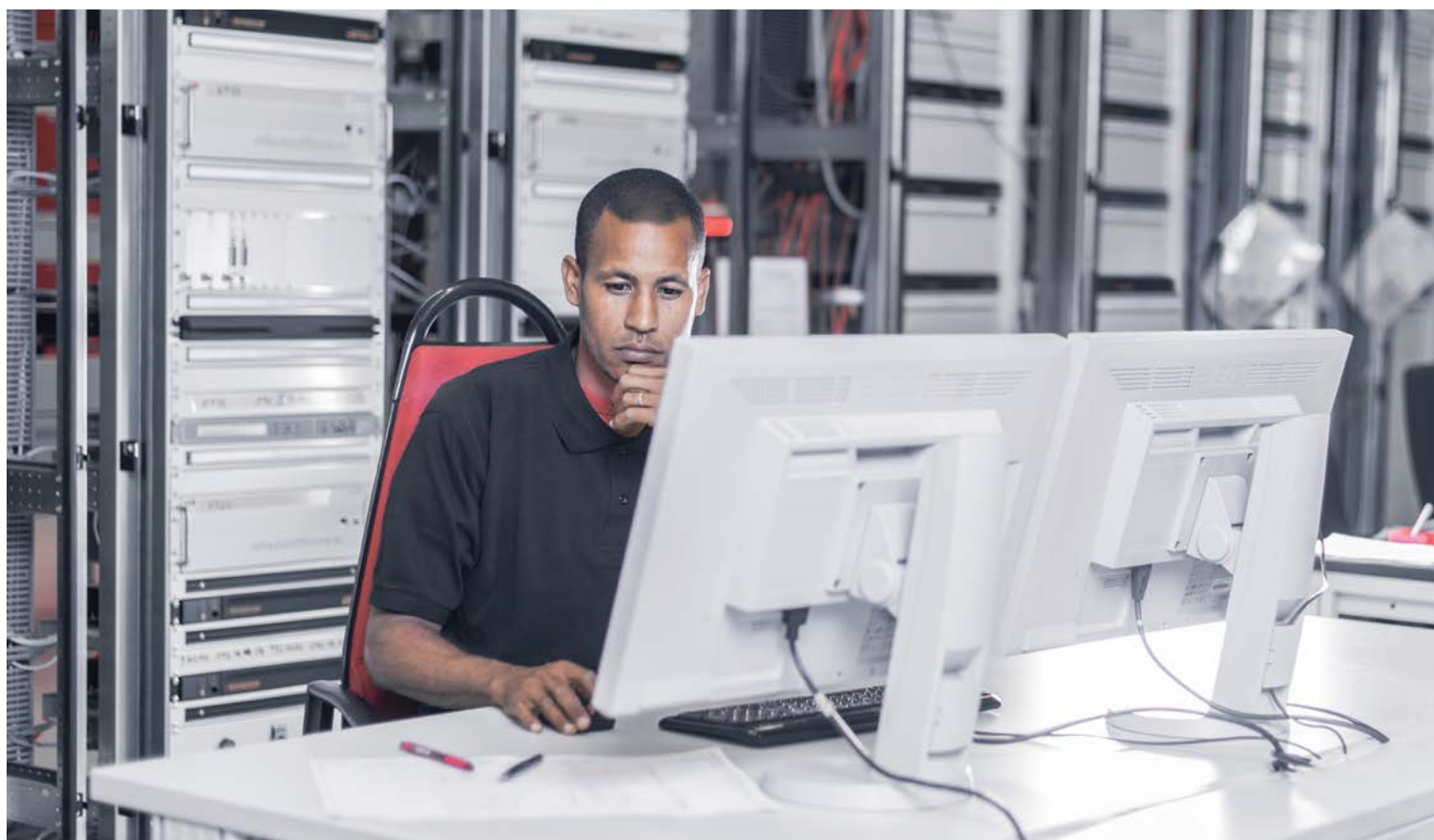# Managing Relion® IEDs
