

INTELLILINK® SETUP SOFTWARE



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Introduction

Being able to remotely access your automation products is vital when wanting to better understand your systems. In doing so, you can improve your customers' experiences and your long-term system efficiency.

IntelliLink Setup Software is S&C's Windows®-based program for *directly* interfacing with S&C automation products. With the software, you can *remotely* access all your S&C automation products that communicate using the DNP 3.0 protocol from any personal computer connected to the DNP network. You'll be able to configure controls, access historical and real-time data, and troubleshoot equipment.

Your existing S&C automation products can be upgraded to work with IntelliLink Setup Software. Contact your local S&C Sales Office for more information.



Features and Benefits

- ◆ Provides quick and easy access to S&C automation products communicating via the DNP 3.0 protocol
- ◆ Enables users to manage setpoints, view real-time data, gather troubleshooting information, send remote commands, and download historical reports for multiple devices from a single location
- ◆ Saves time and money by eliminating the need for a service crew to travel to each control
- ◆ Works with any computer running Windows 7 or later
- ◆ Easy-to-use intuitive user interface
- ◆ Optional access restriction to authorized users, with flexible password features

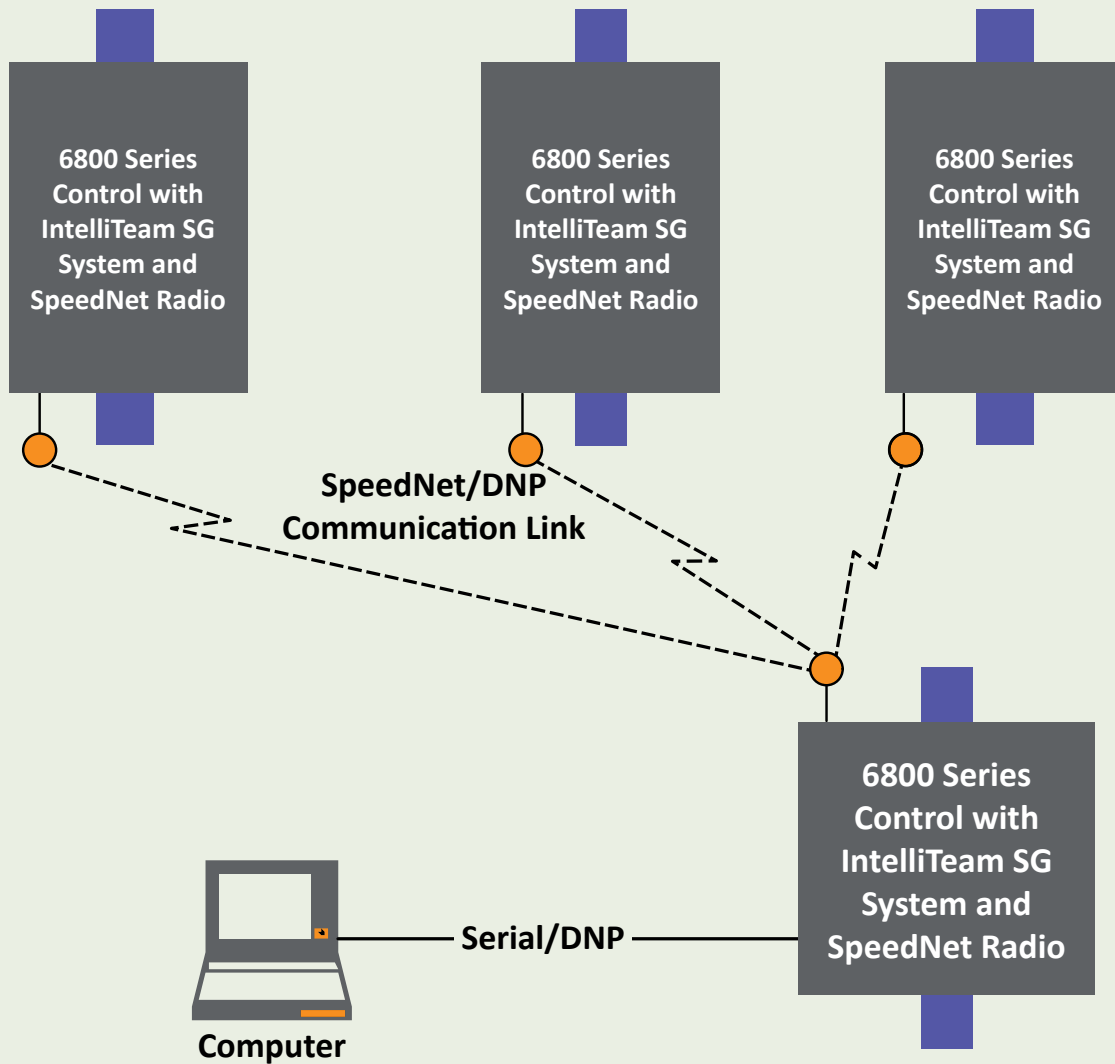
Remotely Access Your S&C Automation Products

