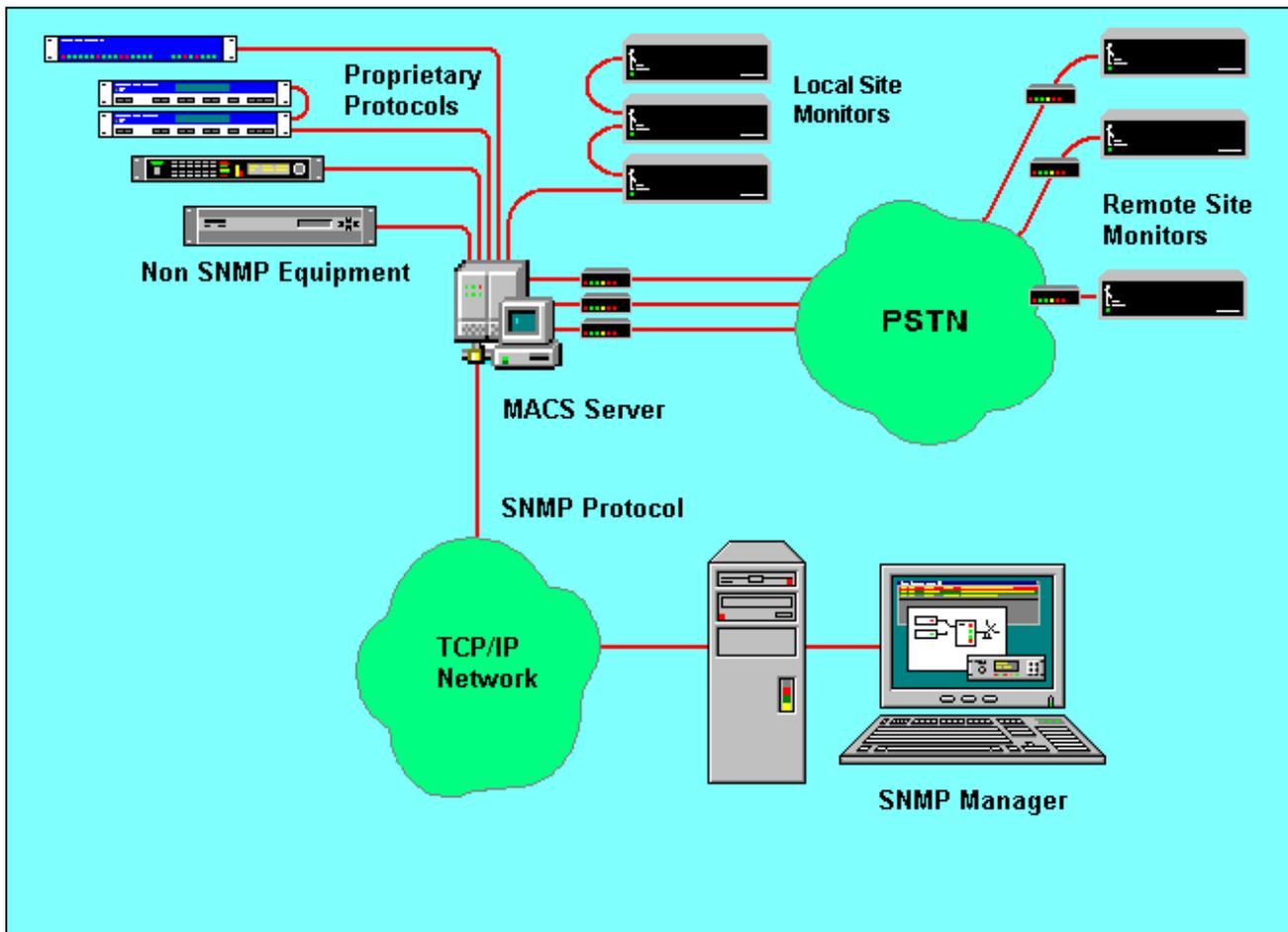




Micus Real Time Software Inc.
5863 Leslie St. Suite 127
Toronto, Ontario
M2H 1J8
Canada
Tel: (416) 493 3623
Fax: (416) 502 9083
E-mail: mikeb.micus@sympatico.ca

MICUS ALARM AND CONTROL SYSTEM (MACS) SNMP PROXY AGENT



- **Makes your non-SNMP equipment visible to your corporate SNMP network management system**
- **Maps non-SNMP equipment into SNMP objects**
- **Maps GET, GET NEXT, and SET SNMP commands into equipment specific proprietary commands**
- **Sends SNMP traps when the equipment status changes**
- **Works as an extension to the MS Windows native SNMP agent**
- **Maps any non-SNMP equipment into the MACS enterprise specific MIB**

Since its inception in 1988, the *Simple Network Management Protocol (SNMP)* has become a de facto standard for the computer networks management. Virtually all computers, workstations, bridges, routers and other similar equipment support SNMP. However, a large number of devices used in telecommunications still use proprietary protocols. Our SNMP proxy agent makes your non-SNMP equipment visible to your corporate SNMP network management system.

Micus Alarm and Control System (MACS) offers two SNMP components: MACS SNMP agent, and MACS SNMP manager. This brochure highlights the key features of our SNMP agent.

MACS SNMP Proxy Agent key features are:

- *Simple configuration:* To setup MACS SNMP agent you only need to add it to your MACS configuration. There is no need to explicitly define any SNMP objects. The agent automatically maps MACS configuration into its *Management Information Base (MIB)*.
- *Mapping to SNMP objects:* MACS represents equipment attached to it as a list of *units*. Each unit contains one or more *slots*, and each slot contains one or more *points*. All units, slots and points are automatically mapped into the SNMP objects within MACS enterprise specific MIB.
- *Executing GET, GET NEXT and SET requests:* To monitor equipment, an SNMP manager can query any MACS object using SNMP *GET* or *GET NEXT* requests. MACS controls the equipment through its digital and analog output points. To control an output point, the SNMP manager uses an SNMP *SET* request.
- *SNMP traps:* MACS SNMP agent generates an enterprise specific trap each time it detects any change in the operational status of the equipment, or within MACS itself. The traps are sent upon MACS services startup or shutdown, when communication alarms are detected or cleared, when points change their state and when a remote operation, such as a *SET* request, fails.
- *MS Windows Extension Agent:* MACS SNMP agent is built as an MS Windows SNMP *extension agent*. When the native MS Windows SNMP agent receives an SNMP request directed to MACS, it passes that request to the MACS agent. MACS agent processes the request and passes its response back to the MS Windows native agent, which in turn sends this response to the SNMP manager.
- *MACS MIB:* MACS SNMP agent is shipped with a text file that contains MACS enterprise specific MIB. MACS MIB can be added to any SNMP manager using an appropriate MIB compiler.

MACS SNMP Proxy Agent is immediately available from Micus Real Time Software Inc.