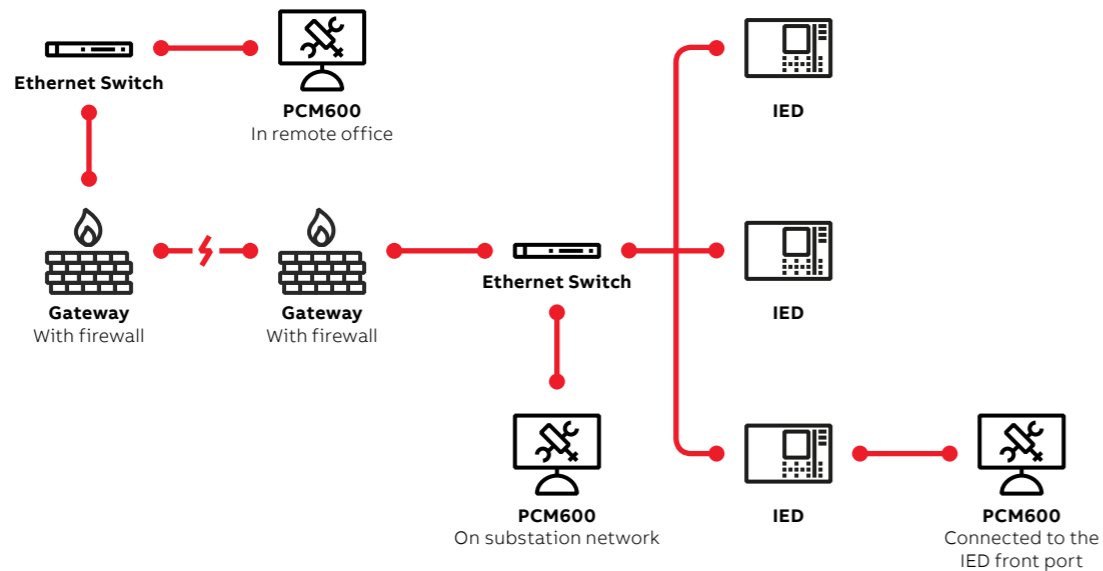## Protection and control IED manager PCM600

