reports > Report Log Aspect > Configuring Report Log Operating Parameters When building a report log, keep the following in mind: • Report logs do not have to be activated in order to store reports. Therefore, log sets, log state, start state, and start time are not applicable for report logs.
Reports can be deleted before they are digitally signed and archived. There is no tie between the reporting scheduler and the archive on how the files are managed. Important 800xAINM-CN-3622-0012 Technical Bulletin: 3BUA001470	A caution note has been added to the following, stating to make sure that the reports are digitally signed and not to let the archive utility build up to the maximum number of reports before unsigned reports are deleted. *System 800xA Information Management Configuration (3BUF001092*)* Section 11 Configuring the Archive Function > Archive Group Aspect > Adding Entries for Platform Objects
The **Abort** and **Pause** buttons on the Scheduled Job aspect for a running job are not enabled when a job is running. Buttons need to be removed. 800xAINM-CN-3600-0003	A documentation note has been added to the Data Access and Reports user guide to indicate the proper behavior.

Table 194. Application Scheduler Configuration Issues (Continued)

Issue	Correction or Fix

Reading Excel Reports produced using ODBC queries produced the following modal error message on opening the file:
 	
    Cannot find XLQuery.XLA!Register.DClick, which has been assigned to run each time [filename.xls]Sheet1 is opened. Continuing could cause errors. Cancel opening [filename.xls]Sheet1?
 	
The Scheduler has no problem executing reports.
 	
                    Important
        800xAINM-CN-4000-0002
	The behavior of Office 2007 has addressed this issue and it will no longer been seen.

Table 195. Application Scheduler Operational Issues

Issue	Correction or Fix

The Scheduler failed because the Microsoft Excel compatibility checker for Office 2007 found a problem while running a report created from a report template that was created in the Excel component of Microsoft Office 2007.
 	
                    Important
        800xAINM-OL-5010-074
	The Application Scheduler has been enhanced to handle both Office 2007 in compatibility and native mode.

Table 195. Application Scheduler Operational Issues (Continued)

Issue	Correction or Fix

Occasional failures while generating Batch reports (Crystal Reports) and Historize reports in pdf format on a single IM node or dual log configurations (2 IM servers collecting the same inputs (messages, etc.) using a Batch recipe to trigger the Batch reports from a Schedule Job BMA block, with the Scheduling Structure configured with JobDescriptions to generate the reports.
 	
The failures result in the following error:
 	
   `"Method '~' of object '~'`
   `Failed".`
          800xAINM-OL-5010-095
	There was a mismatch in the version of MDAC installed and the version of MDAC with which the Application Scheduler was built. This issue is resolved in 800xA 5.1.

Reports scheduled with the Application Scheduler have been seen to hang on exit after several days of execution. The reports complete execution, but the Excel application does not terminate upon report completion. This results in multiple Excel applications left in the Windows Task Manager. Eventually no additional Excel applications can be started.
         800xAINM-OL-5010-093
    Product Bulletin: 3BUA001439
	A modification has been made in the logic to improve the ability for the report to exit and allow the excel application to terminate.

Table 195. Application Scheduler Operational Issues (Continued)

Issue	Correction or Fix

Reports generated with the **Save to History** option enabled may fail randomly with the error:
 	
    `Method '~' of Object '~'`
    `Failed".`
 	
even though the job appears to have failed the report is generated and stored in the history log correctly.
 	
 Important
800xAINM-OL-5024-003
Product Bulletin: 3BUA001652
	This problem was caused by a compatibility problem during a software build. It has been resolved.

Table 196. Application Scheduler Instruction Manual Changes

Instruction	Correction or Fix
It is not possible to output Excel reports in HTML format to the aspect directory (object path). Important 800xAINM-MC-5010-030	Output Excel reports in HTML format to a Windows directory (file path). Another alternative is to output the Excel report to the aspect directory in Excel (.xls) or True Text (.txt) format.
Procedures described on pages 426 and 427 of *System 800xA Information Management Data Access and Reports (3BUF001094*)* are no longer necessary. The procedure describes the requirement for the Application Scheduler to include the DataServerLogin parameter when accessing data from Oracle. This is no longer required. 800xAINM-MC-5010-090 Technical Description: 3BUA001126	*System 800xA Information Management Data Access and Reports (3BUF001094*)* has been changed to remove the procedures that are no longer necessary.

Open Data Access

Table 197 and Table 198 lists the fixed Open Data Access Operation and Instruction Manual Changes issues in 800xA 5.1.

Table 197. Open Data Access Operational Issues

Issue	Correction or Fix
A problem has been encountered where a client application using the Open Data Access functions, can terminate abnormally and not release the license. Subsequent requests for licenses will fail. 800xAINM-OL-5010-083	The license policy has been modified to remove this situation.

Table 198. Open Data Access Instruction Manual Issues

Instruction	Correction or Fix
Open Data Access on remote nodes must be in the same system domain for authentication purposes. 800xAINM-MC-5020-037	This following has been added to the Information Management section of *System 800xA Post Installation (3BUA000156*)*. Reports should use a connection to Oracle using a remote ODBC connection in the Oracle database. The numericlog and genericda public synonyms within the Oracle instance can then be used to access the ODA software. This is done by creating a new ODBC data source on the **System DSN** tab of the ODBC Data Source Administrator (in the Administrative Tools). The report will then use this data source instead of connecting to the Database1 source on the Information Management node.

Desktop Applications

Table 199, Table 200, and Table 201 lists the fixed Desktop Applications Installation, Configuration, and Operation issues in 800xA 5.1.

Table 199. Desktop Applications Installation Issues

Issue	Correction or Fix
After upgrading the User Tag Management tool does not function correctly. Database tables are missing after the upgrade. Important 800xAINM-IN-5010-067	After upgrade the UTM scan tool must be executed to reconstruct the table. Information added to *System 800xA Post Installation (3BUA000156*)*.
An error (`Error Number: 75 - Path/file access error`) will be generated when a user logged in as an operator tries to install the DataDirect toolbar. Important 800xAINM-IN-5010-054	Change made to DataDirect so that all common files are written to public folders.
Crystal Reports does not work following the installation of an Information Management rollup or service pack. 800xAINM-IN-5010-066	An information note containing the following has been added to: *System 800xA Information Management Technical Support Reference (3BUF0011147*)* Section 5 Installation Tips > Setup (Post Installation) > Guidelines for Configuring the History Database Instance > Testing Oracle Connections Prior to 800xA 5.1, Crystal Reports will not work following the installation of an 800xA System Revision or Service Pack. Delete and recreate the ODBC connection to resolve the problem.

Table 200. Desktop Applications Configuration Issues

Issue	Correction or Fix
The Bulk Data Export function in DataDirect is not supported on Microsoft Windows operating systems. This affects Information Management version 3.5 or later (all 800xA System versions and Process Portal version 2.1). Important 800xAINM-CN-3500-0002	All documentation related to the Bulk Data Export function in DataDirect has been removed.
The SQL Browser of Desktop Trends connects to either the IM or EH data provider based on the node it is loaded on. As a result, Desktop Trends loaded on an IM can not browse for tags on an EH node. 800xAINM-CN-4100-0009	This behavior will not be modified and has been documented.
The hsHistoryService process grows the first time the UTM scan is run. The amount of memory growth is proportional to the size of the system. The majority of this growth is object manager cache and is not a leak. Each additional scan causes the hsHistoryService to grow further. The amount of additional growth is much smaller than the growth from the first scan and is proportional to the amount of trend aspects in the system. Important 800xAINM-CN-5000-0040	This is no longer a problem 800xA 5.1.

Table 200. Desktop Applications Configuration Issues (Continued)

Issue	Correction or Fix
A DataDirect Report that includes an ABB function and is stored in the Report log can not be viewed. On the first attempt to view the report, an error message is displayed. After acknowledgement, the report may be seen. The second attempt to view the report hangs Internet Explorer (IE is used to display the report) because Excel never exited. A report that does not include an ABB function can be viewed with no problems. 800xAINM-CN-3510-0013	A modification to the documentation for Excel setup has been added. Change the file opening setup for Excel Worksheets so it does not browse in the same window. This can be found in the Control Panel Folder Options, **File Types** tab. Select the XLS extension and then select the **Advanced** button. Clear the **Browse** check box in same window.
Both Excel and Plant Explorer windows can become frozen if: 1. A Plant Explorer is opened. 2. Excel is opened. 3. A completed DataDirect report in Plant Explorer is read. 4. Switching to different completed reports occurs. Eventually a prompt to log in to DataDirect is shown. 800xAINM-CN-4000-0001	A procedure to set up Excel to not browse in the same window has been added to: *System 800xA Information Management Data Access and Reports (3BUF001094*)* Section 2 Data Direct - Excel Data Access > Application Setup > Changing the File Open Setup for Microsoft Excel Worksheets

Table 200. Desktop Applications Configuration Issues (Continued)

Issue	Correction or Fix

When importing a range of values from a spreadsheet using the **Update Process Values** tab in the Inform IT Process Values dialog box to write process values:
 	
• When the **Use Spreadsheet For Input** check box and the **Select Formatted Range** option button are selected in the Inform IT Process Values dialog box, and multiple single cells are selected in the spreadsheet using the **Ctrl** key, a message may appear indicating the need to select 4 columns when the **Add To List** command button is clicked in the Inform IT Process Values dialog box, even if 4 columns are already selected.
 	
• When the **Use Spreadsheet For Input** check box and the **Select Individual Ranges** option button are selected in the Inform IT Process Values dialog box, and multiple single cells are selected in the spreadsheet using the **Ctrl** key, the following error message will appear when the **Add To List** command button is clicked in the Inform IT Process Values dialog box:
 	
`An unexpected error has occurred in procedure RemoveBlankBorderCells. Error Number: 1004- Unable to get the CountBlank property of the WorksheetFunction class.`
800xAINM-CN-3500-0001
	Information notes have been added to the following areas of *System 800xA Information Management Data Access and Reports (3BUF001094*)* to indicate that selecting multiple single cells using the **Ctrl** key in the spreadsheet will lead to the error conditions.
	
	    Section 2 DataDirect - Excel Data Access > Using the Inform IT Process Values Dialog > Writing Process Values > Importing a Formatted Range of Cells from a Spreadsheet
	
	and
	
	    Section 2 DataDirect - Excel Data Access > Using the Inform IT Process Values Dialog > Writing Process Values > Importing Non-formatted Ranges of Cells from a Spreadsheet

Table 200. Desktop Applications Configuration Issues (Continued)

Issue	Correction or Fix
The Max Row limitation of 3,200 values in a single call for the *ABBGetOPCHDA* function has been removed. The limitation for the maximum number of values that can be returned in a single call for *ABBGetOPCHDA* stated on page 252 of *System 800xA Information Management Data Access and Reports (3BUF001094*)* is no longer necessary. 　　　　　　800xAINM-CN-5021-002	*System 800xA Information Management Data Access and Reports (3BUF001094*)* has been changed to remove the limitation.
The ACC setup program does not run from accounts having only operator access privileges. 　　　　　　　　　　Important 　　　　800xAINM-CN-5010-070	As part of system setup a documentation change has been added to inform users that administrator level access is required to establish the connection path and parameters for operator users who would not have the proper access rights to modify these parameters.
After restoring Produce IT data, the messages for the restored data may not be accessible via the PDL dialog. Switching back to the runtime data, messages may still not be accessible. 　　　　　　　　　　Important 　　　　800xAINM-CN-3200-0003	Information has been added to the documentation to provide the method to be able to view the information.

Table 200. Desktop Applications Configuration Issues (Continued)

Issue	Correction or Fix
Data provider will support access to a data source that uses a special browser separator, but will not support the other data source. For example, the data provider will not support both a special browser separator configured for Harmony process objects and data sources that use the default browser separator such as AC 800M process objects. 800xAINM-CN-3600-0005	A note containing the following has been added to: *System 800xA Information Management Configuration (3BUF001092*)* Section 15 Configuring Data Providers > General Procedures > Editing Data Provider Configuration Files > ReturnAllErrors Argument **NOTE:** A data provider will support access to a data source that uses a special browser separator, but it will not support the other data source. For example, the data provider will not support both a special browser separator configured for 800xA for Harmony process objects and data sources that use the default browser separator such as AC 800M process objects. Creating multiple data providers, one for each different required browser separator, and selecting the applicable data provider as required in the client application will solve this problem.

Table 201. Desktop Applications Operational Issues

Issue	Correction or Fix
In DataDirect, when using Industrial IT Process Values, History Values, or Alarms and Events interfaces to return formulas, the structure would appear twice in the formula. 800xAINM-OL-5020-039	Removed extra instances of the structure.

