

Connect NI LabVIEW 8.5 to Any PLC Using NI OPC Servers

What Are NI OPC Servers?

OLE for Process Control (OPC) is the industry standard for transferring data between programmable logic controllers (PLCs) and control applications without any proprietary restrictions. OPC is a client/server technology that uses the server to communicate data among automation devices, sensors, HMI stations and SCADA systems. New National Instruments OPC Servers provide a single consistent interface to communicate with multiple devices, saving you from learning new communication protocols or spending time understanding new applications.



Using NI OPC Servers in combination with National Instruments LabVIEW and NI programmable automation controllers (PACs), you can integrate high-speed measurements, advanced analysis and custom control into new and existing industrial machines. You also can use NI LabVIEW and the LabVIEW Datalogging and Supervisory Control (DSC) Module to develop sophisticated HMI/SCADA systems to monitor real-time data and log historical information to databases and enterprise resource planning (ERP) systems.

Advantage of Adding LabVIEW to PLCs

The combination of NI OPC Servers and LabVIEW provides a single platform for delivering high performance measurements and control to both new and existing industrial systems. With LabVIEW, you can:

- Connect to any PLC using NI OPC Servers without proprietary drivers and protocols
- Integrate both legacy systems and the latest industrial devices using OPC or other built-in protocols in LabVIEW such as TCP/IP, UDP and serial
- Optimize your existing infrastructure by adding high-speed analog I/O, advanced control, custom motion control and machine vision using NI PACs
- Take advantage of the unlimited tags to develop a full-fledged flexible HMI/SCADA system using LabVIEW DSC

For more information on NI OPC Servers, visit www.ni.com/opc.

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