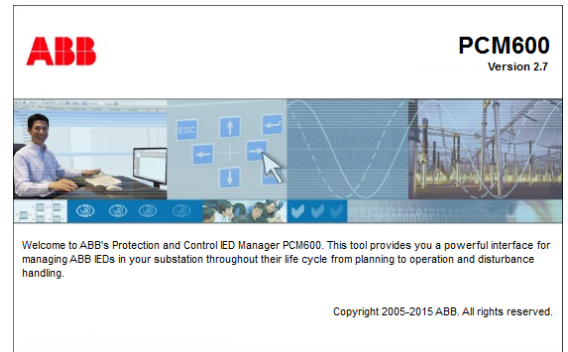


Protect and Control IED Manager PCM600 2.7

Release note

Dear Reader,

Version 2.7 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

- Saving time when writing configuration of multiple IEDs with new batch process for IED read and write operations
- Parameter setting tool does now also support import of parameters in CSV (comma separated value) file format
- Improved tool performance for large projects thanks to native 64-bit operating system support
- PCM600 Update Manager new with offline mode and software export/import functionality
- Configuration migration to the latest versions of 615/620 and RIO IEDs
- Various usability enhancements in ACT
 - Multiple main applications configurations can now be stored to same main application (MainApp) template file
 - “Replace Function Block” does now automatically reconnect all the available connections of function blocks
 - When working with split windows, draw connections between function blocks of the separate windows
 - Improved readability of application configurations with new possibility to draw straight connection lines between hardware channels and function block signals by putting names of channel and user defined name to side of the HW channels icons
 - Predefined filters for validation messages in output window for separation of information
 - Find and replace of text strings allows easy renaming of user defined text on signal connections or function blocks
 - The online monitoring does now display also signal values of not connected function block output signals
 - Printing to letter format (ANSI)

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- IED Summary display provides summary of most important IED properties like IP address, technical key, IED type and version etc. for all IEDs in a project
- IED Compare does now support comparison of several communication protocols
 - IEC 61850 (DS, RCB, GCB, SVCB)
 - Modbus, IEC 103, DNP 3.0 (depending on IED capabilities)
- Graphical Display Editor tool got completely redesigned and provides enhancements like
 - Align functions to easily align objects
 - Connect signals shows only recommended matching types of input signals
- Complete read of IEC 61850 data from IED (including GOOSE)
- Backup functions (manual or scheduled)
 - The backup function allows to manually or by schedule take a backup of one or multiple projects and store to local drive
 - Optionally also the IED configurations of the connected IEDs can get read during scheduled backup process
- Archiving format PCMA
 - Additional to existing PCMP format, the new file format PCMA is intended for long term storage and independent on SQL server version
- Windows 10 support, 32 or 64 bit

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Release note

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 2.7 supports the following protection and control products:

- Relion® family: 670, 650, 630, 620, 615, 611, 610, 601, REB500, RIO600, RBX615, PML630, PWC600, GMS600
- REF542plus
- REX521 and RE_54_ series
- Selected SPACOM relays

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Release note

Features and benefits in recently released versions of PCM600

PCM600 2.6 (released in January 2014):

- 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
- Improvements in the parameter setting tool
- Improved performance of the SCD import (for SCD files with GOOSE)
- Improved performance when saving in the IEC 61850 configuration tool
- 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

PCM600 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 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

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- 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 2.7

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 2.7.

Life cycle statement

The PCM600 2.7 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 2.7 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 2.7	PCM600-27

Installation

The installation of PCM600 2.7 is started by running the installation program (Setup.exe).

Notes:

- PCM600 2.7 can be installed in parallel to already installed PCM600 versions like 2.6, 2.5 or earlier.

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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.

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 Schuetz
Global Product Manager
Substation Automation Products

Henry Niveri
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