Table 201. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
Internet Explorer will generate an error when a Desktop Trend Display window opened from the PDL Browser is closed. Important 800xAINM-OL-5020-032	This problem has been corrected by later version of Internet Explorer.
In the User Tag Management browser, importing the same group more than once can causes unexpected results. If the import is to another branch in the hierarchy, the group and its descendents are moved to the import branch. If the import is to the same branch, a non-terminating recursive tree expansion (every time the branch is opened, a copy of the branch is added to the branch.) may be created. This tree expansion problem disappears the next time the UTM browser is opened. 800xAINM-OL-5020-045	This problem has been eliminated by checking for this case (import group onto itself), preventing it, and posting an error message.
The PDL browser functionality for DataDirect and the standalone Desktop Tools allow for the viewing of different PDL structures produced by different Batch implementations. A problem has been observed that when switching display options from Batch Management to another PDL view type and back to the Batch Management view, an .ini file is not updated properly and a runtime error is generated. Important 800xAINM-OL-5020-038	The PDL Browser has been fixed to retain the .ini file at all levels that are associated with Batch Management.

Table 201. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
When launching the Information Manager Desktop tools after installation only a red X may be displayed in the Internet Explorer window. This issue is caused by the Desktop Tools failing to register properly. Important 800xAINM-OL-5020-048	The solution has been added to the following that shows the location of the .bat file necessary to register the Desktop Trends ActiveX components. *System 800xA Information Management Technical Support Reference (3BUF001147*)* Section 4 Data Access Applications > Desktop Trends ActiveX Components Not Registered During Upgrade
Users logged in as Operator get a Path/File access error when trying to view a trend display from DataDirect and the following ABB applications (Ticker, Tag Explorer, PDL Browser, User Tag Management, and Batch to Batch). Important 800xAINM-OL-5010-050	Changes made to the following files so that access errors do not occur when logged in as anything but an administrator on the system and trying to access the trend display from other Desktop Tools and DataDirect. • $/DataDirect/XLS Source Files/ TrendProcedures.bas • $/Desktop Trends/PDL Browser/ ctlPDLBrowser.ctl • $/Desktop Trends/Tag Explorer/ ctltagExplorer.ctl • $/Desktop Trends/Ticker Control/ ctlTicker.ctl
It has been observed after initial installation and occasionally during runtime that the PDL and Event Browser pull-down lists and other fields are left blank and no selection can be made. A runtime error can also occur when the search button is selected. This is a result of the local .ini becoming corrupted. 800xAINM-OL-5020-044	The PDL Browser has been fixed to retain the .ini file at all levels that are associated with Batch Management.

Table 201. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
The **Add Tags** button does not work when UTM is launched from the Ticker and a search for specific tags is performed. Important 800xAINM-OL-5020-031	It is now possible to add tags from the search results grid in the Ticker and Tag Explorer
Tags cut from the workspace of one UTM group and pasted to the workspace of another UTM group are not removed from the original group. They are, however, correctly copied to the second group. Important 800xAINM-OL-5020-035	Tags cut from the workspace of one UTM group and pasted to the workspace of another UTM group are now removed from the original group.
It has been observed in the UTM tool for desktop applications, that if a property name in a log configuration is changed, the corresponding tag name in public and private groups is never updated and that tag name can no longer be used in trends displays. The tag name in the system group is updated by the next UTM scan. The system group tag name can be used in trend displays. 800xAINM-OL-5020-012	Scan groups are now recreated properly after a rescan.
Clients using cyclic rates other than the approved ones (dcs_9s, dcs_3s, and dcs_1s) cause the OPC data provider to fail. 800xAINM-OL-5024-002	A caution note has been added to the following, stating to use only the approved cyclic rates. *System 800xA Information Management Configuration for Display Services (3BUF001093*)* Section 5 Display Services Configuration > Basic Properties > DCS Subscription

Table 201. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
If the same group is imported into UTM in different locations, the group in the first location will disappear the next time UTM is opened. Important 800xAINM-OL-5020-036	This problem has been eliminated by checking for this case (import group onto itself) and preventing it and posting an error message.
The DataDirect message log does not support the filtering of retrieved messages by category. All the messages for the time period specified are returned. Important 800xAINM-OL-5010-053	The query is now formed correctly and only the filtered data is returned.
The following is returned when attempting to replace Numeric Values in Historical Log data points with the Industrial IT History values functionality in DataDirect where the timestamp of a value is a different standard time or daylight saving time than the current setting: `Failed to replace data point.` Important 800xAINM-OL-5023-001 Product Bulletin: 3BUA001426	The timestamp being passed is now altered by plus or minus one hour in order to account for the daylight saving time start or end.
The following is returned when attempting to replace Numeric Values in Historical Log data points with the Industrial IT History values functionality in DataDirect where the hour value of the timestamp matches 1, 4, 7, 10, 13, 16, 19, or 22 in twenty-four hour time: `Failed to replace data point.` Important 800xAINM-OL-5023-002 Product Bulletin: 3BUA001426	The equation that calculates the hours portion of the date has been corrected.

Table 201. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
ABB20080319-0485: The Inform^{IT} DataDirect Insert/Replace function will fail for numeric log data if the timestamp of the value includes a timestamp value where the milliseconds are greater than 500. Important 800xAINM-OL-5020-049	The Inform^{IT} Data Direct functions will now allow the replacement of history log values with the millisecond time field of 500 ms or greater.
The UTM scan run on an Information Management node in a Multisystem Integration subscriber system does not retrieve tags and groups for log configuration and trend display aspects found in the provider system. Important 800xAINM-OL-5010-064	An information note containing the following has been added to: *System 800xA Information Management Data Access and Reports (3BUF001094*)* Section 7 Tag Management > User Tag Management Status Running **Update** on an Information Management node in a Multisystem Integration Subscriber system does not retrieve tags and groups for Log Configuration and Trend Display aspects found in the Multisystem Integration Provider system.
If a change is made to the regional settings for a client computer, the desktop tools will not function correctly. 800xAINM-OL-5020-034	The following has been added to: *System 800xA Information Management Data Access and Reports (3BUF001094*)* Section 4 Desktop Trends > Changing Regional Settings Causes User Errors Every user who changes regional settings after installing and using Desktop Tools will not be able to use Desktop Tools. If this occurs, delete all .ini files in the following folder for each user: `c:\Documents and Settings\user_name\Application Data\ABB Industrial IT\Desktop Trends`

Table 201. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
If a user is not an administrator on the node, the **Allow History Updates** and **Allow Process Updates** settings are not saved in the DataDirect options. 800xAINM-OL-5021-009	**Allow History Updates** and **Allow Process Updates** settings are no longer stored in the registry. They are now stored in the .ini file. This allows the settings to be saved by a user that is not an administrator.
A user without administrator privileges on an Information Management Client desktop node cannot add the DataDirect Add-in to Excel. 800xAINM-OL-5020-033	Change made to DataDirect so that all common files are written to public folders.
Category IDs that are stored in the IM Oracle database are different on different IM Servers. Queries for a specific category, for example Audit Events by the Oracle ID number cannot be copied from one IM Server to another. The Oracle ID number that was being queried against is an Oracle sequence number generated for the categories that exist on a given system. Since different systems have different categories, these numbers will not match system to system. DataDirect is displaying what exists on any given system. 800xAINM-OL-3600-001	This behavior is by design.
Using the trend element of the AdvaInform Display client and the data source of OPCHDA yielded no data in the trend. Important 800xAINM-OL-5010-068 Product Bulletin: 3BUA001628	The timestamps for the data were in UTC and not in local time. The timestamps were adjusted to be localtime.

Table 201. Desktop Applications Operational Issues (Continued)

Issue	Correction or Fix
The PDL Extractor utility failed to create the export file. This utility is used in combination with the 800xA Batch Management History Overview PDL PFC viewer to view archived recipes as a Procedure Function Chart (PFC). The PDL Extractor reported error: `Failed to retrieve data from PDL, code=-125.` The extractor failed to export the information for the History Overview viewer. Data within Information Management was not affected by this issue and was still available for other reporting and viewing methods Important 800xAINM-OL-5024-006 Product Bulletin: 3BUA001708	This issue has been corrected.

Section 19 800xA for Advant Master

This section details the Fixed Problems for 800xA for Advant Master that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 202, Table 203 lists the Operation and Configuration issues that have been corrected in 800xA for Advant Master for 800xA 5.1 Revision E.

Table 202. Operational Issues

Issue	Correction or Fix
Process objects may be locked for operation in a period of 5 minutes. The faceplate view indicates 'locked by other', but there are no other users of the object. 800xAADM-OL-5010-005	The lock handling function has been made more robust against delayed lock responses from the controllers. **Note**: This problem has been corrected in 800xA for Advant Master 5.1 RevD RU1.
OPC DA Service Provider may crash when "Local Devices" system status displays are shown in the workplace. 800xAADM-OL-5111-005	This problem has been corrected. **Note**: This problem has been corrected in 800xA for Advant Master 5.1 RevD RU1.
The red cross is shown on the process displays until the Connectivity Server is restarted. This problem concerns version S-FP 5.1.1-1 TC1 only. 800xAADM-OL-5111-006	This problem has been corrected. **Note**: This problem has been corrected in 800xA for Advant Master 5.1 RevD RU1.

Table 202. Operational Issues (Continued)

Issue	Correction or Fix
The function for resend of subscription request signals which are not received by the controller. The function continues to send these request signals even if the subsequent signals are sent successfully. This can cause unnecessary load in RTA. 800xAADM-OL-5111-007	This problem has been corrected. **Note**: This problem has been corrected in 800xA for Advant Master 5.1 RevD RU1.
The reversed time synchronization (from 800xA to controllers) does not work properly for redundant Connectivity Servers. 800xAADM-OL-5111-001	This problem has been corrected. **Note**: This problem has been corrected in 800xA for Advant Master 5.1 RevD RU1.

Table 203. Configuration Issues

Issue	Correction or Fix
Sometimes a click on the button "RTA Board Config" fails to start On-line Builder. 800xAADM-CN-5111-008	This problem has been corrected. **Note**: This problem has been corrected in 800xA for Advant Master 5.1 RevD RU1.

Fixed in 800xA 5.1 Revision D

Table 204 lists the Operation issues that have been corrected in 800xA for Advant Master for 800xA 5.1 Revision D.

Table 204. Operational Issues

Issue	Correction or Fix
The reduced faceplate of MB300 PID Controller sometimes gives wrong increment for Setpoint and Output, if the decrease or increase arrows are used. 800xAADM-OL-5101-001	This problem has been corrected.
This problem is related to the Object Type DI only. If an object configured for Repeat Fail Control (ABL - Auto blocked) has two unacknowledged alarms, the acknowledgement issued from a faceplate will most likely fail. One alarm will remain in the list, and the object in the controller will remain in Repeat Fail Blocked state, that is, no more alarms will be reported. 800xAADM-OL-5101-005	This problem has been corrected.
Presentation error in the Local Devices (Process Graphics) display. This display presents the detailed system status from AC 410/450 and indicates the status for Battery voltage instead of Backup Supply and vice versa. The error concerns both Backup Supply and Battery Supply indications 1 and 2. 800xAADM-OL-5101-006	This problem has been corrected.

Table 204. Operational Issues (Continued)

Issue	Correction or Fix
The System Status Viewer (SSV) in Control Structure causes high load in RTA and controller, which affects all data access. For example, display exchange takes more than 30s due to interference from SSV. 800xAADM-OL-5100-017	A correction which improves the situation when using S800 I/O is done.
Objects cannot be controlled, and faceplates indicate *Locked by Other* after an upload operation, when importing objects from other systems. 800xAADM-OL-5023-007 Product Alert: 3BSE074799	This problem has been corrected.
Event Texts from the Event Treat database are not displayed for events generated by PC element EVENT. 800xAADM-OL-5020-016	This problem has been corrected.

Table 204. Operational Issues (Continued)

Issue	Correction or Fix
A system with a large amount of subscribed items can cause the OPCDA service process to stop functioning. This results in that data is no longer exchanged with the controllers. When the error occurs, the Connectivity Server must be restarted to revert to normal state. The occurrence of this error increases when more graphic displays and faceplates are added. 800xAADM-OL-5011-004	This problem has been corrected.
After communication disturbance on Master Bus 300, the re-send function in OPCDA service tries to reestablish the subscriptions towards the controllers. In some cases, this can cause permanent overload in RTA and in the controllers. When the error occurs, the Connectivity Server must be restarted to revert to normal state. 800xAADM-OL-5011-005	This problem has been corrected.