IntelliLink Setup Software communicates with a variety of S&C automation products operating under DNP 3.0 protocol, including:

- ◆ S&C 5800 and 6800 Series Automatic Switch Controls, with or without the IntelliTeam® II or IntelliTeam® SG Automatic Restoration System
- ◆ 6801M Automatic Switch Operators
- ◆ M Series® Switch Operators
- ◆ BankGuard Plus® Controls
- ◆ IntelliNode™ Interface Modules and Universal Interface Modules
- ◆ IntelliCap® Plus Automatic Capacitor Controls
- ◆ IntelliCap® 2000 Automatic Capacitor Controls

Remotely Access Your S&C Automation Products (continued)

FIGURE 1. Connection to the SCADA communication port of a 6800 Series Automatic Switch Control with IntelliTeam SG software. For more information about this, see the Appendix on **page 8**.



Applying IntelliLink Setup Software

IntelliLink Setup Software can be applied in a variety of ways. **Figure 1 on page 3** shows how a computer can be connected to the SCADA communication port of a 6800 Series Automatic Switch Control furnished with an IntelliTeam II or IntelliTeam SG Automatic Restoration System. The serial link can be cable or fiber-optic or a point-to-point radio.

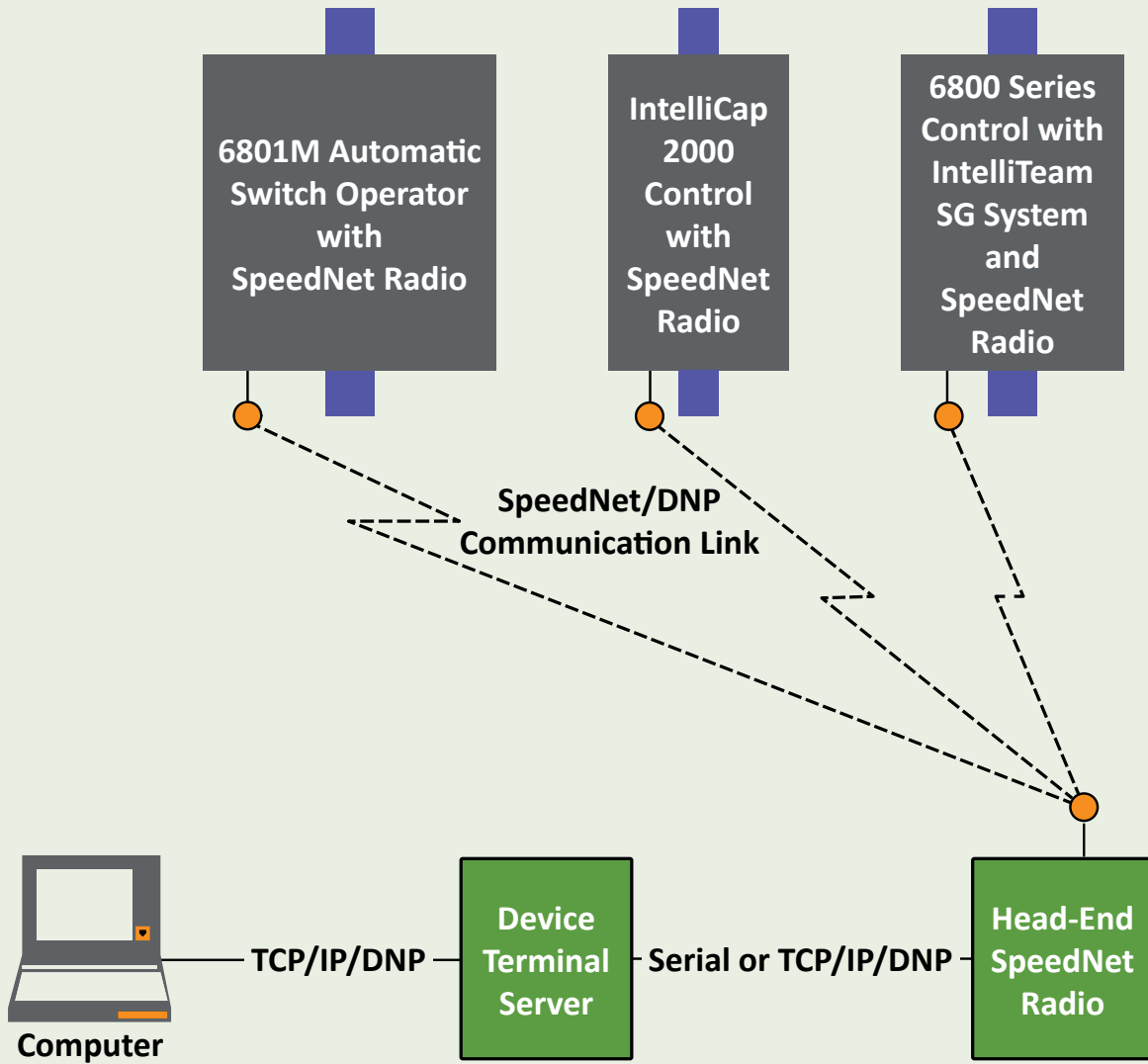
The 6800 Series Automatic Switch Control acts as a DNP router, sending messages through its second SCADA port to a SpeedNet™ Radio, which, in turn, communicates with other team members. In this manner, you can configure and troubleshoot your entire network through connection to a single control.

