SNMPv2 MIB

RFC 3418
STANDARD

• SYSTEM GROUP

• SNMP GROUP

• SNMP MIBObjects GROUP
  snmpTrap
  snmpTraps
  snmpSet (snmpSetSerialNo)

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These sheets may be used for educational purposes
ORIGINAL SYSTEM GROUP (MIB-II)

system (1)

- sysDescr (1)
- sysUpTime (3)
- sysName (5)
- sysObjectID (2)
- sysContact (4)
- sysServices (7)
- sysLocation (6)
sysServices

- Physical layer (e.g. repeaters)
- Data-link layer (e.g. bridges)
- Internet layer (e.g. IP routers)
- End-to-end (e.g. IP Hosts)
- Application (e.g. nfs-servers)
sysDescr:          "Cisco Gateway"
sysObjectID:       1.3.6.1.4.1.9.1.1
sysUpTime:         37153422   (4 days, 7 h, 12 min, 14.22 s)
sysContact:        "helpdesk@cs.utwente.nl"
sysName:           "utic01.cs.utwente.nl"
sysLocation:       "near logica meeting room"
sysServices:       6   (bridge and router functions)
## sysORTable - EXAMPLE

<table>
<thead>
<tr>
<th>sysORIndex</th>
<th>sysORID</th>
<th>sysORDescr</th>
<th>sysORUpTime</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>IF-MIB!ifMIB</td>
<td>The MIB module to describe generic objects for network interface sub-layers</td>
<td>82</td>
</tr>
<tr>
<td>2</td>
<td>SNMPv2-MIB!snmpMIB</td>
<td>The MIB module for SNMPv2 entities</td>
<td>82</td>
</tr>
<tr>
<td>3</td>
<td>TCP-MIB!tcpMIB</td>
<td>The MIB module for managing TCP implementations</td>
<td>82</td>
</tr>
<tr>
<td>4</td>
<td>IP-MIB!ip</td>
<td>The MIB module for managing IP and ICMP implementations</td>
<td>85</td>
</tr>
<tr>
<td>5</td>
<td>UDP-MIB!udpMIB</td>
<td>The MIB module for managing UDP implementations</td>
<td>85</td>
</tr>
</tbody>
</table>

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**Notes:**
- IF-MIB!ifMIB: The MIB module for managing objects for network interface sub-layers.
- SNMPv2-MIB!snmpMIB: The MIB module for SNMPv2 entities.
- TCP-MIB!tcpMIB: The MIB module for managing TCP implementations.
- IP-MIB!ip: The MIB module for managing IP and ICMP implementations.
- UDP-MIB!udpMIB: The MIB module for managing UDP implementations.
SNMP GROUP

7 READ-ONLY COUNTERS
(MIB-II HAD 29 COUNTERS!)

- THE NUMBER OF RECEIVED SNMP MESSAGES
- THE NUMBER OF RECEIVED SNMP MESSAGES, FOR A VERSION NOT SUPPORTED
- THE NUMBER OF RECEIVED SNMP MESSAGES, WITH AN INCORRECT COMMUNITY NAME / OPERATION NOT ALLOWED
- THE NUMBER OF RECEIVED SNMP MESSAGES, WHICH COULD NOT BE PARSED, OR WHICH WERE DROPPED

1 READ-WRITE VARIABLE

- TO ENABLE / DISABLE AUTHENTICATION TRAPS