Fixed in 800xA 5.1 Revision B

Table 205, Table 206, and Table 207 lists the Administration, Configuration, and Operation issues that have been corrected in 800xA for Advant Master for 800xA 5.1 Revision B.

Table 205. Administration Issues

Issue	Correction or Fix
If a dual connection between CS and PU410 is used, a single connection failure is currently not reported. 800xAADM-AD-5100-009	Redundant PU410 cable supervision is now implemented. For more information, refer to *800xA for Advant Master, Configuration (3BSE030340*).*

Table 206. Configuration Issues

Issue	Correction or Fix
Subscription problems when changing controller application. 800xAADM-CN-5101-002	For more information on considerations while changing Controller application, refer to the section *Maintenance* in *800xA for Advant Master, Configuration (3BSE030340*).*
Primary property is not defined for Advant Master object types. This makes trend configurations somewhat more complicated. 800xAADM-CN-5100-010	It is now possible to configure trend displays by a drag and drop of an Advant Master object.
Wrong data type on property LOCK on MB300 Group Alarm, MB300 Sequence Control, and MB300 Text data object types. 800xAADM-CN-5100-011	This problem has been corrected. The data type is now VT_14.
RTA board backup does not prevent from making mistakes after changing the character conversion language. 800xAADM-CN-5100-012	It is not allowed to perform RTA Board Backup after a changed character conversion language, until a restart of the RTA Board.

Table 206. Configuration Issues (Continued)

Issue	Correction or Fix
MB 300 Node object types for AC 800M and Generic MB 300 node is introduced. 800xAADM-CN-5024-006	For more information, refer to *800xA for Advant Master, Configuration (3BSE030340*).*
Inconsistency in the Object Type Structure reported by Consistency Check tool. 800xAADM-CN-5000-014	The VBPG related inconsistency has been corrected.

Table 207. Operational Issues

Issue	Correction or Fix
Wrong OUT value presented in the reduced faceplate of an MB300 PID Controller. 800xAADM-OL-5101-003	This problem has been corrected.
The alarm list message *Clear Persist* is misleading. 800xAADM-OL-5101-004	The *Clear Persist* message is now replaced with *Alarm Reset*.
Some PG2 Object displays do not have tool tips for interlocking. 800xAADM-OL-5100-013	This problem has been corrected.
MB300 Engineered and Standard drive: It is not possible to change the set point from faceplate. 800xAADM-OL-5100-014	This problem has been corrected.
The MB300 Adaptive PID Controller Trend Display does not show the measured value (MV). 800xAADM-OL-5100-015	This problem has been corrected. The property MV_AAFILTERED is shown in trend display and, the color scheme is according to the available standard.

Table 207. Operational Issues (Continued)

Issue	Correction or Fix
The text *Down* appears in grey color when pressing buttons in the Advant Master faceplates. 800xAADM-OL-5100-016	This problem has been corrected.
It is not possible to operate Advant Master process objects from Multisystem Integration Subscriber system if the 800xA Lock Server is configured for *Operation requires locking*. 800xAADM-OL-5024-001	The problem has been corrected. The current revision of 800xA 5.1 must be installed in Multisystem Integration Subscriber and all Provider systems. A renewed upload to Multisystem Integration Subscriber is needed after the installation.
New lock policy *Operation requires locking* for faceplates. 800xAADM-OL-5024-002	For more information, refer to *800xA for Advant Master, Configuration (3BSE030340*).*
Introduction of adjustable Object Lock release time. 800xAADM-OL-5024-005	For more information, refer to *800xA for Advant Master, Configuration (3BSE030340*).*
Trend Displays showing data from MB300 Valve, MB300 Motor, and Drives objects present generic property names (for example, REAL_RES) instead of descriptive variable names. These names are difficult to understand for an operator. 800xAADM-OL-5020-014	The property description now displays the descriptive name. It is possible to add the Property Description column to a Trend Display to display the descriptive name of the log variable.
The MB300 Valve Faceplate does not indicate transition direction. 800xAADM-OL-5020-015	The PG2 version has been corrected. The destination position is expressed within brackets during transition time.

Table 207. Operational Issues (Continued)

Issue	Correction or Fix
The AlarmControlProperty expressions are defined with implicit property references. 800xAADM-OL-5000-015	The AlarmControlProperty expressions are now defined with explicit property references.
The Daylight Savings shift may display wrong data (close to winter time change) in trend displays based on TTD logs. RTA may stall after the Daylight Saving transition because of increased load caused by a massive collection of historical data. This occurs if huge TTD configurations are used. 800xAADM-OL-4100-014 800xAADM-OL-5022-008	The Time Tagged Data (TTD) is now handled correctly during Daylight Saving transition. There is no increased load in controllers or RTA. A short disturbance might occur for a few minutes during the Daylight Saving transition.

Fixed in 800xA 5.1 Revision A

Table 208, Table 209, and Table 210 lists the Installation, Configuration, and Operation issues that have been corrected in 800xA for Advant Master for 800xA 5.1 Revision A.

Table 208. Installation Issues

Issue	Correction or Fix
It is not possible to use the Control Builder A (CBA) version 1.2/1 (or previous version/revision) with the 800xA system. A newer version of the CBA which supports Windows 7 and Windows Server 2008 is required. 800xAADM-IN-5101-003	It is now possible to use Control Builder A 1.2/1 together with 800xA for Advant Master 5.1. For more information, refer to the product bulletin *3BSE064399*.

Table 209. Configuration Issues

Issue	Correction or Fix
Direct upload from Function Chart Builder (FCB) database file is not supported because the Function Chart Builder does not currently support Windows 7. 800xAADM-CN-5100-003	It is now possible to use Control Builder A 1.2/1 together with 800xA for Advant Master 5.1. For more information, refer to the product bulletin *3BSE064399*.

Table 210. Operational Issues

Issue	Correction or Fix
If a DI object has both alarm conditions Signal error and Value error, it is possible to acknowledge only one of these alarms. The unacknowledged alarm will remain in the Alarm list and it has to be manually deleted. 800xAADM-OL-5023-006	This problem has been corrected. Both the alarm conditions will be acknowledged when one of the alarms are acknowledged.

Fixed in 800xA 5.1

Table 211, Table 212, Table 213, Table 214, and Table 215 lists the Installation, Administration, Configuration, Operation, and Miscellaneous issues that have been corrected in 800xA for Advant Master for 800xA 5.1.

Table 211. Installation Issues

Issue	Correction or Fix
The 800xA Base system may not function as expected if 800xA for Advant Master is uninstalled. 800xAADM-IN-4100-009	For more information, refer to *System 800xA Installation (3BSE034678*).*
Support for Installation in Windows 64-bit operating system. 800xAADM-IN-5100-001	On-line Builder 3.0/2 and an updated PU410 driver are included to support installation in both 32-bit and 64-bit versions of Windows 7 and Windows Server 2008.

Table 212. Administration Issues

Issue	Correction or Fix
Objects related to Advant system alarms may be created in Control Structure > Lost & Found if any character conversion other than English is selected in the RTA Board Control aspect or if the Advant system alarms are rephrased. 800xAADM-AD-5000-005	For more information, refer to *800xA for Advant Master Configuration (3BSE030340*).*

Table 213. Configuration Issues

Issue	Correction or Fix
Multiple Log Configuration aspects on the same object may abort TTD Upload. The TTD Upload displays an error message "Error creating log configuration" if an object has more than one Log Configuration aspect. 800xAADM-CN-5000-007	This problem has been corrected.
Redundant time server does not work if 800xA for Advant Master Connectivity Servers are used as Clock Master. Important 800xAADM-CN-4100-027	This problem has been corrected.
The I/O channels are not created in the Control Structure because the S800 I/O modules are not created in an accurate manner from the FCB upload. Important 800xAADM-CN-5000-002	For more information, refer to *800xA for Advant Master Configuration (3BSE030340*).*
The I/O channels are not created in the Control Structure because the S400 I/O modules are not created in an accurate manner from the FCB upload. 800xAADM-CN-5000-008	For more information, refer to *800xA for Advant Master Configuration (3BSE030340*).*

Table 213. Configuration Issues (Continued)

Issue	Correction or Fix
Configuration changes with respect to transferring events to third party clients in the *AdvMbAeOPCServer.csv* file do not have the documented effect. Important 800xAADM-CN-5022-001 Product Bulletin: 3BSE059389	This problem has been corrected.
After a McAfee VirusScan engine or DAT updates, the McAfee On-Access scanner might cause a performance impact to the 800xA system. This scanner utilizes a considerable amount of CPU resources while performing the update scan. This affects the data subscriptions on 800xA for Advant Master Connectivity Servers. The data received controllers might be lost. This prevents the operator from controlling the plant through 800xA for Advant Master Connectivity Server for several minutes. Important 800xAADM-CN-5022-002 Product Bulletin: 3BSE060580	The 800xA for Advant Master System Version 5.1 has improved the situation when McAfee and other applications consume up to 100% of the CPU resources. The 800xA for Advant Master now accepts longer continuous time without any CPU resource.

Table 214. Operational Issues

Issue	Correction or Fix
In the controller, a process object may remain locked up to 5 minutes in the following scenarios: 1) The power of the connectivity server system is turned off. 2) The connectivity server is disconnected from the MB300 network. The object can be operated after the timeout but the lock (SELECTED) flag in the controller will not be reset to indicate this in the Faceplate. 800xAADM-OL-4100-024	This problem does not occur if the following versions of Advant Controller 400 series are used: 1) Advant Controller 410 *1.5/8 (or later). 2) Advant Controller 450 *2.3/8 (or later). For more information, refer to *800xA for Advant Master Configuration (3BSE030340*).*
The CurrentValue function in Alarm list is not supported. 800xAADM-OL-5020-006	The CurrentValue function is now supported.
If the controller is restarted when there are unacknowledged alarms and the alarm conditions are not active after restart, these alarms cannot be acknowledged. 800xAADM-OL-4106-002	This problem has been corrected.
The OPC DA service provider may restart after closing the Local Device display or the Group Alarm display. As a consequence, the subscribed data in Graphic Displays (for example) are displayed as bad for a few seconds. Important 800xAADM-OL-4106-003	This problem has been corrected.

Table 214. Operational Issues (Continued)

Issue	Correction or Fix
The events corresponding to MMCX objects may appear in the alarm list when alarm handling is not blocked. These events cannot be acknowledged. Important 800xAADM-OL-5010-004	The events from MMCX objects will now be presented correctly.
AC 400 Connectivity Server Communication Display for MB300 nodes may report incorrect status. Important 800xAADM-OL-4106-004	This problem has been corrected.
The behavior and appearance of the VB graphic element **DatB: IndicatorText01** does not change after selecting a horizontal alignment (Left, Center, or Right) for this graphic element. 800xAADM-OL-5100-004	The alignment now follows the property alignment. The appearance of the graphic element may now be different compared to the previous version which require manual adjustment in the graphic display.
Increased detection time of lost communication with PU410 after restart of RNRP. 800xAADM-OL-5100-007	This problem has been corrected. It is now detected if RNRP is restarted.

Table 215. Miscellaneous Issues

Issue	Correction or Fix
If 800xA Base System Version 5.0.0 SP2 Ru2e is installed after installing the RTA Unit PU410 Support, the RNRP configuration done by RTA Unit PU410 Support installation is lost. This results in a considerable longer detection time for the lost connection between Connectivity Server and RTA Unit PU410. Important 800xAADM-MS-5020-010 Product Bulletin: 3BSE058295	This problem has been corrected.

Section 20 800xA for Safeguard

This section details the Fixed Problems for 800xA for Safeguard that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1

Table 216, Table 217, Table 218, and Table 219 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in 800xA for Safeguard for 800xA 5.1.

Table 216. Installation Issues

Issue	Correction or Fix
Un-installation of the 800xA for Safeguard does not remove RTA specific configurations. 800xASAG-IN-4100-002	For more information on the procedure to remove RTA specific configuration, refer to *System 800xA Maintenance (3BSE046784*)* and *System 800xA Upgrade (3BSE036342*)*.

Table 217. Administration Issues

Issue	Correction or Fix
RTA Board application data is not included in the export files created by the import/export tool. 800xASAG-AD-4100-003	For more information on the procedure to include RTA Board application data, refer to *System 800xA Maintenance (3BSE046784*)* and *System 800xA Upgrade (3BSE036342*)*.

