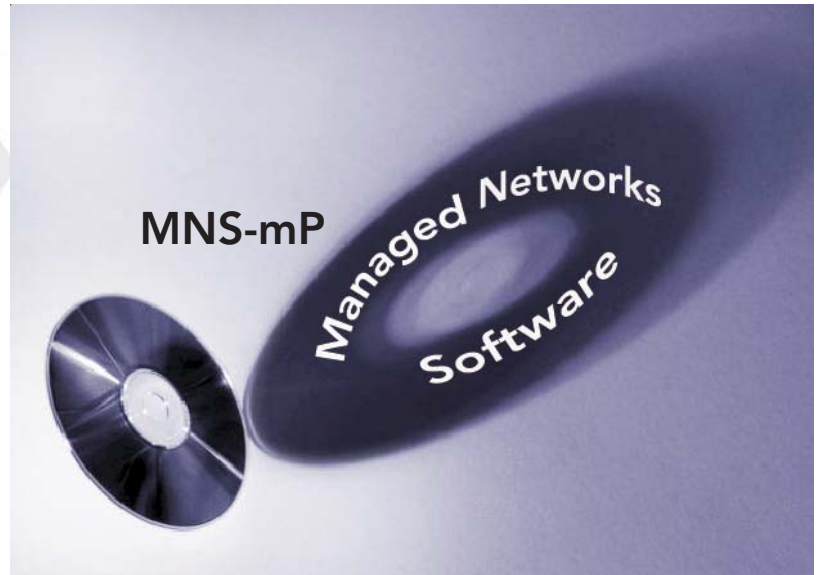


### Features

- Basic Management
- Menu-driven
- SNMP
- QoS, VLANs
- STP, LLL
- OEM Customization



Magnum™ Managed Networks Software (MNS), combined with the Magnum mP62 Outdoor Switch, provides power and efficiency in a managed Ethernet platform. Designed for use in small edge-access switches, MNS-mP provides basic management services in a simple and easy-to-use menu-driven structure.

Ethernet and managed switches continue to take on new and demanding industrial applications. Frequently distributed over long distances and interconnected with fiber media, hardened mP62 Switches with MNS-mP work in traffic control systems, as part of surveillance and security systems, in telecommunications facilities, airports, tunnels, mines, and even airborne and shipboard.

The Magnum mP62 switch can be configured to include a user-selected mix of 10/100 Mb copper and 10 Mb and 100 Mb fiber Ethernet segments. With MNS-mP, network managers are able to shape their traffic and control their network operations for efficiency and performance.

The MNS-mP (release 1.6.2) supports the following functions:

- **SNMP** implements industry standards
- **GUI** with Hubview/Bitview support
- **Menu-driven** commands for ease of use
- **Link-Loss-Learn™** for fast fault recovery
- **Spanning Tree Protocol**, 802.1d
- **VLAN**, Port-based
- **Password Security**, 2 levels
- **QoS**, 802.1p
- **Broadcast** storm control
- **Telnet** client for remote access
- **Port Settings Control**, copper and fiber ports
- **TFTP** for software upgrade
- **BootP/DHCP** for auto-configuration
- **Updates and documentation** over the Internet

### **SNMP (Simple Network Management Protocol)**

SNMP provides basic network management by using agent software in the Magnum mP62 that collects and saves pre-defined data, and responds to queries and commands from a network manager station. The agent's implementation of SNMP is per RFC1155, RFC1157, RFC1212, RFC1213 (MIB II), Bridge MIB and RFC1493.

### **Graphical User Interface (GUI) for Network Manager**

Detailed HubView / BitView graphical product representation and Icons to support Castle Rock SNMPc (which can also run under OpenView for Windows).

### **Menu Interface or CMI (Console Management Interface)**

A CMI accessed from the Magnum mP62's console port or via Telnet offers a straight-forward set of user-friendly menu options through a VT100 character terminal or equivalent emulation. Each menu level provides a number of selections which can be chosen by a single digit entered at the keyboard to control the use of that option or feature of the MNS-mP software package.

### **Link-Loss-Learn (LLL)**

The Link-Loss Learn™ (LLL) is a unique feature of the Magnum line of managed switches (patent pending). LLL simplifies and speed up fault recovery for Ethernet switches used in redundant LAN topologies. When LINK is lost on a port on which this function is enabled, the address table of the switch is immediately reset and the address learning process is re-initiated. This allows rapid ring re-configuration and fast fault recovery, rather than waiting for switch buffers to age out.

### **STP (Spanning Tree Protocol)**

The IEEE 802.1d standard Spanning Tree Protocol provides interoperable support for redundant paths and connections while preventing loops in the network.

### **Port-based VLANs**

A user may configure LAN segmentation via groups of ports. All nodes on the ports in a defined VLAN group can communicate with each other, whether connected directly to the port or connected indirectly via attached unmanaged switches and cascaded hubs, and are secure from activity on other mP62 ports and those associated nodes. A port may be defined in more than one VLAN, so that, for example, Internet access on a port can provide service to several VLAN port groups that are secure from each other.

## **Ordering Information**

Magnum MNS software is property of GarrettCom, Inc., and is licensed to GarrettCom customers for use in Magnum mP62 Fiber Switches only. For software prices and availability, please contact GarrettCom via e-mail at sales@garrettcom.com or phone (510) 438-9071.

### **Password Security**

A two level user log-in is enforced to ensure that only authorized persons can execute commands on the console device. The Administrator is the higher level than system operator.

### **QoS**

Priority traffic is handled with user-established two-level priorities based on IEEE 802.1p standards. QoS processes packets through the Switch based on the priority and type of traffic.

### **Broadcast Storm Control**

Magnum mP62 Switches have the ability to limit the bandwidth on designated ports that can be used by broadcast packets in order to prevent broadcast storms from spreading throughout a network and blocking regular packets.

### **Telnet (Terminal over the Network)**

A program that enables access to the mP62 console functions from a remote user, coming in over the Ethernet LAN instead of via connecting to the physical console port itself. Telnet functions are per RFC854 standards.

### **Port Settings Control**

Individual ports may be configured (or set) to operate according to the system manager's selections. Commands for settings include port enable/disable, speed selection, full-or half-duplex selection, and auto-negotiation on-off selection. Obviously, the physical port type (especially fiber speed) must be capable of operating as commanded.

### **BootP (Bootstrap Protocol)/ DHCP Client (Dynamic Host Configuration Protocol)**

These tools simplify initializing and maintaining a mP62 managed switch, maintaining the user's software and configuration settings for more convenient access on designated servers. DHCP as per RFC 1531 and BootP as per RFC951.

### **FTP Server for Updates**

Downloads, updates and user manuals for MNS-mP are available over the Internet for access any time anywhere. Users with TFTP are supported.

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