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MICUS ALARM AND CONTROL SYSTEM (MACS) SNMP MANAGER

MACS SNMP Manager DOSIT

```
OID: .iso.org.dod.internet.private.  
VAL: VIRTUAL  
OID: .iso.org.dod.internet.private.  
VAL: ICIUS  
OID: .iso.org.dod.internet.private.  
VAL: RASTKO  
OID: .iso.org.dod.internet.private.  
VAL: PUPIN  
OID: .iso.org.dod.internet.private.  
VAL: T11 MAC102  
OID: .iso.org.dod.internet.private.  
VAL: MAC_TORONTO  
OID: .iso.org.dod.internet.private.  
VAL: Ottawa  
OID: .iso.org.dod.internet.private.  
VAL: RASTKO  
OID: .iso.org.dod.internet.private.  
VAL: PLATO  
OID: .iso.org.dod.internet.private.  
VAL: WEBSITE  
OID: .iso.org.dod.internet.private.  
VAL: VSE Unit  
OID: .iso.org.dod.internet.private.  
VAL: TORONTO  
OID: .iso.org.dod.internet.private.  
VAL: DOSITEJ  
OID: .iso.org.dod.internet.private.  
VAL: MACS  
END OF MIB SUBTREE
```

walk.dositej.public.1.3.6.1.4.1.17.1.3.1.2

Plato

Interface Administrative
Status Operational

sysUpTime	11561407
IpInReceives	106215
IpOutRequests	101214
TcplnSegs	40014
tcpOutSegs	40075
UdpInDatagrams	42844
UdpOutDatagrams	56318

REFRESH

Cisco Router 2500

Cisco 2500

CPU Utilization (%)

51	17
5m avg.	5S avg.

REFRESH

Bandwidth Utilization (bits/s)

Ethernet 0	
In	32823012
Out	15847361

Serial 1	
In	56732
Out	18356

Serial 0	
In	35492
Out	14382

Network Diagram:

- 384K Modem QPSK R7/6 (RS)
- Decoder
- IF SW
- 384K Modem QPSK R7/6 (RS)
- User data
- 19.2K Modem QPSK R7/6
- IF Split
- IF SW
- Text To IF
- IF SW
- SW PA TO AIR
- SW PA TO LOAD

- Polls SNMP devices
- Receives SNMP traps
- Sends SNMP ad hoc queries
- Maps SNMP objects to your own graphical images
- Maps SNMP responses into your own text messages

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. In recent years many manufacturers whose equipment is not directly related to the computer networks adopted SNMP as a communication protocol of choice. At Micus, we firmly believe that this trend will continue. Within a few years most of the equipment used in telecommunications will support SNMP. This is why we focus on simple and robust, yet cost effective SNMP based solutions.

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 manager.

MACS SNMP Manager key features are:

- *Simple configuration:* To configure MACS SNMP manager you need only a basic understanding of the SNMP protocol. First, you need to add to your system configuration all the devices that you want to monitor and control. Next, for each SNMP object that you want to monitor or control, you need to define an alarm or control point, and associate it with the SNMP object ID.
- *Polling:* Any number of your SNMP devices may require polling. Each of them will have its own polling interval, TCP/IP address, community string and a list of SNMP objects to query.
- *Ad hoc queries:* Using MACS command line window, you can send any GET, GET NEXT, SET or WALK request to any SNMP device on your TCP/IP network. You can also automate your SNMP queries using MACS script language.
- *SNMP traps:* MACS SNMP manager can receive both generic and enterprise specific traps from any SNMP device on your network. Each trap can be mapped into a standard MACS status or alarm point. For each mapped trap you can define text, color and severity for a message to be displayed when a given trap is received.
- *Integration with MACS user friendly graphics:* Once you define your SNMP objects, they become standard MACS status and control points. You can then include these points into your custom graphical images. Status points can change their state based either on responses to the SNMP polling, or when a corresponding trap is received. Control points allow you to operate the equipment. A mouse click on a push button in your graphical image is automatically translated into an appropriate SET request and sent to the equipment.

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