Table 218. Configuration Issues

Issue	Correction or Fix
Function Chart Builder (FCB) uploader released with Control Builder A does not function with FI, GI and FD function units. 800xASAG-CN-4100-009	For more information on procedure, refer to *800xA for Safeguard Configuration (3BNP004848*)*.
Some graphics do not function as required. 800xASAG-CN-5100-013	Updates are done to the graphics, **GenUsd5**:Object Display NE, **GenUsd6**:Object Display ND, **GenUsd6**:FaceplateND, **Binary**:SD_Valve01, **Group**:ObjectDisplayFG and **MB300FI**:ObjectDisplay. The graphical elements **SD_Display01** and **SD_Display02** can be migrated from VB (Visual Basic) 6.0 to PG2. (Process Graphics).
It is not possible to scale all graphic elements including the graphic elements with text strings. 800xASAG-CN-5100-012	PG2 graphic elements are scalable.

Table 219. Operational Issues

Issue	Correction or Fix
In a faceplate, the user can activate a lock mode for an object to prevent other operators to view and control that object. This object may appear to be locked only in one of the two sides of a dual Safeguard system. 800xASAG-OL-4100-007	For more information, refer to *800xA for Safeguard Operation (3BNP004849*)*.
If one of the controller in a dual Safeguard system connected to the MB300 network is restarted, the current trend logging stops progressing for a short period of time. 800xASAG-OL-4100-008	For more information, refer to *800xA for Safeguard Operation (3BNP004849*)*.

Section 21 800xA for AC 870P / Melody

This section details the Fixed Problems for 800xA for AC 870P / Melody that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 222 and Table 223 lists the Configuration and Operation issues that have been corrected in 800xA for AC 870P / Melody for 800xA 5.1 Revision E.

Table 220. Configuration Issues

Issue	Correction or Fix
Failure of inactive Melody Connectivity Server after online deletion of tags Online deletion of tags can fail if a tag is repeatedly created and deleted. This can cause the inactive Melody Connectivity Server to stop working when synchronizing tags. 800xAMel-CN-5144-02	This problem has been corrected. **Note:** This issue is also corrected in 800xA 5.1 FP4 Rev E with 800xA for Melody S-FP 5.1.2-2 RU.
Alarm count is wrong after tag modification or tag inhibited changes After modifying a tag the alarm list can wrongly show alarms as disabled and the alarm count shown in Alarm Band can be wrong. Further changes of alarm states can result in a negative alarm count. After removing the inhibit flag of a tag the next alarm state changes can be wrongly displayed in alarm list as disabled and the alarm count shown in Alarm Band can be wrong. 800xAMel-CN-5140-01	This problem has been corrected. Handling of alarms after tag inhibit changes has been changed to correct the problem. Tag inhibit changes will be immediately visible in alarm list. **Note:** This issue is also corrected in 800xA 5.1 FP4 Rev E with 800xA for Melody S-FP 5.1.2-2 RU.
Deleting a tag triggers an alarm refresh Deleting a tag triggers an alarm refresh in 800xA. Alarms that have been deleted in alarm list are sent out again. 800xAMel-CN-5140-02	Deleting a tag will no longer trigger an alarm refresh in 800xA. **Note:** This issue is also corrected in 800xA 5.1 FP4 Rev E with 800xA for Melody S-FP 5.1.2-2 RU.

Table 221. Operational Issues

Issue	Correction or Fix
Failure of Melody Connectivity Server after losing connection to a controller The Melody Connectivity Server can stop working if it loses the connection to a controller during put operations. If the connection problem to a controller reoccurs after its redundant partner gets active, both servers of a redundant pair can fail. 800xAMel-OP-5144-01	This problem has been corrected. **Note:** This issue is also corrected in 800xA 5.1 FP4 Rev E with 800xA for Melody S-FP 5.1.2-2 RU.

Fixed in 800xA 5.1 Revision D

Table 222 and Table 223 lists the Configuration and Operation issues that have been corrected in 800xA for AC 870P / Melody for 800xA 5.1 Revision D.

Table 222. Configurational Issues

Issue	Correction or Fix
Upload of Log Configurations does not work correctly if there is more than one Log Configuration Aspect per tag. Log Configuration Aspects added to the object types in 800xA in order to archive signals that do not have an archive configuration in the composer causes the following problems: • The archive configuration from composer might not be uploaded correctly to 800xA. • The Configuration Admin Aspect might wrongly show differences for these tags. For the correct upload of Log Configurations, one Log Configuration Aspect per tag is supported. This Aspect is either created and modified according to the configured history configuration in the Composer or protected and can be modified manually. 800xAMEL-CN-5101-003	This problem has been corrected. The following Log Configuration Aspects can exist in parallel to the Log Configuration Aspects created for the archive configuration in the Composer: • Log Configuration Aspects added to an object type in 800xA. • Log Configuration Aspects added to a tag in 800xA and protected from overwriting during upload (*using Aspect key Melody No Log Configuration Update*). **Note:** The archive configuration in the Composer is always uploaded into 800xA. Therefore manually configured Log Configuration Aspects should only contain archive configurations that are not configured in the Composer.

Table 222. Configurational Issues (Continued)

Issue	Correction or Fix
Upload of SFCs into 800xA can fail for big SFCs Big SFCs (*several hundreds of steps and transitions*) can cause both the manual upload and the automatic upload to fail. 800xAMEL-CN-5101-004	This problem has been corrected.
Specific unusual configuration of a CLCD tag can cause the Melody Connectivity Server to stop working. A potentially dangerous configuration is a CLCD tag that has the packed Boolean sub signals: DMAN_1 configured DAUT_1 not configured These configurations are dangerous if additionally the assigned alarm template defines the DMAN_1 signal not to generate the alarms. 800xAMel-CN-5102-002	This problem has been corrected.

Table 223. Operational Issues

Issue	Correction or Fix
Missing Return to Normal for system alarm Cnet(C) failure of a unit For system alarms of type **Cnet(C) failure of a unit** (message number: 911) the active message and the return to normal message are sent from different controllers. If these controllers are assigned to different Connectivity Servers, then the **Return to Normal** message will not be displayed in the 800xA Operation and the alarm will still be displayed as active in the alarm list even if the failed unit is up and running again. 800xAMEL-OP-5101-005	This problem has been corrected. The system alarm **Cnet(C) failure of a unit** (message number 911) is changed from a dual alarm to a single alarm. Upon transition into active state the Melody Connectivity Server sends this active alarm to the alarm list to inform about the failure of a unit. The return to normal message is no longer available. Other alarm messages that will be created due to a failure of a unit are not affected by this correction.
Operation via Melody Connectivity Server may not be possible In very rare constellations, it may happen that the operation of Melody functions through a Melody Connectivity Server is not possible. This problem can happen, if cyclic write commands by a management application, such as PGIM is generated in exactly 60 seconds cycle and no further write commands in a cycle <60 seconds be executed. 800xAMEL-OP-5102-001	This problem has been corrected.

Fixed in 800xA 5.1 Revision B

Table 224 and Table 225 lists the Configuration and Operation issues that have been corrected in 800xA for AC 870P / Melody for 800xA 5.1 Revision B.

Table 224. Configuration Issues

Issue	Correction or Fix
Faceplate mapping causes unapproved faceplates. Faceplates for existing tags need to be approved manually. Tags configured with other faceplates than the default one showed the faceplate as **unapproved**. 800xAMEL-CN-5100-004	This problem has been corrected. Faceplates for new tags will be approved automatically.
Uploader stops during upload of SFCs. Some SFC configurations could not be uploaded into 800xA. Manual upload with **SFC/IDF Viewer configuration** option or automatic upload stopped. 800xAMEL-CN-5020-007	This problem has been corrected.
Text with none-latin characters are not readable. A tag description with none-latin characters (e.g. Chinese) is not readable after uploading into 800xA (this is not a problem for only if there is a 800xA for Melody NLS package for the language). 800xAMEL-CN-5101-002	This problem has been corrected. This is supported in Composer Melody (extended NLS support).

Table 225. Operational Issues

Issue	Correction or Fix
Wrong alarm indication in faceplate for not configured CSCAUX signals. Faceplates for IDF or CLCD could wrongly indicate alarms for signals from CSAUX extension which were not configured (MX1 - MX4). 800xAMEL-OL-5020-008	This problem has been corrected.
IDF Viewer call up faceplate from list view does not work. The IDF Viewer and the Control Condition windows did not allow to call up the faceplate for a displayed tag from list view. 800xAMEL-OL-5101-001	This problem has been corrected.

Fixed in 800xA Revision A

Table 226 lists the Configuration issues that have been corrected in 800xA for AC 870P / Melody for 800xA 5.1 Revision A.

Table 226. Configuration Issues

Issue	Correction or Fix
Tags running in a controller but not configured in 800xA (or vice versa) cause error messages from the Melody OPC Server. A huge amount of error messages can result in a memory leak of the Melody Server process on connectivity servers, in particular if these tags generate alarm and events. Important 800xAMEL-CN-5100-001	This problem has been corrected.

Fixed in 800xA 5.1

Table 227 lists the Configuration issues that have been corrected in 800xA for AC 870P / Melody for 800xA 5.1.

Table 227. Configuration Issues

Issue	Correction or Fix
Moving an existing tag from one controller to another by using Composer might cause the tag to vanish from operation. 800xAMEL-CN-5000-007	This problem has been corrected.

Section 22 800xA for DCI

This section details the Fixed Problems for 800xA for DCI that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 229 lists the Operational issues that have been corrected in 800xA for DCI for 800xA 5.1 Revision E.

Table 228. Operational Issues

Opening a CCL window from a multiple screen workplace may open on a different screen than the screen where CCL window was called. If multiple CCL windows are open, it is difficult to know which CCL window belongs to which faceplate. 800xADCI-OL-5102-002	The CCL window will now open on the monitor where the CCL window was called. Multiple screen workplaces should be configured as described in ***3BSE030322* System 800xA Operations Operator Workplace Configuration*** manual.
DI alarms can change condition from Discrete to Security, causing duplicate alarms to be displayed in the Alarm List. 800xADCI-OL-5102-003	DI alarms have been fixed so that their condition does not change if the DCI Alarm and Event Service Provider fails over.
Operator Call Events may become unacknowledged. 800xADCI-OL-5102-004	Operator Call Events have been fixed to be always acknowledgeable.

Table 228. Operational Issues (Continued)

800xA for DCI OPC DA Server may crash and automatically restart. 800xADCI-OL-5023-003	A decimal to string conversion issue that can lead to a crash in the 800xA for DCI OPC DA server has been corrected.
800xA for DCI System and Process alarms may not be acknowledgeable after an AE Server failover. Product Bulletin: 3BUA002559 800xADCI-OL-5023-004	Internal 800xA for DCI Alarm processing has been changed to allow all alarms to be acknowledged after AE Server failovers.
It may not be possible to acknowledge a Bad Input/Output alarm after the following sequence of events: 1. Module goes into Bad Input/Output (*that is, by removing wires during maintenance*). 2.Point goes out of Bad Input/Output directly into alarm (that is, by reconnecting the wires). 3.Point goes back to Normal. 4.Attempt to acknowledge the alarm. The process alarm will be acknowledged, but the Bad Input/Output alarm may not be. 800xADCI-OL-5102-001	Input/Output alarms have been fixed to allow acknowledgement after a Bad Input/Output alarm has returned to normal.

Fixed in 800xA 5.1 Revision B

Table 229, Table 230, and Table 231 lists the Configuration, Operation, and Miscellaneous issues that have been corrected in 800xA for DCI for 800xA 5.1 Revision B.

Table 229. Configuration Issues

Issue	Correction or Fix
The CCL View window has a limited width, and will not display the end of long CCL lines. 800xADCI-CN-5022-004	The CCL Display window was a fixed size. Code lines that displayed wider than the fixed width were truncated and could not be displayed. The display window was modified to calculate the width required and to stretch the underlying window width to cover the full text.
Errors are found in the object type structure for DCI libraries when using the Consistency Checker Tool. 800xADCI-CN-5101-003	Some DCI PG2 faceplate elements were configured with non-existent items. These items were not used on the element, but they did cause consistency errors when checked. The non-existent items were removed from the faceplate elements.
In combined Conductor NT and 800xA for DCI Connectivity Server nodes, the network tables on the 800xA for DCI Connectivity Server may be corrupted, causing network issues such as nodes going up and down on the Conductor NT System Status display, network services not completing startup, etc. 800xADCI-CN-5101-005	Network tables that are not required for 800xA for DCI operation are deleted. The DCI section **hosts** table is cleaned out of any existing corruption. The 800xA for DCI Connectivity Server is automatically put in the Console Group 51, so this will no longer synchronize the **hosts** file with the Conductor NTs.

