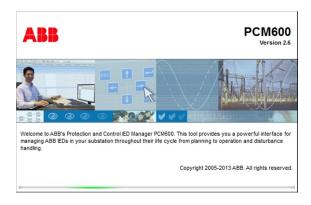# Protect and Control IED Manager PCM600 Ver. 2.6 Release note

Dear Reader,

A new version (2.6) of Protection and Control IED Manager PCM600 has been released. PCM600 provides versatile functionalities for the entire life cycle of all Relion® Protection and Control IED applications.

New features and benefits / feature enhancements

- Improved update manager simplifies the installation procedure of PCM600 updates, IED Connectivity Packages and language add-on's

- Composite functions in application configuration tool to realize user defined composite function blocks, containing logic and protection function blocks

- Improved cyber security (secure communication to IEDs, security logs and user account management)

- IEC 61850 Ed2 support

- IED online status indication in the plant structure

- Signal forcing of output signals in the signal monitoring tool

- Improvements in the application configuration tool

  - Copying of function blocks including its parameter settings

  - Improved routing of connections between the FB, variables, HW channels

  - Enhanced zooming functions with fit to the page, width or height

  - Improved insert existing variable dialogue

  - Improved automatic connection of variables to the function block signals

- Improvements in the parameter setting tool

  - Rule-based visualization of the parameter settings (hides the unnecessary parameters based on value of a other parameter)

  - Copying and pasting of complete protection setting groups

  - Improved handling of changed parameters (the status remains "changed" in the parameter setting tool until the parameter is written to the IED)

  - Parameter import and export buttons are now available in the menu toolbar

- Improved performance of the SCD import (for SCD files with GOOSE)

- Improved performance when saving in the IEC 61850 configuration tool

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- Customer filter now persists after tool restart in the signal monitoring tool and in the event viewer tool
- Possibility to include disturbance recorder files when exporting the project configuration (PCMP) and the IED configuration (PCMI) files
- Scheduler for disturbance upload now supports a mail server with authentication
- Windows 8 support

Documentation

Following documentation is available and can be found on the [PCM600 website](#) and on the [ABB Substation Automation Software Library](#):

- PCM600 Installation guide
- PCM600 Readme file
- PCM600 Product guide
- PCM600 Getting started guide

The PCM600 user documentation is available as on-line help in PCM600.

Technical requirements on environment

Hardware and software requirements:

- The supported operating systems and hardware requirements are described in the PCM600 installation guide.
- Using PCM600 requires that the applicable IED Connectivity Package has been installed. The connectivity packages can be downloaded from the update manager of PCM600. Furthermore the IED Connectivity Packages for 670 and 650 series are also available on a separate IED Connectivity Package DVD that is delivered together with the IEDs, whereas the IED Connectivity Packages for 630, 620, 615, 611, 610, RIO600, RBX615, PML630, REX521, RE_54_, SPACOM and REF542plus can also be downloaded from the www.abb.com/substationautomation portal.

Products supported in this release

PCM600 supports the following protection and control products:

- Relion® family: 670, 650, 630, 620, 615, 611, 610 series
- RIO600, RBX615, PML630

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- PWC600 and GMS600
- REX521 and RE_54_ series
- Selected SPACOM relays
- REF542plus

Features and benefits in recently released versions of PCM600

PCM600 Ver. 2.5 (released in February 2013):

- Online/Offline IED configuration comparison
- Graphical representation of distance protection function
- Support for multiple PCM600 versions on the same computer
- Simplified variant concept, without license and free of charge
  - Complete IED tool functionality included in one variant
  - The IEC 61850 engineering module, included in previous PCM600 Ver. 2.4 EP
- Comparison of SCL configuration in PCM600 and SCD file for identification of difference in SCL data
- Customization of IED tool menus, customize visibility of tools according to user needs
- Improved short report tool for easy analysis of disturbance files
- Various improvements in application configuration
- Increased system size (# IEDs in same project) when engineering large systems
- Template support in Graphical Display Editor tool for reuse of display engineering
- Improved navigation between function block in application configuration and its parameters
  - Parameter setting tool shows corresponding parameters of a selected function block in application configuration tool
- Optimized overview in signal matrix tool
- Export subset of parameter settings to csv or XRIO
- Improved user interface and usability of ICM tool (IED configuration migration)
- IEC 61850 configuration tool of PCM600 for viewing or engineering of dataset and dataflow configuration for vertical or horizontal IEC 61850 communication

IED Connectivity Package support for PCM600 Ver. 2.6

For the best performance we recommend the latest versions/revisions of the IED Connectivity Packages available in the PCM600 update manager to be used together with the PCM600 Ver. 2.6.

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Life cycle statement

The PCM600 Ver. 2.6 will replace all previous versions of PCM600.

The replaced versions will be moved to obsolete phase in the software life cycle policy, which means that they will no longer be maintained.

Ordering and delivery information

PCM600 Ver. 2.6 is license free and can be downloaded free of charge from the ABB Substation Automation Software Library.

PCM600 can also be ordered on a CD using the following ordering number:

Software	Ordering number
PCM600 Ver. 2.6	PCM600-26

Installation

The installation of PCM600 Ver. 2.6 is started by running the installation program (Setup.exe).

Note:

- PCM600 Ver. 2.6 can be installed in parallel to an already installed PCM600 Ver. 2.5 and another previous PCM600 Ver. 2.x

Known limitations and supporting information

For technical limitations and supporting information, please refer to the PCM600 readme file.

Some PCM600 functionality might not yet be available in all the available ABB IEDs. For further information please refer to the release notes of the IEDs respectively IED Connectivity Packages.

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Main functionality

The Protection and Control IED Manager PCM600 tool provides versatile functionalities for the entire life cycle of all Relion® Protection and Control IED applications. This easy-to-handle tool helps you to manage your protection and control equipment all the way from application and communication configuration to disturbance handling, including automatic disturbance reporting.

Designed to communicate, PCM600 interacts with IEDs over the fast and reliable TCP/IP via corporate LAN or WAN, or alternatively directly through the communication port at the front of the IED. PCM600 tool is able to read and write all configuration and setting data of an IED with a single command.

The user interface, workflow and the IEC 61850-based data model in PCM600 are designed according to the same philosophy as the Relion® Protection and Control IEDs, ensuring smooth and seamless integration between the tool and the IEDs.

PCM600 also secures the projects and data created with earlier versions of the PCM600 tool, which enables full backwards compatibility.

Yours faithfully,

Beat Schütz
Global Product Manager
Substation Automation Products

Henry Niveri
Product Manager
Distribution Automation