We are pleased to announce the release of IED Connectivity Package version 1.0 for the Relion® SAM600-IO.

The SAM600 product family addresses the growing market of digital substations with IEC 61850 compatible merging units interfacing conventional current and voltage instrument transformers. With the introduction of Relion® SAM600-IO version 2.2, we further enhance the product family, specifically for interfacing primary apparatus, such as circuit breakers, disconnectors, earth switches and transformer tap changers to the IEC 61850 process bus directly from the switchyard.

Key system features, such as support for a large number of Ethernet communication ports, HSR and PRP redundancy methods, and precision time synchronization following the IEC/IEEE 61850-9-3 profile are available with this release.

New features and benefits
This version of the IED Connectivity Package for Relion® SAM600-IO enables the interaction between the Relion® SAM600-IO version 2.2 and the Protection and Control IED manager PCM600 version 2.8 or later.

The IED Connectivity Package enables handling of cyber security related information such as IED user management, reading of security events, IEC 61850 Ed 2 support, centralized account management, certificate management, forcing of binary inputs and outputs, read of serial number and firmware version, configuration mode support, enhanced flexible product naming, extended Ethernet and protocol configuration, and easy GOOSE engineering from the Relion® SAM600-IO version 2.2.

The connectivity package enables support for the following new features in PCM600 version 2.8 and Relion® SAM600-IO version 2.2:
- Online/offline IED configuration comparison
- Composite function blocks
- Cyber security (secure communication to IEDs, security logs and user account management)
1. Installation of this IED Connectivity Package
   To install the IED connectivity package for Relion® SAM600-IO, please follow the instruction below:
   1. Ensure that PCM600 version 2.8 with PCM600 2.8 Hotfix Rollup 20180111 or later has been installed
   2. Install the IED Connectivity Package version 1.0 for Relion® SAM600-IO
   3. Install required IED module

   The connectivity package and IED modules can be installed from the USB memory delivered with the Relion® SAM600-IO 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® SAM600-IO via PCM600.

2. Support for PCM600 version 2.8
   The Connectivity Package for Relion® SAM600-IO contains object types and methods for the PCM600 tool. A module for SAM600-IO provide support for the following functionalities:
   - Application configuration
   - Parameter setting
   - Signal matrix
   - Signal monitoring
   - Disturbance handling
   - Event viewer (internal, process and security events)
   - Ethernet configuration
   - User management
   - IED summary
   - Flexible product naming
   - Easy GOOSE engineering

3. Supported products
   The IED Connectivity Package version 1.0 for Relion® SAM600-IO is compatible with, and supports, the following products:
   - Relion® SAM600-IO version 2.2
   - Protection and Control IED Manager PCM600 version 2.8 or later

- Windows 8 and 10, with native 32-bit and 64-bit support
- Account management tool (support for centralized account management and certificate management)
- Support for PCM600 64-bit
- Batch read/write of configurations
- IED summary display provides summary of most important IED properties
- Complete read of IEC 61850 data from IED (including GOOSE)
- Synchronization of SNTP server addresses between SCL and PCM600
- 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
- An easy way to configure routes for the TCP/IP protocols of the IED

For detailed information on what is new in the Relion® SAM600-IO version 2.2, please refer to the release note 1MRG029654.
Known issues and limitations
There are known issues and limitations related to the new IED connectivity package. For more information, please refer to the read me document, 1MRG029656.

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 1.0 for Relion® SAM600-IO is always included in the Relion® SAM600-IO product delivery. The USB memory contains the complete technical documentation of the Relion® SAM600-IO version 2.2

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

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