

OPC Servers

Software solutions



Open access...

...to real time-information...

The OPC Server is a powerful, easy-to-use server software package providing access to **real-time process information in Protection and Control devices** throughout any Substation Automation System, SCADA system, Process Automation system (Distribution Control System), or other system with OPC Client support. This software solution supports you in decision making by offering you the right information at the right time, in the right place.

... through seamless integration...

Based on open standards, the OPC Server enables open integration of process information from all ABB protection and control devices. The OPC Server enhances the information flow between of faults in integrated applications by allowing the protection and control devices to interact with the computer of the client's application. This results in a swift validation of connectivity and data quality, faster commissioning and correspondingly lower integration costs. **The solution enables power plant operators to monitor and control the entire generation and distribution process via one single control system – the power plant control system.**

... with a proven industry standard

The ABB OPC Servers comply with the OLE for Process Control (OPC) standard. Designed with a proven industry standard interface for OPC Clients, the OPC Server facilitates the implementation of control, monitoring and reporting applications in a standard format. The OPC server includes reading, writing or subscribing to protection and control functionalities. Control commands and protection parameter settings can be sent straight to the units. In the same way, new data will automatically be received from these units.

ABB is able to serve utilities and industry in their stringent demand to improve power production, transmission, distribution, and quality with integrated control technology. To optimize assets and reduce costs decision makers must have the right information at the right time. ABB meets the need of utilities and industry to freely select the desired protection and control products, distributed control systems and SCADA systems, yet making different products and solutions work together.



Seamless integration

The OPC technology opens a new perspective on product sustainability in substation automation. This technology enables you to connect your relay and terminal solutions based on the LON or SPA protocols with upper level systems directly without the need for separate gateways. As a result, you can better combine your existing secondary equipment and new technology installations during substation retrofits.



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OPC

Technology summary:

Summary of functions and features

- Open to all process automation systems (DCS), SCADA systems or systems with OPC Client support
- Complies with the OPC international standard
- Supports Microsoft® Windows® COM and DCOM
- Supports the whole range of ABB's protection and control devices
- Enables monitoring and control of protection devices
- Monitors the data measured and recorded by the protection and control devices
- Provides interfaces for reading and setting of protection and control devices parameters
- Time synchronizing support
- Easy engineering based on standard technology
- Easy to upgrade
- High performance
- Solid foundation for future investment in ABB's Industrial IT solutions

Protocols

- LON
- SPA

OPC Compliance

- OPC Data Access Automation Specification, v. 1.0 and v. 2.0
- OPC Alarms and Events Specification, v. 1.0

System Specifications

LON:

- Protection and control product LON Compliance according to LON Application Guidelines 1.4.

SPA:

- Supports SPA protocol 2.5 or earlier

PC System Requirements

- Microsoft® Windows NT® Workstation, release 4.0, Microsoft® Windows® 2000 or Windows XP
- Pentium® II 266 MHz (or equivalent)
- 100 MB RAM
- 20 MB HDD space available
- SVGA Display
- CD-ROM
- Ethernet Adapter

LON:

- PCLTA-20 Card
- RER 107

SPA:

- RS232