Table 230. Operational Issues

Issue	Correction or Fix
DCI alarms sometime stop updating in 800xA 5.1. This is caused by multi-threading issues in the DCI network level dynamic link library, nwkdll.dll. The problem occurs when the DCI OPC AE server is processing a list of alarms and a request to acknowledge an active alarm is received from 800xA. The problem causes the DCI OPC AE server to hang up and stop processing alarms and events. Since the DCI OPC AE server has not stopped, there is no indication to 800xA that DCI alarms and events are not being reported, and no indication that the AE server should be failed over to a standby server. 800xADCI-OL-5101-006	The problem has been fixed by removing the separate acknowledge thread, and sharing the alarm processing with the acknowledgement processing in the same thread.
PSLV VB6 display shows bad quality for some of the slaves if there are more than 16 slaves and the NEXT and BACK buttons are pushed. 800xADCI-OL-5020-029	The VB6 PSLV display sometimes displayed a red field with a white X to show bad data quality, even though the data was received with good quality. The display was corrected to not show bad quality when good data was received.

Table 231. Miscellaneous Issues

Issue	Correction or Fix
The version of tsyncCtrl.exe shipped with 800xA for DCI 5.0 and 5.1 (and all revisions) does not work properly. It starts and then exits with no output. 800xADCI-MS-5020-030	TsyncCtrl.exe has been modified to show the output message in a MessageBox dialog.
In 800xA for DCI systems with multiple DCI control networks (CNETs), the command `>tsyncctrl msite` returns the error message **communication error**. Run the command `>tsyncctrl msite` from any Conductor NT or Composer CTK node on each of the multiple DCI control networks (CNETs) to determine the time sync master on that network, which should be the related 800xA for DCI Connectivity Server at Priority 10. 800xADCI-MS-5020-031	The tsyncCtrl task produces the **communication error** message when there is a communication timeout. This happens whenever the tsyncdd service is not running. The tsyncCtrl task was changed to display the message **Communication timeout** instead of **communication error** under this circumstance.
The text in the Tsyncdd Application Event Log box is not correct. In particular, the node identified in the message is not the time master. However, the Event ID is correct. 800xADCI-MS-5020-032	The Tsyncdd service registers message formats correctly with 800xA 5.1 Rev B. Events now appears correctly in the Windows Application Event log.

Fixed in 800xA 5.1 Revision A

Table 232 lists the Operation issues that have been corrected in 800xA for DCI for 800xA 5.1 Revision A. .

Table 232. Operational Issues

Issue	Correction or Fix
A system with 800xA Batch for DCI connected to two or more DCI Control Networks places all service providers under one single service group. They should be in separate service groups. Batches using the second or greater Batch Service Provider fail. 800xADCI-OL-5021-006	A separate service group is now created for each Batch Service Provider. The name of each service group is made unique by adding the name of the Batch Service Provider node to the string "SG_DCI_Batch_". Therefore, each Batch Service Provider is in its own Service Group, and batches can be scheduled from all Batch Service Providers simultaneously.
When the SEQ module extended faceplate is displayed, selecting the SEC tab will cause a first chance exception. The same is true for the PBUS module extended faceplate. 800xADCI-OL-5021-008	First chance exceptions are no longer generated for these two extended faceplates.
For persons logged in without Operate privileges, certain PG2 faceplate values will not display. 800xADCI-OL-5021-010	The affected PG2 faceplates now operate in read-only mode for persons logged in without Operate privileges.
Workplace crashes when adjusting an output/ setpoint on faceplates for a control loop. 800xADCI-OL-5021-011	The workplace no longer crashes when adjusting an output/ setpoint on the affected faceplates.
Only 32 slaves are shown on the PBUS faceplate, which should show up to 64. 800xADCI-OL-5022-002	The PBUS faceplate was corrected to show up to 64 slaves.

Table 232. Operational Issues (Continued)

Issue	Correction or Fix
When an active AE Server is failed, SEND_ABE messages can no longer be acknowledged. Also affects the messages sent from the DCU using the MSG module. 800xADCI-OL-5022-001	SEND_ABE and MSG module messages can now be acknowledged correctly on recovery of a failed AE Server.
FBLK Module, The Pointers are not displayed correctly in the FBLK Module 800xADCI-OL-5022-003	From the 800xA for DCI 5.1 release and later, the FBLK pointers are displayed correctly.
The 800xA for DCI Configuration Manual Time Synchronization of DCU is not clear. 800xADCI-MS-5100-005	Additional information is provided in, *800xA for DCI Configuration (3BUA000135*)*, Section 4 - Network Services > Time Synchronization of DCU. The *800xA for DCI, Configuration (3BUA000135*)* manual is available with the System 800xA 5.1 Rev A distribution.
The 800xA for DCI, Installation-Upgrade-Post Installation-Maintenance Supplemental Instructions (3BUA001686*) is updated for the System 800xA 5.1 Rev A release. **NOTE:** Verify that the 800xA for DCI firewall settings are configured correctly as described in the *Post Install* section of the *800xA for DCI, Installation-Upgrade-Post Installation-Maintenance Supplemental Instructions (3BUA001686*)* manual after update to 800xA 5.1 Rev A. 800xADCI-MS-5100-990	The *800xA for DCI, Installation-Upgrade-Post Installation-Maintenance Supplemental Instructions (3BUA001686*)* manual is updated and available with the System 800xA 5.1 Rev A distribution.

Section 23 800xA for Harmony

This section details the Fixed Problems for 800xA for Harmony that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 233 and Table 234 lists the Configuration and Operation issues that have been corrected in 800xA for Harmony for 800xA 5.1 Revision E.

Table 233. Configuration Issues

Issue	Correction or Fix
Deleting an 800xA for Harmony tag object that is currently configured as an inhibit tag for another 800xA for Harmony tag object when on-line tag configuration change processing is enabled could result in 800xA for Harmony Connectivity Server stability issues. 800xAHAR-CN-5022-003	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.

Table 233. Configuration Issues (Continued)

Issue	Correction or Fix
The Harmony Synchronizer will remove the Harmony tag objects from all locations in the Functional Structure before re-inserting them under the Harmony Navigation or Harmony Security Functional Structure hierarchies when the Functional structure objects (Area, Equipment, and Unit) or Tag security associations Import options are selected. 800xAHAR-CN-5022-004	The Harmony Synchronizer has been updated to only remove Harmony tag objects from the Harmony Navigation and Harmony Security hierarchies when these Import options are selected. Any Functional Structure inserts users have done outside of the Harmony Navigation and Security hierarchies will be preserved. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
The VB Graphics Migration Tool will not show migrated Aspects for the 800xA for Harmony INFI 90 Harmony Analog Read and INFI 90 Harmony Station Read object types. Internal data within the reduced faceplate element for Analog Reads and the point display element for Stations cause this issue. 800xAHAR-CN-5100-008	800xA for Harmony INFI 90 Harmony Analog Read and INFI 90 Harmony Station Read object type faceplate elements have been fixed to allow VB Graphics Migration. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3
When an Infi90 Harmony Station Read in Computer Mode, an Operator is able to perform control operations. 800xAHAR-CN-5101-010	This has been fixed for PG2 and VB faceplates. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.

Table 233. Configuration Issues (Continued)

Issue	Correction or Fix
800xA for Harmony Restore Configuration fails when attempting to restore an 800xA for Harmony Backup if more than three Primary Harmony Server objects are configured in the 800xA for Harmony Configuration Server. A window is displayed indicating that the "Restore operation has been ABORTED due to errors" when this occurs. 800xAHAR-CN-5102-010	This issue has been corrected. **Note:** A correction for this problem was released in 800xA for Harmony 5.1 RU3, but it did not handle all cases. Issues found have been corrected in 5.1 Rev E.
All the available Module Problem reports may not be displayed in the Harmony Module Details Aspect. 800xAHAR-CN-5102-010	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
Adding trailing blank characters to the Inhibit Tag.Property field in the **TagConfig** Aspect can cause the Harmony Server to fail. 800xAHAR-CN-5102-016	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.

Table 233. Configuration Issues (Continued)

Issue	Correction or Fix
If the Harmony Synchronizer is run from a non-Administrator Application Engineer Group user account, the Harmony Tag objects are not placed into the hierarchical Loop-PCU-Module tree in the Control Structure. 800xAHAR-CN-5102-019	This issue has been corrected for tags that already exist in the Harmony Configuration Server database. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3. An unresolved issue exists with synchronizing new tags added into the Control Structure to the Config Server database with the export option. This will not work unless the user is logged into an Administrator account.
The Harmony Bulk Configuration Manager may display the error message, "Method 'Copy' of object 'Range' failed", when querying for Objects or submitting changes. 800xAHAR-CN-5103-001	The internal logic that clears data from a previous query in the Harmony Bulk Configuration Manager worksheet has been corrected.

Table 234. Operational Issues

Issue	Correction or Fix
Writing a RedTag Key string containing either more than three characters or containing non alpha-numeric characters could result in a Harmony Server failure. 800xAHAR-OL-5101-011	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
A problem has been reported where signals on a graphic display went bad quality due to an internal locking problem in the 800xA for Harmony OPC DA Server. 800xAHAR-OL-5022-030	Internal error handling logic has been improved in the 800xA for Harmony OPC DA Server to lessen the chances of an internal locking issues occurring. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
The Enhanced Analog Input, Enhanced Analog Output, Enhanced Digital Input and Enhanced Digital Output Faceplate button operation is reversed for the Normal Input Mode and User Input Mode. 800xAHAR-OL-5101-012	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
The OPCDA Harmony Service Provider can remain in Initialize after a reboot due to a timing problem. 800xAHAR-OL-5101-013	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.

Table 234. Operational Issues (Continued)

Issue	Correction or Fix
800xA for Harmony may incorrectly report a resource shortage for Non-paged Pool Memory. If this occurs, the Harmony Server Tag Object status will change to Internal Error, a Low Resource Alarm will be generated, and failover to a redundant Harmony Connectivity Server may occur. 800xAHAR-OL-5102-008	The Non-paged Pool Memory limit check values were set too low for Microsoft Windows Server 2008. These limits have been increased. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
An "Invalid License Granted: No such feature exists" license error for the AO_NET_MON feature can be generated for some configurations. 800xAHAR-OL-5102-009	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
A timing problem exists at startup in which the 800xA for Harmony EbServerBroker service can fail and then restart. If this occurs, the Harmony Servers and Event Concentrator status will be "Unavailable" on the node. 800xAHAR-OL-5102-012	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
An application error or crash may occur during the startup of the Harmony EbI90Server process. 800xAHAR-OL-5102-013	Process startup errors have been corrected for the Harmony EbI90Server process. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.

Table 234. Operational Issues (Continued)

Issue	Correction or Fix
After fail-over of redundant 800xA for Harmony Connectivity Servers, Module Status Tag alarms that had been previously acknowledged may appear again as unacknowledged. 800xAHAR-OL-5102-014	A timing issue was found at startup that could result in erroneous BAD quality alarm and Module Status Tag alarm return to normal events being generated. When this occurred during startup of an inactive Harmony Sever, upon failover these events would appear as new unacknowledged alarms. The startup logic has been updated to better prevent erroneous BAD quality alarm return to normal events from being generated. **Note:** This change was included in 800xA for Harmony 5.1 RU3.
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. **Note:** This change was included in 800xA for Harmony 5.1 RU3.
800XA for Harmony batches may generate acquire errors trying to acquire a unit. 800xAHAR-OL-5102-017	A correction was made to the Harmony Server PhaseX Tag security checking to resolve this issue. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.

Table 234. Operational Issues (Continued)

Issue	Correction or Fix
Harmony alarms are not displayed in the Alarm & Event list until after specs (Alarm Limits, Process Limits, Alarm State information, etc.) are received for a tag at startup. It is possible that there may be a delay between startup and receiving specs for a tag. A related issue is that all Harmony tag properties are initialized to good quality at startup before specs and process values have been received. 800xAHAR-OL-5102-018	The Harmony Server will now generate alarms for a tag if specs have not yet been received. All loadable spec tag properties are now initialized to Uncertain (Sub-normal) until specs are received. Value tag properties are now initialized to Uncertain (non-specific) until a process value is received from the Control System. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
The Faceplate Element region of the ASCII Text Tag VBPG Faceplate is blank. 800xAHAR-OL-5102-020	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
The Harmony Server does not restart ICI when an ICI watchdog time-out occurs. 800xAHAR-OL-5102-021	The Harmony Server logic was updated to better detect ICI watchdog time-out conditions and to restart the ICI if a watchdog time-out is detected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
The Harmony Server may not detect the disconnection of an IET800 or PNI800 from the network, and does not initiate an immediate failover if an ICI is unexpectedly disconnected. 800xAHAR-OL-5102-022	The Harmony Server ICI error handling has been updated to better detect IET800 and PNI800 network disconnects and failures, and to initiate a failover when an ICI failure is detected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.

