LabVIEW Datalogging and Supervisory Control Module

Overview
The LabVIEW Datalogging and Supervisory Control (DSC) Module is the best way to interactively develop your distributed monitoring and control systems. With the DSC Module, you can extend your LabVIEW application to view real-time and historical data, configure and manage alarms and events, set up security on your applications, easily network OPC devices and LabVIEW Real-Time targets together into one complete system, and efficiently log data to the distributed historical database. The DSC Module also features intuitive wizards and dialog boxes to help you develop applications faster and better.

Whether you need to build a full-scale industrial automation and control system, configure a high-channel-count data logging application, or just monitor and log a few dozen I/O points for historical collection, the LabVIEW DSC Module provides the tools to make you more productive.

Distributed Data Logging
The LabVIEW DSC Module makes it easy to develop distributed monitoring and data logging applications. It provides built-in utilities for data logging and alarm management, as well as real-time and historical trending. Whether you are collecting data from National Instruments data acquisition products, LabVIEW Real-Time targets, Compact FieldPoint modules, or programmable logic controllers (PLCs), you can quickly configure the I/O you want to collect and then let the DSC Module automatically acquire the data.

The historical data is stored in a SQL 92 and ODBC 2.5 compliant database, so you can use standard data extraction tools to retrieve the information for use in other parts of your business enterprise. With the intuitive wizards available in the LabVIEW DSC Module, you can develop a data logging application with no programming. Data can be logged onto any machine on your network. This distributed data logging capability gives you unprecedented flexibility to log data from many applications to a single computer or to any number of computers on a network.

Alarms and Events
The LabVIEW DSC Module automatically monitors and logs alarms and events for your system. You can configure alarm conditions for individual tags or use graphical programming to develop more sophisticated alarming schemes. You can easily change alarm levels programmatically with VIs. Straightforward wizards help you build standard alarm indicators and summary displays. In addition, you can print out alarms or have LabVIEW send e-mail to a designated operator when an alarm condition changes.

Real-Time and Historical Trending
With the trending functionality in the LabVIEW DSC Module, you can view both historical and real-time data from your process. Using trends, you can view the entire history of an I/O point, rather than a brief instance in time.

Networking LabVIEW Real-Time Targets and OPC Devices
The LabVIEW DSC Module makes building distributed applications easy and intuitive. Simply browse the network for the I/O you want to access around your lab, your production floor, or the world. Using LabVIEW built-in security, you determine which machines have access to the data and whether machines have read-only access or read-and-write access.

NI LabVIEW Datalogging and Supervisory Control Module
- Graphical development for distributed monitoring and control systems
- Networked, SQL compliant database for distributed data logging
- Configuration-based alarms and events
- Real-time and historical trending
- Built-in networking for data sharing and integrating third-party devices
- User-level security for applications
- Event-driven architecture with OPC client/server connectivity
- More than 4,000 additional user interface graphics

Operating Systems
- Windows 2000/NT/XP

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The LabVIEW DSC Module adds full OPC client and server capabilities to your LabVIEW application as well, so that you can communicate with any OPC server available on the market today. These servers manage device I/O and communication status information. National Instruments offers Industrial Automation OPC Servers that communicate with various programmable logic controllers (PLCs) and I/O devices (see page 133).

Security

With the LabVIEW DSC Module, security is built into the LabVIEW environment and implemented across the network seamlessly. You can turn any existing or new LabVIEW application into a secure system by defining system-level and operator interface security without programming. You can limit group and user access to different utilities, to front panels, and even to individual graphical objects. You can set up any number of operator accounts and set security based on IP addresses.

System Requirements

The required system is a Pentium PC, 200 MHz or faster (500 MHz recommended), running Windows 2000/NT/XP/Me/98 (Windows NT, version 4.0 is required with service pack 6a and the 6a Security Rollup Package) with a minimum of 128 MB RAM (256 MB recommended). The standard installation, including full online reference, takes 800 MB of disk space.

Ordering Information

NI LabVIEW Datalogging and Supervisory Control Module
Development System ................................................778311-03
Run-Time System....................................................778312-03
Run-Time System with Industrial Automation OPC Servers ..........778315-03
NI Developer Suite
Professional Control Edition ..................................777906-03
Standard Control Edition ........................................777905-03
For more information on NI Developer Suite, see page 39.

Industrial Automation OPC Servers
CD..............................................................................777616-01
Run-Time License ....................................................777616-02
For more information on the Industrial Automation OPC Servers, see page 133.

Training

LabVIEW Datalogging and Supervisory Control Course ............................................................page 765

Additional Options

NI Developer Suite, Renewal, Professional Control Edition ..................930906-01
NI Developer Suite, Renewal, Standard Control Edition ......................930905-01
NI Industrial Automation OPC Servers
Software Subscription Program ........................................930329-01

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