

## Features and Highlights

- Complete control and monitoring of BAS system from colorful and graphical displays
- Compatibility with TOPS BACnet driver for Internet and local area network (LAN) capabilities with BACnet/IP
- Comprehensive alarm handling with alarm retransmission and logging
- Scheduled recording of logged data from IQ controllers
- Recording of schematic pages
- Management of multiple controller occupation times
- Print templates
- Display of HTML pages from a corporate intranet or the Internet
- Display of live, logged, or recorded data in multitrace graphs using either compact or precision logs
- Simple engineering path using drag and drop operation
- Self-learning of all local networks
- Simple connection to remote sites over TCP/IP or autodialed links



963 Supervisor Software is a graphical, real-time user interface for the building control system. From a graphical display, users can monitor equipment or building services and change the way the building is controlled.

All pages and actions are accessible using a mouse. The security system ensures that users are only presented with information and functions that are relevant to their authority or task.

Because 963 learns the structure of the system, its Device View can provide system information without the need for engineering.

963 Server is compatible with the Trend Open Protocol Server (TOPS), which allows values from BACnet devices to be included in schematic pages, and also enables users to make adjustments to—and receive alarms from—those devices.

963 Server also acts as a Web server allowing access to the graphical displays from a Web browser such as Internet Explorer.

## Technical Data

The specifications below apply to 963, and refer to a standard PC with mouse, keyboard, hard drive, DVD drive, monitor, and sound capabilities (optional). 963 is a real-time application; installed PCs must have enough free resources to run 963 under peak load conditions. System performance cannot be guaranteed if other third-party software is installed

### 963 Server

- **Processor** 2 GHz.
- **RAM** 1G RAM.
- **Hard Drive** 40 GB hard disk.
- **Free Disk Space** 1 GB free for installation, plus space for site data.
- **Graphics Card** 128 MB, 1280x1024 resolution.
- **Network Card** Ethernet Network Card (required for 963 Server, communication with BACnet devices, 963 SNMP, or if 963 is to access the IT network e.g. is to connect to the IQ network using Ethernet).
- **COM Ports** 2 (for LNC2/CNC, and GSM Modem)<sup>1</sup>.
- **PCI Slots** 2 standard size (for Ethernet card and LNC2).
- **Parallel or USB Ports** 1 for alarm printer<sup>2</sup>.
- **Operating System** Windows XP SP2 (Professional or home)<sup>3</sup> with Internet Explorer version 6 SP1 or greater.
- **Network Protocol** BACnet/IP, TCP, UDP, SMTP, HTTP.

### 963 Clients

**PCs** 963 Clients may be any configuration providing they are running TCP/IP networking protocol, and have an Ethernet card and Web browser. For full graphics capabilities (graphic mode) Internet Explorer v6.0 or greater, or Firefox 2 (recommended Internet Explorer version 6 or greater) and the SUN JAVA runtime environment v1.5 or greater is required. The browser must have JAVA script enabled. Other browsers provide a text only display (text mode).

**PDA's** PDAs running Windows Mobile 2003 Second Edition or greater (text mode only).

**Smartphones** Nokia 9210i, and smartphones running Window Mobile 5 or greater (text mode only).

Note that the 963 has not been tested with all devices and Trend cannot guarantee a particular device's compatibility with 963 Server.

Popup blocking software must be disabled or configured to allow popups from the 963 Server.

This data sheet refers to 963 v3.0, and TOPS v1.0 software.

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<sup>1</sup> A built in COM port is required for the GSM modem supplied with 963 SMS.

<sup>2</sup> The use of a dot matrix printer is recommended for alarms (extended character set not supported). A separate printer for graphs and schematic pages (graphics printer) is recommended. Both the alarm printer, and graphics printer can be connected using a parallel/USB port, or over the office IT network (providing a network card is fitted). This should be taken into account when specifying the required ports for the personal computer.

<sup>3</sup> 963 will also operate on Windows Vista Business<sup>4</sup>, Windows 2004 Service Pack 4, with Internet Explorer version 6 SP1, or Windows Server 2003 SP1 with Internet Explorer version 6 SP1.

<sup>4</sup> 963 will only operate on 32 bit operating systems. If installing 963 on a PC that has a full installation of SQL server earlier than SQL Server 2005 it is necessary to separately upgrade to SQL Server 2005, this installation is not included as part of the 963 installation.

## Ordering Information

Product number	Description
CSWR7-111000000K	963L/CD/USA - 963 Lite Supervisor Software (CD only)
CSWR7-112000000K	963L/LNC2/USA/UL - 963 Lite Supervisor Software (CD & LNC2, wall box & cable)
CSWR7-411000000	963L/SEC/CD - 963 Secure Lite Supervisor Software (CD Only)
CSWR7-412000000	963L/SEC/LNC2 - 963 Secure Lite Supervisor Software (CD, LNC2, wall box & cable)
CSWR7-131000003K	963S/CD/3USER/USA - 963 Server Supervisor Software plus 3 client licences (CD only)
CSWR7-132000003K	963S/LNC2/3USER/USA/UL - 963 Server Supervisor Software plus 3 client licences (CD & LNC2, wall box & cable)
CSWR7-431000003	963S/SEC/CD/3USER - 963 Secure Server Supervisor Software plus 3 Client Licences (CD Only)
CSWR7-232000003	963S/SMS/LNC2/3USER - 963 SMS Server Supervisor Software plus 3 client licences (including modem, aerial, LNC2, wall box & cables)
CSWR7-731000003	963S/SNMP/CD/3USER - 963 SNMP Server Supervisor Software plus 3 client licences (CD only)
CSWR7-732000003	963S/SNMP/LNC2/3USER - 963 SNMP Server Supervisor Software plus 3 client licences (CD & LNC2, wall box & cable)

## Trend Control Systems