⊕

- **Provides efficient functionality for application configuration and communication engineering**
- **Compliant with IEC 61850**
- **Graphical support for protection parameter settings**
- **Monitors measurements and signal statuses**
- **Reading and analysis of disturbance recordings**

Efficient management
Protection and control IEDs

Ethernet Switch

PCM600
In remote office

IED

Gateway
With firewall

Gateway
With firewall

Ethernet Switch

IED

PCM600
On substation network

IED

PCM600
Connected to the
IED front port

—
01 An overview of
PCM600's efficient
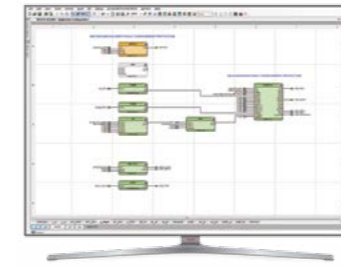management of
ABB's protection
and control IEDs.

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

PCM600 interacts with IEDs over the fast and reliable TCP/IP protocol via a corporate LAN or WAN, or alternatively directly through the communication port at the front of the IED. It 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 the 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.
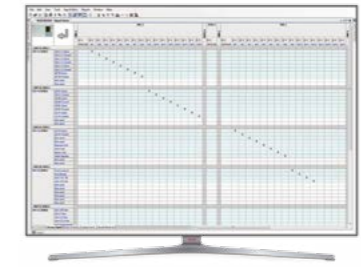
Top 10 features of the protection and control IED manager PCM600:
• Powerful application configuration for creation and monitoring of application configuration
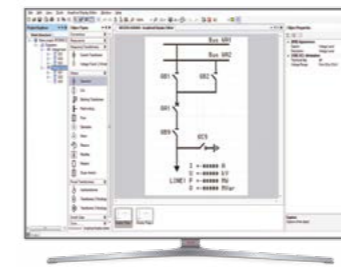
• Graphical representation of parameters simplifies setting of protection function parameters
• Configuration of IED hardware and IED display
• Communication management
• Signal matrix for efficient and flexible connection of CTs, VTs and binary input and output signals, as well as connection of the GOOSE (Generic Object Oriented System-Wide Events) signals between IEDs
• Comparison of configuration between IEDs and PCM600, and as well as SCL (substation configuration description language) files at SCD (substation configuration description) import
• Monitoring of IED signals and events
• Integrated disturbance recording functionalities for scanning and analysis of disturbance information
• Copy/paste and export/import functions to allow efficient reuse of existing IEDs, bays or substations
• Utilizes ABB's unique Connectivity Package concept which contains a comprehensive description of the IED, consisting of data signals and parameters as well as the IED documentation
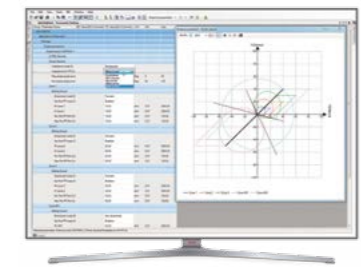

Application configuration allows you to easily create, change or view an IED configuration. The colors of the function blocks relate to the function status in the configuration: unconnected (gray), partially connected (yellow) or fully connected (green).

With the signal matrix, you can connect the process termination with any I/O connection point in the configuration in the same way as the traditional trip matrix.

With the graphical display editor, you can easily engineer the single line diagram according to the switchgear arrangement for the IED HMI.

The parameter setting tool allows you to change or view all the parameters that an IED has, for all the setting groups. When reading the parameters from the IED, you can easily compare the values in the PC with the ones in the IED. The graphical representation of protection characteristics supports you in visualizing, for example, distance protection parameter setting.

Tool suite for engineering, integration and testing.

ABB's comprehensive suite of tools for engineering, integration and testing supports you throughout the complete lifecycle of protection and control IEDs and IEC 61850-based substation automation

systems. With many advanced features, the tools allow you to manage your installation efficiently in all situations from engineering and commissioning to operation and maintenance.
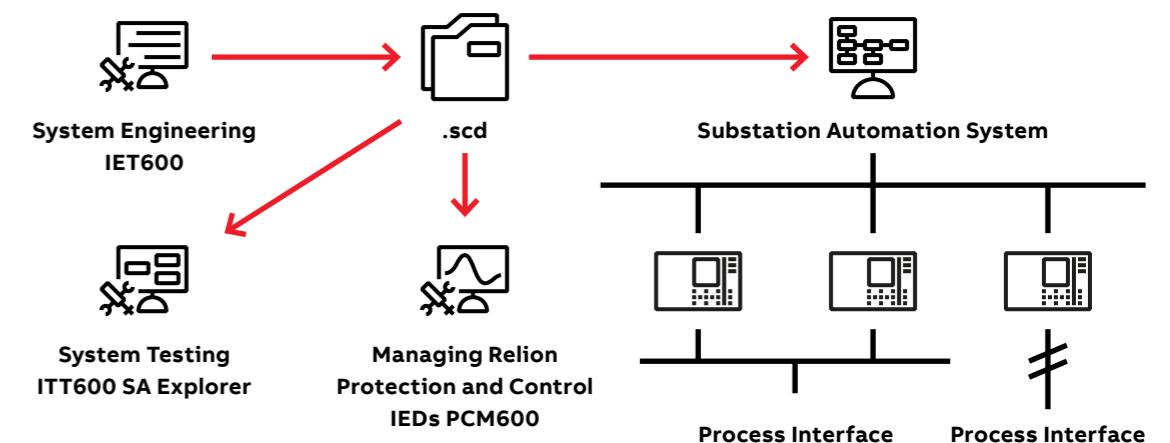

**System Engineering
IET600**

.scd

Substation Automation System

**System Testing
ITT600 SA Explorer**

**Managing Relion
Protection and Control
IEDs PCM600**

Process Interface

Process Interface

ABB

—

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