Figure 2 on page 5 shows how a computer can be connected via Ethernet TCP/IP or UDP/IP to a device terminal server with a head-end radio. You can configure and troubleshoot your entire network through a connection to the server.

In instances where a DNP master station is also accessing information from S&C automation products, the communication link must be capable of simultaneously delivering multiple DNP messages. Please contact S&C for applications involving more complex communication systems.

Applying IntelliLink Setup Software (continued)

FIGURE 2. Connection to device terminal server. For more information about this, see the Appendix **page 8**.



IntelliLink Setup Software and Other Communication Options

S&C offers two options for communicating with S&C automation products: the IntelliLink Setup Software and the IntelliTeam® FMS Feeder Management System. Either option has an easy-to-use intuitive interface with a consistent look and feel, similar screens, layouts, and procedures.

Table 1 on page 7 lists the key features the two systems support, along with the features of a typical SCADA system operating under the DNP 3.0 protocol.

S&C supplies IntelliLink Setup Software at no charge with all of its automation products. The software allows you to connect your PC with a serial cable or a Wi-Fi link to each of your controls, one at a time. Communication is established using a proprietary S&C protocol that works directly with the control's operating system.

IntelliLink Setup Software adds remote-configuration and data-retrieval capabilities over a network using the DNP 3.0 protocol, and it includes password protection. It communicates by calling up the DNP address of each device, one address at a time.

The IntelliTeam FMS system monitors data from multiple S&C controls and provides immediate operation alerts and comprehensive data-summary reports. Communication health and computer performance are also monitored.

IntelliLink Setup Software and Other Communication Options (continued)

TABLE 1. Features of IntelliLink Setup Software, IntelliTeam FMS system, and a typical DNP SCADA system

Function	IntelliLink Setup Software	IntelliTeam FMS Feeder Management System	Typical DNP SCADA System
View Data and Troubleshoot System	Applicable	Applicable	Not Applicable
Remote Configuration	Applicable	Applicable	Not Applicable
Password Protection	Applicable	Applicable	Not Applicable
Multiple Device Access	Non-simultaneous	Applicable	Applicable
Download Data Report	Applicable	Applicable	Not Applicable
Change Control Software	Applicable	Not Applicable	Not Applicable
Tagging	Not Applicable	Not Applicable	Applicable
Audible Alarms	Not Applicable	Not Applicable	Applicable
Remote Control Using DNP Commands	Applicable	Not Applicable	Applicable
Unsolicited Reporting	Not Applicable	Applicable	Applicable
Download Data, Event, and Alarm Logs	Full	Full	Limited
Single-Line and System Overview	Not Applicable	Not Applicable	Applicable
Data, Event, and Alarm Logging	Not Applicable	Full	Limited
Scheduled Data Gathering	Limited	Full	Limited
Set Point Logging	Not Applicable	Applicable	Not Applicable
User-Defined Screens	Not Applicable	Applicable	Not Applicable
Communication Screening	DNP Over Serial Connection, TCP/IP or UDP/IP	DNP Over Serial Connection, TCP/IP or UDP/IP	DNP Over Serial Connection, TCP/IP or UDP/IP

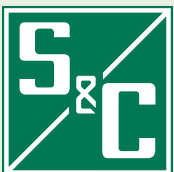
Appendix

ADDITIONAL INFORMATION FOR FIGURE 1:

The diagram shows four 6800 Series Control devices with IntelliTeam SG system and SpeedNet Radio as part of a SCADA system. One of the 6800 Series Control devices is connected to a computer via Serial/DNP and is able to communicate with the other three devices via SpeedNet/DNP Communication Link, represented by dotted lines connecting the Communication Link of three 6800 Series Control devices to the one that is connected to a computer.

ADDITIONAL INFORMATION FOR FIGURE FIGURE 2:

The diagram shows 6801M Automatic Switch Operator, IntelliCap 2000 Control, and 6800 Series Control with IntelliTeam SG System and SpeedNet Radio as part of a SCADA system. All 3 devices are connected to another SpeedNet Radio and can communicate with the three devices via SpeedNet/DNP Communication Link, represented by dotted lines connecting the Communication Link of three 6800 Series Control devices to the SpeedNet Radio which is connected to a Device Terminal Server via Serial or TCP/IP/DNP. This allows the connection back to the computer via TCP/IP/DNP to allow for remote communication of the devices.



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