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1 About These Release Notes

1.1 General

Any security measures described in these Release Notes, for example, for user access, password security, network security, firewalls, virus protection, etc., represent possible steps that a user of an Field Information Manager 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 Field Information Manager.

These Release Notes describe the new functionalities and the known problems in Field Information Manager 2.2.1.

1.2 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.

1.3 Warning, Caution, Information, and Tip Icons

These Release Notes include Warning, Caution, and Information where appropriate to point out safety related or other important information. They also include 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*.
1 About These Release Notes
1.3 Warning, Caution, Information, and Tip Icons

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.
Release Notes

2.1 Introduction

This document represents the Release Notes for Field Information Manager 2.2.1. This document describes the functionality changes and new functionalities introduced for this product in this release. It also enumerates known problems encountered in the final testing of this product release and identifies workarounds that help overcome the problem. The document contains additional notes that may be valuable to the customers and service personnel working with the product.

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

2.2 Products Participating in this Version

The released version of Field Information Manager 2.2.1 contains the following product:

- Field Information Manager 2.2.1 (Build 2.2.9672.1)
  - FIM Bridge PROFINET (Build 2.2.9527.0)
  - FIM Bridge OPC-UA (Build 2.2.9537.0)
  - HART-IP FDI Communication Server (Version 1.0.12)

2.3 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.

This software is designed to operate within the specifications of the Field Information Manager. Do not install this software on systems that exceed these limits.
Follow your company's safety procedures.

These Release Notes are written only for qualified persons and are not intended to be a substitute for adequate training and experience in the safety procedures for installation and operation of this software. Personnel working with this software must also exhibit common sense and good judgement 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 Field Information Manager. 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 Field Information Manager and its software and prolong its useful life.

All information contained in Release Notes is based on the latest product information available at the time of printing. The right is reserved to make changes at any time without notice.

2.4 Related Documentation

The documents to be used in conjunction with these Release Notes document are:

- Field Information Manager Online Help
- 2PAA117322V22_en_User_Guide_Field Information Manager.pdf
- 2PAA117322V22_de_Benutzerhandbuch_Field Information Manager.pdf
- 2PAA116567V22_FIM_Product_Guide.pdf
- 3BSE078159 ABB Ability™ System 800xA 6.0.3 - System Guide Summary
- 3BSE091794 ABB Ability™ System 800xA 6.1 - System Guide Summary
- Field Information Manager website www.abb.com/fieldinfo containing instructions, videos and frequently asked questions (FAQs).

2.5 Product Support

Contact ABB technical support or your local ABB representative for assistance in reporting the problem.
3 System Requirements

Operating System Requirements

- Windows 8.1, Windows 10, 64 Bit.
- Connectivity and Bridge services are installed on Windows Client OS or alternatively on Windows Server OS.
  
  Please find more information about the supported Windows Server OS versions in System Guide Summaries listed in Related Documentation.

- 10 GB storage space, minimum of 1 Gigabyte RAM.

Field Information Manager 2.2.1 does not support installation on Windows 7 anymore.

Installation of Field Information Manager 2.2.1 includes several updates of internal software components. Due to this, the user will be asked during installation to restart the computer if updating from a previous installation.
4 Functionality Changes

4.1 Increased Number of Device Tags

The maximum number of Device Tags in FIM Device Management Edition has been increased from 2500 to 5000.

4.2 Separation of FIM and FIM Bridge 800xA

Components relevant for ABB Ability™ System 800xA are separated from Field Information Manager installation and released within the FIM Bridge 800xA with ABB Ability™ System 800xA.

The connectivity to ABB Ability™ System 800xA in Field Information Manager 2.2 can only be established using the FIM Bridge 800xA and ABB Ability™ System 800xA 6.1.1.

FIM Bridge 800xA is the successor of previous FIM800xAConnect. It will be released after ABB Ability™ System 800xA 6.1.1, independently from Field Information Manager 2.2. It will provide all required files for connectivity to I/O system components.

In case of a new installation of Field Information Manager, the FIM Bridge 800xA has to be installed in order to establish connectivity to ABB Ability™ System 800xA.

In case of an upgrade from a previous installation of Field Information Manager, the installation checks existing FIM projects for compatibility. If using incompatible components from ABB Ability™ System 800xA, these projects cannot be used until the FIM Bridge 800xA is released and installed.

Please refer to FIM website for updates regarding FIM Bridge 800xA and connectivity to ABB Ability™ System 800xA.
4.3 ABB FIM Bridge PROFINET

ABB FIM Bridge PROFINET is the successor of previous FIMProfinetConnect.

For connectivity to I/O system components, the required Device Packages are mandatory which will be released within the FIM Bridge 800xA.

