We are pleased to announce the release of IED Connectivity Package version 3.2.3 for the Relion® 670 series, our flagship protection & control IEDs.

With this release, we bring several new features and enhancements with focus on digital substation applications.

The Relion® 670 series covers a complete set of applications from generator protection, transformer protection and control to busbar protection, line protection, phasor monitoring and bay control. With the introduction of version 2.2 of the 670 series, we further expand the application areas especially for digital substations, enhancing the system functionality and flexibility.

Key system features such as support for a large number of Ethernet communication ports, HSR redundancy method, and precision time synchronization following the IEC/IEEE 61850-9-3 profile are introduced in this release. Process bus sampled values via IEC/UCA 61850-9-2LE are now supported in all products of the Relion® 670 series family.

New features and benefits
This new version of the IED Connectivity Package for Relion® 670 series enables the interaction between the Relion® 670 series version 2.2 IEDs and the Protection and control IED manager PCM600 version 2.8 or later.

The new IED connectivity package enables handling of enhanced flexible product naming, extended Ethernet and protocol configuration, easy GOOSE engineering and reading of through fault reports from the Relion® 670 series version 2.2.

The new connectivity package enables support for the following new features in PCM600 version 2.8 and Relion® 670 series version 2.2:
- Support for projects with IEDs that have flexible product naming enabled and IEDs with regular IEC 61850 data model.
- Easy configuration of the, up to six, Ethernet ports.
- Easy and simple protocol configuration for enhanced defense in depth protection.
- GOOSE engineering made efficient with the easy GOOSE engineering feature.
- Simple configuration of merging units for IEC/UCA 61850-9-2LE.
- An easy way to configure routes for the TCP/IP protocols of the IED.
• Through fault monitoring tool (support for read of through fault reports)

For detailed information on what is new in the Relion® 670 series version 2.2 IEDs, please refer to the release note 1MRG031928.

Supported products
The IED Connectivity Package version 3.2.3 for Relion® 670 series is compatible with, and supports, the following products:
• 670 series IEDs version 2.2
• 670 series IEDs version 2.1
• 670 series IEDs version 2.0
• 670 series IEDs version 1.2
• 670 series IEDs version 1.1
• 670 series IEDs version 1.0
• Protection and Control IED Manager PCM600 version 2.8 or later

Installation of this IED Connectivity Package
To install the IED connectivity package for Relion® 670 series, please follow the instruction below:
1. Ensure that PCM600 version 2.8 with PCM600 2.8 Hotfix Rollup 20180626 or later has been installed
2. Install the IED Connectivity Package version 3.2.3 for Relion® 670 series
3. Install required IED modules

The connectivity package and IED modules can be installed from the USB memory delivered with the Relion® 670 series IED or from the PCM600 version 2.8 update manager. Please note that this IED connectivity package must be installed to be able to interact with the Relion® 670 series IEDs via PCM600.

Support for PCM600 version 2.8
The connectivity package for Relion® 670 series IEDs contains object types and methods for the PCM600 tool. Modules for REB670, REC670, RED670, REG670, REL670, RER670, RES670 and RET670 provide support for the following functionalities:
• Application configuration
• Parameter setting with graphical support
• Signal matrix
• Graphical display editor
• Signal monitoring
• Disturbance handling
• Event viewer (internal, process and security events)
• Communication management
• Ethernet configuration (protocol, IEC/UCA 61850-9-2LE and route configuration)
• User management
• IED configuration migration
• IED summary
• Flexible product naming
• Easy GOOSE engineering
• Injection Commissioning (REG670 only)
• Through fault monitoring (through fault reports)
IED configuration migration
This revision of the IED Connectivity Package for Relion® 670 series products features IED configuration migration tool support for migrating projects containing Relion® 670 series version 1.0, 1.1, 1.2, 2.0, 2.1 to version 2.2.

Known issues and limitations
There are known issues and limitations related to the new IED connectivity package and the data migration. For more information, please refer to the “Relion® 670 series IED Connectivity Package version 3.2.3 Read me”, 1MRG031795.

IED Connect - a unique concept
The IED Connect provides you an IED specific connectivity package that contains a complete description of the protection and control IEDs you have ordered. This description consists, for instance, of data signals, parameters, addresses and IED documentation.

The signal data is configured based on the information provided by the connectivity package, which allows you to efficiently establish connection between the IED and the IED tools (e.g. Protection and control IED manager PCM600). Additionally the IED Connect simplifies the system engineering and minimizes the risk of errors in integration of the IEDs in ABB’s system products and tools (e.g. MicroSCADA Pro, SDM600 and COM600 Station Automation series).

Documentation & marketing material
The product guides, technical manuals, technical summary sheets and brochures are available via abb.com/protection-control.

Ordering and delivery
The IED Connect USB memory containing the IED Connectivity Package version 3.2.3 for Relion® 670 series is always included in the Relion® 670 series product delivery. The USB memory contains the complete technical documentation of the Relion® 670 series version 1.1, 1.2, 2.0, 2.1 and 2.2.

The new version of the IED connectivity package can also be downloaded via the PCM600 update manager, together with the required IED modules for the above mentioned product releases.

Kind regards,
Krister Hagman
Global Product Manager
ABB, Grid Automation Products

ABB AB
SE-721 59 Västerås, Sweden
Tel. +46 21 32 50 00
Fax +46 21 14 69 18

abb.com/protection-control

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AB. Copyright© 2018 ABB All rights reserved