Table 234. Operational Issues (Continued)

Issue	Correction or Fix
Trying to change manual/auto, user inserted value, force exception report or any other control action on DAANG tag may generate "red-tagged" system (SY) event even though the tag is not red-tagged. 800xAHAR-OL-6000-001	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
The Harmony Module Status Tag Aspects that display Module Type incorrectly identify the SPIEB800 INFI-Net to PNI800 Plant Network Bridge module as an IIT05. 800xAHAR-OL-6000-004	This issue has been corrected. **Note:** This problem has been corrected in 800xA for Harmony 5.1 RU3.
A PG2 based 800xA Harmony Batch PhaseX Faceplate was not provided in 800xA 5.1 Rev B and earlier revisions. 800xAHAR-OL-5102-003	This issue has been corrected.
The PhaseX VB extended faceplate parameter tab does not display the phase parameters. 800xAHAR-OL-5102-004	The current phase parameter values are now displayed by selecting the **Refresh** button on the Parameters tab of the extended PhaseX VB Faceplate.
The PhaseX VB faceplate does not display the Recipe ID text correctly. 800xAHAR-OL-5102-005	The Recipe ID text is now displayed correctly.

Table 234. Operational Issues (Continued)

Issue	Correction or Fix
The PhaseX VB extended faceplate program tab Initialize Data 'Hot' button does not function correctly. 800xAHAR-OL-5102-006	The Initialize Data Hot functionality of loading a new version of the B90 Program into memory while preserving B90 global data when no phases are active and the Unit is acquired has been corrected.
After failover of redundant 800xA for Harmony Connectivity Servers, the **Active Times** of existing Harmony alarms can change. 800xAHAR-OL-5022-029	Active Times for active alarms are now synchronized at server startup. A synchronizing icon is now displayed in the Harmony Server faceplate during the synchronization process. Enabling Module Time Stamping on the Harmony Connectivity Servers will help to minimize the differences in Active Times after startup.

Fixed in 800xA 5.1 Revision B

Table 235 and Table 236 lists the Installation and Operation issues that have been corrected in 800xA for Harmony for 800xA 5.1 Revision B.

Table 235. Installation Issues

Issue	Correction or Fix
On 800xA version 5.1 Rev A and 5.1 64-bit systems, Harmony's installation overwrote a Windows Registry entry that could cause COM component registration to fail. 800xAHAR-IN-5101-006	This problem has been corrected.

Table 236. Operational Issues

Issue	Correction or Fix
When a number of independent requests for data are done, the SymOPCServer has the possibility of not responding to the requests. This would be seen from the user point of view as an Add Item failure. This issue has been seen when dragging and dropping Harmony tag objects onto a trend Aspect. 800xAHAR-OL-5021-009	The SymOPCServer has been modified to correct this issue, where under certain conditions, data requests are not handled correctly.
On 800xA version 5.1, 5.1 Rev. A, and 5.1 64-bit Harmony Configuration Server nodes, SQL Server gradually consumes memory and eventually interferes with other applications. If the Harmony Tag Importer Exporter tool is used, the tool displays **Out of memory** error message. 800xAHAR-OL-5100-007 Product Bulletin: 3BUA002126	SQL Server memory usage has been constrained so it will not consume all available memory in many instances. The issue still may occur if the Harmony Configuration Server has more than four CPUs. See Known Problem issue *800xAHAR-OL-5102-011* for workaround information for this case.
On 800xA version 5.1 Rev A and 5.1 64-bit systems, AO license violations are encountered when there is a **IT Server service provider** running on a Harmony Connectivity Server. 800xAHAR-OL-5101-005	This problem has been corrected.

Fixed in 800xA 5.1 Revision A

Table 237, Table 238, Table 239, and Table 240 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in 800xA for Harmony for 800xA 5.1 Revision A.

Table 237. Installation Issues

Issue	Correction or Fix
After installing an 800xA for Harmony rollup, the product version was not updating in Add or Remove Programs. The product version in Add or Remove Programs was that of the 800xA for Harmony base installation. 800xAHAR-IN-5021-003	A new installation package has been created to install 800xA for Harmony 5.1 Rollup 1. The new installation package creates a separate entry for the rollup in Add or Remove Programs. This allows uninstallation of the of 800xA for Harmony rollup using Add or Remove Programs, when necessary.

Table 238. Administration Issues

Issue	Correction or Fix
The 800xA for Harmony documentation does not list a supported PCI Express SCSI adapter, which is necessary for newer connectivity servers. 800xAHAR-AD-5100-004	The *System 800xA System Guide Technical Data (3BSE041434*),* Table 102 is updated with the following information. The Adaptec 29320LPE PCIe SCSI card driver version 7.2.0.0, which is included with the Windows 2008 Server operating system is not supported by 800xA for Harmony version 5.1. If the 7.2.0.0 version of the Adaptec driver is loaded the Harmony server will not go online. The 7.2.0.0 version of the driver must be updated by rebooting in safe-mode and installing the 7.0.0.10 or later version of the Adaptec driver which can be downloaded from the Adaptec web site.
The 800xA for Harmony OPC DA Server fails to start on computers with 15 character names. 800xAHAR-AD-5020-016	The 800xA Harmony OPC DA Server now supports 15 character computer names.

Table 239. Configuration Issues

Issue	Correction or Fix
Harmony customers upgrading from Process Portal B (PPB) expect Harmony Tags that have the **Acknowledge** check box cleared to not appear in current Alarm Lists. 800xAHAR-CN-5021-005	Acknowledge Required is now an exposed attribute to 800xA and therefore can be filtered from view in Alarm Lists. Updated Harmony Alarm List configurations to perform this filtering are provided with this correction.
DAANG tag type multilevel alarm comment fields are not supported by Harmony Import/Export tool. LO2, LO3, HI2, HI3 fields do not import and do not export from 800xA for Harmony. For setting Alarm Priorities, Composer has only one field for Return to Normal priority. In the Harmony Configuration Server there is one Return to Normal priority for each separate Alarm condition. During import of Composer database to the ConfigServer only the BAD/PRI0 - Return to Normal after BAD Alarm - field of the ConfigServer DB is mapped to the Composer DB and populated with the correct value. All other ConfigServer Return to Normal priority fields revert to a default value of 16. The same is true for the Return to Normal Alarm Comment fields. 800xAHAR-CN-5010-008	Harmony Import/Export tool is modified to support this issue for 800xA for Harmony. The Import/Export Tool automatically maps all the Return to Normal (RTN) fields to one field in Composer during Import. Correction for this issue also requires that Composer be updated to contain the necessary mechanism for exporting these fields. The Composer 5.1 update is scheduled for 2Q2011.

Table 240. Operational Issues

Issue	Correction or Fix
800xA for Harmony operation disrupted during failover. 800xAHAR-OL-5020-022	The 800xA for Harmony software is improved to better handle failover by using RNRP services when the computer is disconnected from the ethernet network or powered down. Enable/disable the RNRP-based switchover functionality via "HKLM\SOFTWARE\ABB\Common\UseSymRNRP Helper" registry key value.
Using hot-keys within the Harmony Operator Workplace to ramp control values can occasionally use a temporarily bad quality zero value to base the ramp increment. 800xAHAR-OL-5020-023	The Scripting Aspects used to implement hot-keys now check quality for every value and will not perform output commands if bad quality is present.
Harmony Tags that have the **Acknowledge Required** check box cleared and are in Alarm, can disappear from Alarm Lists when a Harmony Server failover occurs. 800xAHAR-OL-5021-007	Logic in the Alarm and Event system was updated so these alarms appear regardless of Harmony Server failovers.
The Harmony Connectivity Server should failover on a high CPU utilization condition. 800xAHAR-OL-5020-019	Added a high CPU load resource alarm definition to the configuration XML file. If the average CPU load exceeds 70% busy (LowLimit), the I90 Server and Event Concentrators will have their quality-of-service values lowered. Subsequently, when the CPU load goes below 70% busy (LowLimit), the quality-of-service values will be restored to normal.

Table 240. Operational Issues (Continued)

Issue	Correction or Fix
800xA for Harmony Block Details supports two new INFI 90 function codes at this System 800xA 5.1 REV A release. 800xAHAR-OL-5100-005	The 800xA for Harmony database is updated to recognize two new function codes recently introduced in a recent firmware revision for BRC 300/400 modules. The function codes are: • FC 48 - Analog Exception Report with Hi/Lo Alarm Deadband • FC 67 - Digital Exception Report with Alarm Deadband
The 800xA for Harmony OPC DA Server fails to start on computers with 15 character names. 800xAHAR-OL-5021-002	The 800xA Harmony OPC DA Server now supports 15 character computer names.
The ThinClient application crashed in a virtualized Harmony Connectivity Server machine environment. When the ABB Security Update Tool is used to install the 27 October 2010 Microsoft Critical Updates on an 800xA for Harmony System, the Harmony Web Aspects for Block Details, Module Details, and Operating Parameters no longer work. When these Aspects are called on an 800xA 5.1 Windows Server 2008 node, the Microsoft w3wp.exe process will crash. 800xAHAR-CN-5100-006	The installation of either MS10-065 (KB2124261) or MS10-070 (KB2416470) caused the issue. The issue occurred when the ABB Security Update tool runs for the first time. The ABB Security Update Tool was reworked to resolve this issue.
High memory consumption of Alarm manager service if a large number of scripting Aspects is used in the system. For example, large Harmony systems will experience this issue. 800xA-SYS-OL-5022-028	Scripting Aspect behavior has been changed to avoid high memory consumption.

Table 240. Operational Issues (Continued)

Issue	Correction or Fix
Bad Quality alarms that are generated when pulling out modules cannot always be acknowledged once they return to normal. 800xAHAR-OL-5020-017	Enabled event-point quality change handling, for BAD event-points, thus active BAD alarms in the Event Page will now show the OPC quality values that caused the alarms to occur. The alarms can be acknowledged after they return to normal
Numerous events are received in the OPC AE event log that are from the Harmony Server displaying "No error found in Structure". These events are priority system messages of type Diagnostic and they fill the buffer. 800xAHAR-OL-5020-021	Corrected the Global Alarm Acknowledge transmission logic in the I90 Server. A potential workaround for the problem in previous releases was to clear the "Enable Alarm Acknowledgement Transmission" check box in all Harmony Module Status object configuration.
The I90 Server does not return an ABBspecific error code for a case when an already acknowledged alarm is acknowledged a second time. This can happen, for example, when an operator is repeatedly clicks the "Acknowledge" or "Page Acknowledge" buttons in the 800xA Alarm & Event List display. 800xAHAR-OL-5020-020	The I90 Server, Event Concentrator, and Harmony OPC AE Server are modified not to use the generic E_INVALIDARG error code for the case when an already acknowledged alarm is being acknowledged again.
Calling up more than one Block Details window for FC110 (Rung) causes extremely slow performance of the entire machine, eventually locking up the machine completely. 800xAHAR-OL-5021-004	Adjusted IIS settings. Restricted the number of open thin client windows to three. Note that pinning an object will always allow extra windows to be created.

Table 240. Operational Issues (Continued)

Issue	Correction or Fix
Errors in the 800xA for Harmony OPC DA Server may cause the Connectivity Server to fail unpredictably. 800xAHAR-OL-5021-001	Improvements have been made to the 800xA for Harmony OPC DA Server in order to correct these issues and improve stability of the Connectivity Server.
Asset Optimization on System 800xA SV 5.0 SP2 Rev B did not report the correct status on recently upgraded NPM 22 modules. The Asset monitors for these devices are unloaded and reloaded with no difference. The Asset Monitor status shows the module to be inhibited, and in uncertain quality. 800xAHAR-OL-5020-018	The Control Network Asset Monitor is updated to resolve this issue. This asset monitor is packaged with the 800xA for Harmony deliverable.

Fixed in 800xA 5.1

Table 241, Table 242, Table 243, and Table 244 lists the Installation, Administration, Configuration, and Operation issues that have been corrected in 800xA for Harmony for 800xA 5.1.