4.4 ABB FIM Bridge OPC-UA

Field Information Manager supports connections to OPC-UA devices by using the FIM Bridge OPC-UA.

4.5 Thorsis isNet HART FDI Communication Server

Field Information Manager supports connections to HART field devices by using the Thorsis isNet HART FDI Communication Server.

4.6 Thorsis HART-IP FDI Communication Server

Field Information Manager supports connections to HART-IP servers by using the generic Thorsis isNet HART-IP FDI Communication Server. The HART-IP servers then allow connections to (wireless) HART field devices.

4.7 User Management

Field Information Manager supports User Management, which allows the configuration of access rights for specific users in order to only allow certain actions.

The following user roles exist: Basic Access, Read-Only Access, Write Access and Full Access. The execution of Apps in Field Information Manager is handled via App Access.

4.8 Updated "New Project" Dialog

The "New Project" has been updated to list available Communication Server types, which shall be added to the new project directly.

The simple configuration supports the user in adding the requested Communication Servers.
4.9 Updated "Add Communication Server" Dialog

The "Add Communication Server" dialog has been updated to list available Communication Server types.

The simple configuration supports the user in adding the requested Communication Server.

4.10 Flat Topology Scan

Field Information Manager provides a flat topology scan, which only scans the selected topology level and not subsequent ones. This allows the user to deploy Field Information Manager for selected parts of the topology.

The flat topology scan is an alternative option next to the scan on all levels, which scans the selected topology level and all subsequent ones.

4.11 Display or hide non-HART Gateways

Field Information Manager provides a switch in Topology View and Configurations View to display or hide non-HART Gateways.

4.12 Device Integration by GSDML

Field Information Manager supports the integration of devices by GSDML instead of using an FDI package, which allows basic communication and diagnosis.

4.13 Offline Repository

Field Information Manager supports the user in creating and including an Offline Repository, which represents an offline collection of FDI Device Packages, EDDs and definition files for communication hardware.

All Online and Offline Repositories can be configured and managed in Repository Settings.

4.14 Common Names

Field Information Manager supports Common Names to assign external generic names to internal Device Package items with specific names. After successful assignment, the respective Device Package items can also be accessed via their Common Names for further use.
4.15 **Extended Import of Device Engineering Data**

The option "CSV Import" in Tools Menu - PROJECTS has been renamed to "Import of Engineering Data".

It now supports the new Extended Format, which can be used for comparison with online device parameters and preconfiguration of Loop Check settings.

4.16 **Loop Check**

Field Information Manager supports Loop Check of channels and connected field devices in conjunction with FIM Bridge 800xA and ABB Ability™ System 800xA 6.1.1.

Loop Check of selected channels is configured and started within the Loop Check View, which also provides an overview about the current Loop Check Status of listed channels. Alternatively, the configuration can be derived from the extended Import of Device Engineering Data.

Depending on the characteristics of the respective channel, the Loop Check is performed completely automatically or with required user interaction, e.g. authorization, semi-automatic execution or manual documentation.

Loop Check in Field Information Manager supports 5-/9-Point Test, Check of Underrange and Overrange and Check of Alarm Limits.

After execution, details about the Loop Check can be displayed for each channel.

The results of the performed Loop Check can be exported to CSV and PDF file format for further use.

The Audit Trail diagram of the Dashboard includes each executed Loop Check for a channel with a connected field device.

4.17 **Field Information Manager Apps**

Field Information Manager provides an interface to include FIM Apps like xStream Commissioning, which are released independently.
5 Fixed Problems

5.1 Introduction

This section details the problems of Field Information Manager 2.1.2, that have been fixed in Field Information Manager 2.2.1.

5.2 Issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Workaround, Clarifications, and Helpful Hints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Changed value of parameter &quot;Damping&quot; is sent to device, but displayed value in Online Device Settings of LLT100 field device is not updated.</td>
<td>When using the LLT100 FDI device package, the parameter &quot;primary_variable_code&quot; (displayed with the name &quot;Process Value&quot;) only allows the values 0 (&quot;Level&quot;) and 2 (&quot;Ullage&quot;). Please use only these valid values, as invalid values for this parameter can lead to the reported issue. Therefore, the problem is located in Device Package and not in Field Information Manager. In case of further problems, please contact the package vendor.</td>
</tr>
</tbody>
</table>
6 Known Problems

6.1 Introduction

This section details the known problems for the Field Information Manager 2.2.1, that exist in the system at the time of release. It also enumerates known problems encountered in the final testing of this product release and identifies workarounds that help overcome the problem.

6.2 Issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Workaround, Clarifications, and Helpful Hints</th>
</tr>
</thead>
<tbody>
<tr>
<td>No known issues.</td>
<td>-</td>
</tr>
</tbody>
</table>