Table 241. Installation Issues

Issue	Correction or Fix
An error message is generated for an Automated Installation on a Single Node System where the domain/user name or machine/user name is more than 31 characters in length. 800xAHAR-IN-5010-004	This problem has been corrected.
Creating Server objects via Objectlist results in an incorrect server path. 800xAHAR-IN-5010-005	If the domain paths for the Harmony server tags are not correct, they must be manually corrected within each server's tag configuration. For more information, refer to the *800xA for Harmony section of System 800xA Release Notes New Functions and Known Problems (2PAA106188*)*.
EbDataSyncService and EbServerBroker processes may not stop during Auto uninstall. 800xAHAR-IN-5010-003	Before starting the update of a 800xA for Harmony Server (System Version 5.0 SP1a to System Version 5.0 SP2), stop the 800xA for Harmony services. For more information, refer to the *800xA for Harmony section of System 800xA Release Notes New Functions and Known Problems (2PAA106188*)*.

Table 241. Installation Issues (Continued)

Issue	Correction or Fix
When 800xA for Harmony is selected in the Windows Add/Remove Programs, a Modify option is displayed. This option will not correct or update the 800xA for Harmony installation. 800xAHAR-IN-5020-011	The Modify option has been removed.
When upgrading from System Version 4.1, it is observed that the inherited and copied Aspects are inconsistently upgraded. 800xAHAR-IN-5000-016	Utilizing the System Version 5.0 SP2 800xA Consistency Checker Tool on the Harmony OPC Network objects will correct this issue. This tool can be launched from a Workplace within the system. This tool should be executed after the upgrade is complete. Note that the Consistency Checker Tool can take a long period of time to run depending on the quantity of data contained within the Aspect system. It is recommended that the tool be run on a subset of data (a node (PCU) within the control structure) to evaluate the time needed prior to selecting the entire OPC Network.

Table 242. Administration Issues

Issue	Correction or Fix
An Internet Explorer error will be generated when attempting to launch the Server Diagnostics application from the Windows Based Server Explorer utility. 800xAHAR-AD-5000-005	The method of launching Server Diagnostics has been changed to avoid altering the Internet Explorer settings.

Table 243. Configuration Issues

Issue	Correction or Fix
The first Harmony Configuration Server with Connectivity Server created in the system will create a single INFI 90 System Definition object. If additional Harmony Configuration Servers are added into the system, synchronization with the Aspect System will not properly identify the additional INFI 90 System Definition objects. These object references cannot be edited from the 800xA Aspect System. 800xAHAR-CN-5020-003	Aspect System synchronization now works properly on systems with multiple Configuration Servers.
New tags added to the system (using one of the Harmony Import Export tools) can go into alarm in the controller and generate event notifications before Harmony synchronization is run to create the corresponding 800xA tag object. When this happens, the alarms do not show up in the 800xA alarm and event list even after synchronization is run. 800xAHAR-CN-5020-005	For more information, refer to *Section 7* and *Section 11* of *800xA for Harmony Configuration (3BUA000157*).*
A script error may occur when the arrow controls are used to change address values (loop, node, module, and block) using the Tag Configuration Aspect, or when substituting values using the Operating Parameters Aspect. 800xAHAR-CN-5020-006	The script errors are corrected.

Table 243. Configuration Issues (Continued)

Issue	Correction or Fix
When synchronization has been started in the Harmony Synchronizer Aspect, the progress indicator will not update if you move to view another Aspect and come back to the Synchronizer Aspect. The synchronization operation will run to completion, but no progress will be indicated. 800xAHAR-CN-4100-019	For more information, refer to *Section 4* and *Section 12* of *800xA for Harmony Configuration (3BUA000157*)*.
When performing a Harmony Restore on a running system, it is possible to end up with duplicate server objects in the Harmony Configuration Server. 800xAHAR-CN-5000-007	For more information, refer to *Section 6* of *800xA for Harmony Configuration (3BSE046784*)*.
Operating Parameters does not display information for Module Status tags when running in Plant Loop mode. The pages have static information, but no fields are updated with tag information such as address, module type, etc. 800xAHAR-CN-5000-009	For more information, refer to *Section 3* of *800xA for Harmony Operation (3BUA000158*)*.
Harmony tag objects that were added with a Cut/Paste operation did not successfully connect to the Harmony Control system for data. 800xAHAR-CN-4100-021	Harmony tag objects should only be added to the Functional Structure with the Insert Object operation. Or, select the Functional Structure Objects option of the Harmony Synchronizer Aspect when synchronizing the Configuration database with the Aspect Directory.
There is an extra diagnostic message box displayed by the Harmony Synchronizer when attempts to Copy/Paste within the Control Structure are made. 800xAHAR-CN-4100-020	While the Copy/Paste operation is disabled, an extra diagnostics message is displayed. Click on the **OK** button to dismiss the message box.

Table 244. Operational Issues

Issue	Correction or Fix
Making large numbers of online changes (through the Harmony Importer or Bulk Configuration Manager) may cause 800xA for Harmony servers to become unavailable with an internal error. 800xAHAR-OL-5020-010	For more information, refer to *Section 9* of *800xA for Harmony Configuration (3BUA000157*)*.
The acknowledge alarm button on the PhaseX faceplate does not acknowledge return to normal alarms. 800xAHAR-OL-5020-001	This problem has been corrected.
The Harmony Block Details, Module Details, Operating Parameters, and the Infinet Diagnostics Aspects may not show data for a Harmony tag object whose name has been changed. 800xAHAR-OL-4100-011	For more information, refer to *Section 4* of *800xA for Harmony Configuration (3BUA000157*)*.
If a mirror node switch occurs while Block or Module Details windows are open, they stop updating dynamically. Important 800xAHAR-OL-5000-003	Windows will dynamically update.
800xA for Harmony tracking events show the wrong actor identity (user) for faceplate operations. 800xAHAR-OL-5000-004	The handling of faceplate-initiated actions has been modified.
Tag Summary may not work when launched from the Start menu. 800xAHAR-OL-5000-013	This problem has been corrected by removing **Tag Summaries** from the Harmony Connect Diagnostic menu, and adding **Tag Summaries** as a context menu item in the Web Based Server Explorer.

Table 244. Operational Issues (Continued)

Issue	Correction or Fix
800xA for Harmony system alarms will be processed as process alarms within System 800xA. 800xAHAR-OL-5010-006	For more information, refer to *Section 10* of *800xA for Harmony Configuration (3BUA000157*)*.
Multiple Configuration Servers that utilize the same area, unit, or equipment definitions in the same system will create multiple identically named objects in the Functional Structure (each containing the correct data from the referenced Configuration Server) when synchronization is run. The expected result is one object (area, unit, or equipment) containing all the data from all referenced Configuration Servers. 800xAHAR-OL-5020-009	Currently there is no automated solution for this problem. Users can use bulk configuration tools to manipulate the Functional Structure.
The NetConfig Aspect incorrectly displays the network configuration information, generates errors, or fails. 800xAHAR-OL-5020-014	The NetConfig Aspect now correctly retrieves network information.

Section 24 800xA for MOD 300

This section details the Fixed Problems for 800xA for MOD 300 that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

Table 247 and Table 248 lists the Configuration and Operation issues that have been corrected in 800xA for MOD 300 for 800xA 5.1 Revision E.

Table 245. Configuration Issues

Issue	Correction or Fix
MOD 300 OPC DA Server has a default ListSize registry setting value of 50. In recent testing it was determined that increasing this value to 250 would provide performance benefits in a few areas of the system. Product Bulletin: 3BUA002359 800xAMOD-CN-5101-008	ListSize has been updated to 250

Table 246. Operational Issues

Issue	Correction or Fix
Data Entry FCM MEASLREF cannot be written to from a graphic display. This field used to be writable in AdvaCommand (HP-UX) Operator Stations and MOD 300 Multi-bus Consoles. Product Bulletin: 3BUA002925 800xAMOD-OL-5103-002	The MEASLREF attribute of the Data Entry FCM is now writable from graphic displays in 800xA for MOD 300.
MOD 300 Diagnostic Message do not synchronize across multiple 800xA for MOD 300 Alarm and Event server pairs (For example: When the AE Servers are in their own unique AE Service Group). Product Bulletin: 3BUA002812 800xAMOD-OL-5011-011	A feature has been added to disable Diagnostic Messages for a given 800xA for MOD 300 Alarm and Event server.
PDL messages originating from the TCL, such as those generated by the STARTBATCH, ENDBATCH, and RECORD statements, are not stored in the PDL database when they contain fields with any of the following characters: **<. >, ', ", &**. 800xAMOD-OL-5023-006	Special characters are now available for PDL messages originating from TCL
When cleared, TCL Unit Alarm messages may not display in the TCL Message List even after returning to an alarm state. Product Bulletin: 3BUA002807 800xAMOD-OL-5102-002	TCL Unit Alarm messages will now display correctly when returning to an alarm state after being cleared.

Table 246. Operational Issues (Continued)

Issue	Correction or Fix
MOD 300 Display Servers can hang from a number of scenarios, resulting in blue status dots on MOD 300 displays. Product Bulletin 3BUA002386 800xAMOD-OL-5101-006	MOD 300 Display Servers have been updated to handle cases that could hang a display server.
When writing to a controller from a MOD 300 Faceplate, it can take a few seconds for the Faceplate to update and show the newly written value. **Note:** The value is written in the controller/field within 50 milliseconds. Product Bulletin: 3BUA002358 800xAMOD-OL-5101-005	Performance enhancements were made so the newly written value is updated more quickly on the Faceplate.
Large graphic displays with MOD D_Value elements can be slow to call up, especially with Alarm Properties. Product Bulletin: 3BUA002930 800xAMOD-OL-5103-003	The MOD D_Value graphic element has been modified to minimize late bound property references.

Fixed in 800xA 5.1 Revision B

Table 247 and Table 248 lists the Installation and Operation issues that have been corrected in 800xA for MOD 300 for 800xA 5.1 Revision B.

Table 247. Installation Issues

Issue	Correction or Fix
PAS Install always sets **Reverse_Time_Synch** to default value (disabled). 800xAMOD-IN-5023-003	For a workaround, refer *Section 11 800xA for MOD 300, Setting Up Time Synchronization in the Post Installation (3BUA000156R5021 Rev A) manual.*

Table 248. Operational Issues

Issue	Correction or Fix
omfSRCommand tool is not working. It appears to start but does not give any output. Users must press **CTRL+C** to get the command prompt back if they attempt to run the application. 800xAMOD-OL-5020-020	omfSRCommand now works properly.
The channel number display for momentary outputs for PLC I/O and Direct I/O for channel numbers in excess of channel 32. The channel number display for momentary outputs for Remote I/O functions correctly. 800xAMOD-OL-5101-001	The channel number display has been fixed. The functionality of the loop control was not affected.

Table 248. Operational Issues (Continued)

Issue	Correction or Fix
Subscribing to OPC items while a controller is not able to communicate or where the specified FCM does not exist consumes OMF resources possibly leading to a crash and restart of PAS. 800xAMOD-OL-5025-006 Product Bulletin 3BUA002251	After a timeout period, the MOD OPC DA Server frees OMF resources for tags and FCMs that cannot be resolved.
Any Numeric text that starts a comment line in a TCL program will appear in the Statement # field in the Sequence Debug display. This does not affect processing. 800xAMOD-OL-5025-005	A filter was implemented to prevent the numeric text in comments from being interpreted as Statement Numbers.
Generic tags configured as device loops using the MOD 300 Environment Generic Tag Configuration aspect do not display the device state or command on MOD 300 group and area displays. 800xAMOD-OL-5101-004	MOD 300 group and area displays now interpret and display the device state or command information when using the MOD 300 Environment Generic Tag Configuration aspect.

Table 248. Operational Issues (Continued)

Issue	Correction or Fix
Calling up a faceplate for a device loop would generate an event in PPA indicating that no OPC data source could be found. 800xAMOD-OL-5025-007	Regular operation of the faceplate was not affected. The device loop faceplates no longer generate this event on call-up.
MOD 300 Batch Phases are timed out waiting to initialize. This is causing the batch recipe to hang. The timeout occurs within 6 to 8 minutes and is intermittent in behavior. The issue has been observed in the hardware architectures that utilize multi-core processors. 800xAMOD-OL-5102-001 Product Bulletin: 3BUA002307	Stability enhancements have been made to the MOD Batch OPC DA Server to utilize multi-core architectures.

Fixed in 800xA 5.1 Revision A

Table 249 and Table 250 lists the Configuration and Operation issues that have been corrected in 800xA for MOD 300 for 800xA 5.1 Revision A.

Table 249. Configuration Issues

Issue	Correction or Fix
The channel numbers displayed on 800xA for MOD 300 Loop FCM and Loop Template are interpreted incorrectly. This displays the wrong channel numbers. 800xAMOD-CN-5011-010 Product Bulletin: 3BUA001877	The displays have been updated to interpret the configured channel value correctly.
The 800xA for MOD 300 Configuration manual is missing information on how to configure composite attributes. 800xAMOD-CN-5101-002	Refer to *800xA for MOD 300 Configuration (3BUR002417*), Section 6 - Configuration*, for details on how to configure the composite attributes *(MEASURE_COMP, SETPOINT_COMP and OUTPUT_COMP)*. The *800xA for MOD 300 Configuration (3BUR002417*)* is available with the System 800xA 5.1 Rev A distribution.

Table 250. Operational Issues

Issue	Correction or Fix
The Taylor Control Language (TCL) **REPORT** statement does not function with the Scheduling Service in System 800xA. This issue applies to all versions of 800xA for MOD 300. The **REPORT** statement is ignored by the system and will not cause any system failures. The MOD TCL PDL Alarm and Event list indicates the message as *Unknown*. There are no other indications from the system that there are any issues with the statement. 800xAMOD-OL-5025-002 Product Bulletin: 3BUA001803	The TCL interface to 800xA has been updated so that the **REPORT** command correctly passes the Batch ID and Unit ID to the Scheduling Service in System 800xA. TCL in combination with the configuration of the Scheduling Service can now initiate **REPORT** execution in 800xA. The 800xA for MOD 300 Configuration document is updated. The *800xA for MOD 300 Configuration (3BUR002417*)* is available with the System 800xA 5.1 Rev A distribution.
Device Descriptor Sets, when configured to have states not set in ascending order, display incorrect information on the Visual Basic Faceplates for Device Loops. This causes incorrect identification of the current state, and allows incorrect commands to be issued to the Device Loop. 800xAMOD-OL-5025-003 Product Bulletin: 3BUA001839	The Visual Basic Faceplate Element and Reduced Element aspects, for the MOD_CCF_DEV_LOOP object type, are updated to correctly interpret Device Descriptor Sets configured with state values independent of the order set in Control Builder.
SC Controller subsystem is losing ability to read or control any data. Resource overloads and communication overflow are occurring from the D/F Modules causing controller subsystem issues. 800xAMOD-OL-5023-001	Revised data access methods are used by diagnostic displays to reduce load on the SC controller D/F modules.

Table 250. Operational Issues (Continued)

Issue	Correction or Fix
The output slider bar on tag faceplate does not allow to be change the output through mouse or keyboard. You can change the output using the **Up arrow** and **Down arrow** on the output value display but not on the slider bar. 800xAMOD-OL-5010-026	The output slider bar issue is fixed. The limits for the bar are defined by Hi and Lo configured ranges.
On user faceplates, it is difficult to determine the commanded state **(DEV_CMND)** of the device loop. 800xAMOD-OL-5011-009	Faceplates for PG2 and VB graphics have been updated. The commanded state **(DEV_CMND)** is now outlined in yellow color. The device status **(DEV_STAT)** is indicated by orange color.
Advant Engineering Display MOD 300 Message Display will sometimes display (mostly on the first callup) meaningless or duplicated messages 800xAMOD-OL-5020-019	MOD 300 Engineering Display software 3.5 SP1 is updated to correct this issue.
When using the PU410 or PU412 external RTA units, the reverse time synchronization interface software does not correctly set the RTA unit to time master and the time may not be set on the RTA unit. ADSW-OL-146094-002	The dxTimeSync software for the PU410/412 RTA unit has been updated so that it can set the RTA unit time and master timekeeper function when reverse time sync is enabled.
Several parameters on the Output and Setpoint Bars for the Faceplate on PID Loop and Control Loop Object Types were incorrectly evaluating limited modes. The Faceplate Element aspect displays incorrectly for both Visual Basic and Process Graphics. 800xAMOD-OL-5023-004	The Faceplate Element bars for the Output and Setpoint now interpret the Upper and Lower Limits correctly for all use cases.

Table 250. Operational Issues (Continued)

Issue	Correction or Fix
The Device Loop Templet interprets the Device Descriptor Set to determine the correct information to display for the Initial Command, Special Command, Safe Command, Permitted Command, and Revert Command. These states are being displayed incorrectly. 800xAMOD-OL-5025-004	The Device Loop Templet handles the states within the configured Device Descriptor Set, regardless of how the Device Descriptor Set is configured in Control Builder.
Device loops that are Special Device types do not show all possible commands. The VB faceplate for a Special Device type only shows four of 16 possible outputs 800xAMOD-OL-5000-022	The VB faceplates function correctly for Special Device types. For more information, refer *Section 3 CCF Displays in 800xA for MOD 300 Operation (3BUR002418*)*.
The MOD 300 OPC DA Server may cause failures where the 800xA for MOD 300 connectivity server may crash, cause memory corruption within its own space, shut-down ungracefully, and potentially cause faceplates/graphics to stop updating. 800xAMOD-OL-5011TC8-001 Product Bulletin: 3BUA001212	The MOD 300 OPC DA Server has been corrected.
The information regarding MOD_DValue in the 800xA for MOD 300 Configuration Manual is not clear. 800xAMOD-MS-5100-003	The *800xA for MOD 300 Configuration Manual (3BUR002417*)* is updated to clarify MOD_DValue with the 800xA for MOD 300 5.1 Rev A release. The *800xA for MOD 300 Configuration (3BUR002417*)* is available with the System 800xA 5.1 Rev A distribution.

Table 250. Operational Issues (Continued)

Issue	Correction or Fix
The CPU Current reading shown on the MOD 300 System Performance Display does not always update properly when the node is running at greater than 90% CPU usage. ADVABUILD-OL-3400-001	The CPU calculation and update algorithm has been corrected.
The RTA failed with a bus error during TCL development with the Batch Editor. ADVACOM-OL-1910-001	Software is revised to include a null terminator which will prevent program overflow failures.
If OMF shared memory is exhausted, the node will fail in an uncontrolled manner. ADSW-OL-other-280	When PAS 5.1.5711.0120 is installed, the OMF shared memory is now set to the maximum, 32MB. This minimizes the potential for exhausting OMF shared memory. Changing this to 32MB was formerly a Post-Install step.
The Connectivity Server software performance may degrade under heavy system loads due to OMF errors. ADSW-OL-146094-001 800xAMOD-OL-5023-002	The software in DBMS list access and the OMF Translator is corrected to eliminate performance issues.

Fixed in 800xA 5.1

Table 251 and Table 252 lists the Configuration and Operation issues that have been corrected in 800xA for MOD 300 for 800xA 5.1.

Table 251. Configuration Issues

Issue	Correction or Fix
The documentation was not clear on how to setup Batch and Basic History in an 800xA System that has multiple connectivity servers. 800xAMOD-CN-5010-025	For more information, refer to *Section 6 Configuration* in *800xA for MOD 300 Configuration (3BUR002417*)*.
The MOD_DValue symbol does not work the same as in Unix. The formatting for the number of decimals always shows 2 decimal places, regardless of the size of the value. 800xAMOD-CN-5010-007	For more information regarding the formatting of the MOD_DValue, refer to *Appendix B Syntax for Database References* in *800xA for MOD 300 Configuration (3BUR002417*)*.

Table 252. Operational Issues

Issue	Correction or Fix
Changing a value on the MOD 300 SFC Display indicates the change and then the value turns black with the previous value shown instead of the newly written value. 800xAMOD-OL-5000-018	For more information, refer to *Section 4 TCL Displays* in *800xA for MOD 300 Operation (3BUR002418*)*.
Displays that use OPC do not work if an object name has a '+' or a '/' in it. Those displays include: LoopFCM Templates, Ladder Logic Faceplates, S800 Config Templates, Loop Faceplates, Group and Area displays. 800xAMOD-OL-5000-016	For more information, refer to *Section 3 MOD Importer* in *800xA for MOD 300 Configuration (3BUR002417*)*.

Table 252. Operational Issues (Continued)

Issue	Correction or Fix
Device loops that are Special Device types do not show all possible commands. The Process Graphics faceplate for a Special Device type only shows four of 16 possible outputs. 800xAMOD-OL-5000-022-PG	The Process Graphics faceplates function correctly for Special Device types. For more information, refer to *Section 3 CCF Displays* in *800xA for MOD 300 Operation (3BUR002418*).*
Alarm mismatch between the primary and redundant Connectivity Server nodes of a redundant pair(s) occurs after rebooting the pair. Both nodes try to synchronize with the controllers and alarms may transition while the redundant sever is starting, resulting in alarms having differing timestamps. 800xAMOD-OL-5020-014	The *800xA for MOD 300 Configuration (3BUR002417*)* and *800xA for MOD 300 Operation (3BUR002418*)* manuals were updated to identify the following: When rebooting a Connectivity Server node pair where MOD 300messages/events are routed, wait until the primary Connectivity Server node is fully booted and active (view AdvOPCAEServerTrace.log for a linesynchronizelist: done) before rebooting the standby Connectivity Server node to prevent an alarm mismatch.
(ABB20070801-0216) Messages coming from both nodes in a Connectivity Server pair cause a duplicate message to appear. 800xAMOD-OL-5020-015	For more information, refer to *Section 6 Configuration* in *800xA for MOD 300 Configuration (3BUR002417*).*

Table 252. Operational Issues (Continued)

Issue	Correction or Fix
The TCL Unit overview aspect is not added by default when a TCL Message aspect is added. 800xAMOD-OL-5000-023	For more information, refer to *Section 4 TCL Displays* in *800xA for MOD 300 Operation (3BUR002418*)*.
The TCL Unit overview will not show all units if there are multiple pairs of connectivity servers. This is not an issue for systems with one pair of connectivity servers. For example, the MOD_DB level for TCL Unit Overview does not show all the units available in the System; however, it does show all the units for a particular connectivity server. 800xAMOD-OL-5000-024	The TCL Unit overview will only show Units for a given OPC Service Group. If multiple pairs of connectivity servers exist, the TCL Unit overview will only show Units associated with one Service Group. An aspect must be put on the specific OPC Service Group to gets its units. For more information, refer to *Section 4 TCL Displays* in *800xA for MOD 300 Operation (3BUR002418*)*.

Section 25 800xA for TRIO

This section details the Fixed Problems for 800xA for TRIO that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision D

Table 253 lists the Administration issues that have been corrected in 800xA for TRIO for 800xA 5.1 Revision D.

Table 253. Administration Issues

Issue	Correction or Fix
Controller crash may occur during hot swap of CI862 communication module related to TRIO Controller crash may occur if the user does a hot removal or a hot insert of the CI862 module for TRIO. 800xACON-AD-5100-039	This problem has been corrected in CI862TRIOHwlib in TRIOConnect.

Fixed in 800xA 5.1

Table 254 lists the Configuration issues that have been corrected in 800xA for TRIO for 800xA 5.1.

Table 254. Configuration Issues

Issue	Correction or Fix
INVERT functionality after initial download for the TRIO blocks does not work. 800xATRI-OL-5010-004	This problem has been corrected.

Section 26 Snapshot Reports for 800xA

This section details the Fixed Problems for Snapshot Reports for 800xA that have been fixed in the system at the time of release.

Fixed in 800xA 5.1 Revision E

No fixed issues for this revision.

Fixed in 800xA 5.1 Revision A

Table 255 and Table 256 lists the Configuration and Operation issues that have been corrected in Snapshot Reports for 800xA 5.1 Revision A.

Table 255. Configuration Issues

Issue	Correction or Fix
The Snapshot documentation does not describe all possible naming pattern searches. 800xASR-CN-5100-001	For more information on search combinations, refer to *Snapshot Reports for 800xA, User Guide (3BSE060242-510 A)*.

Table 256. Operational Issues

Issue	Correction or Fix
The *AfwWorkplaceApplication.exe* memory increases and is not entirely released when using Aspect name and Aspect category name patterns in the search criteria. 800xASR-OL-5100-004	For more information, refer to *Snapshot Reports for 800xA, User Guide (3BSE060242-510 A)*.
Exporting data to Microsoft Excel aborts the operation with an error message displayed, when more than 24 columns are present in the search grid. 800xASR-OL-5100-005	This problem has been corrected.

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