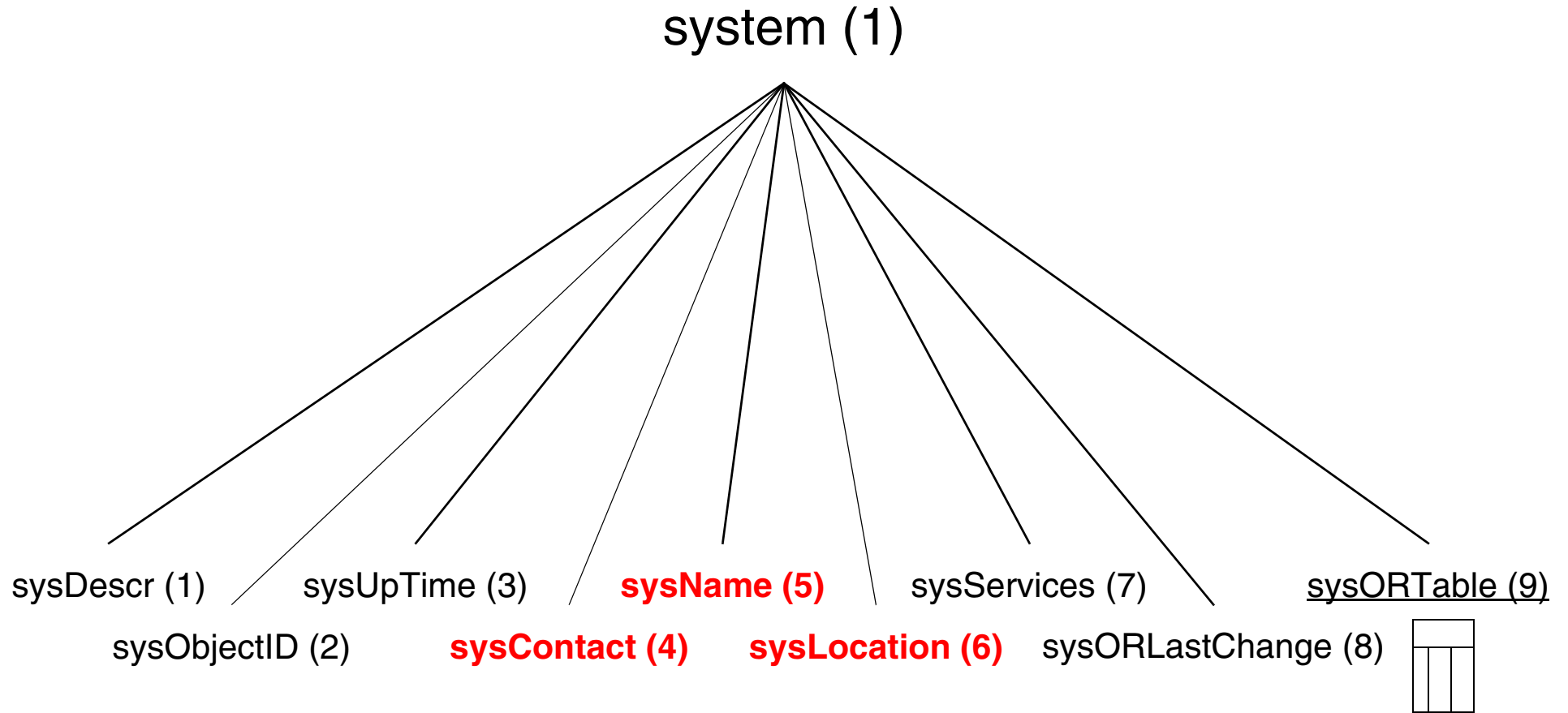# SNMPv2 MIB
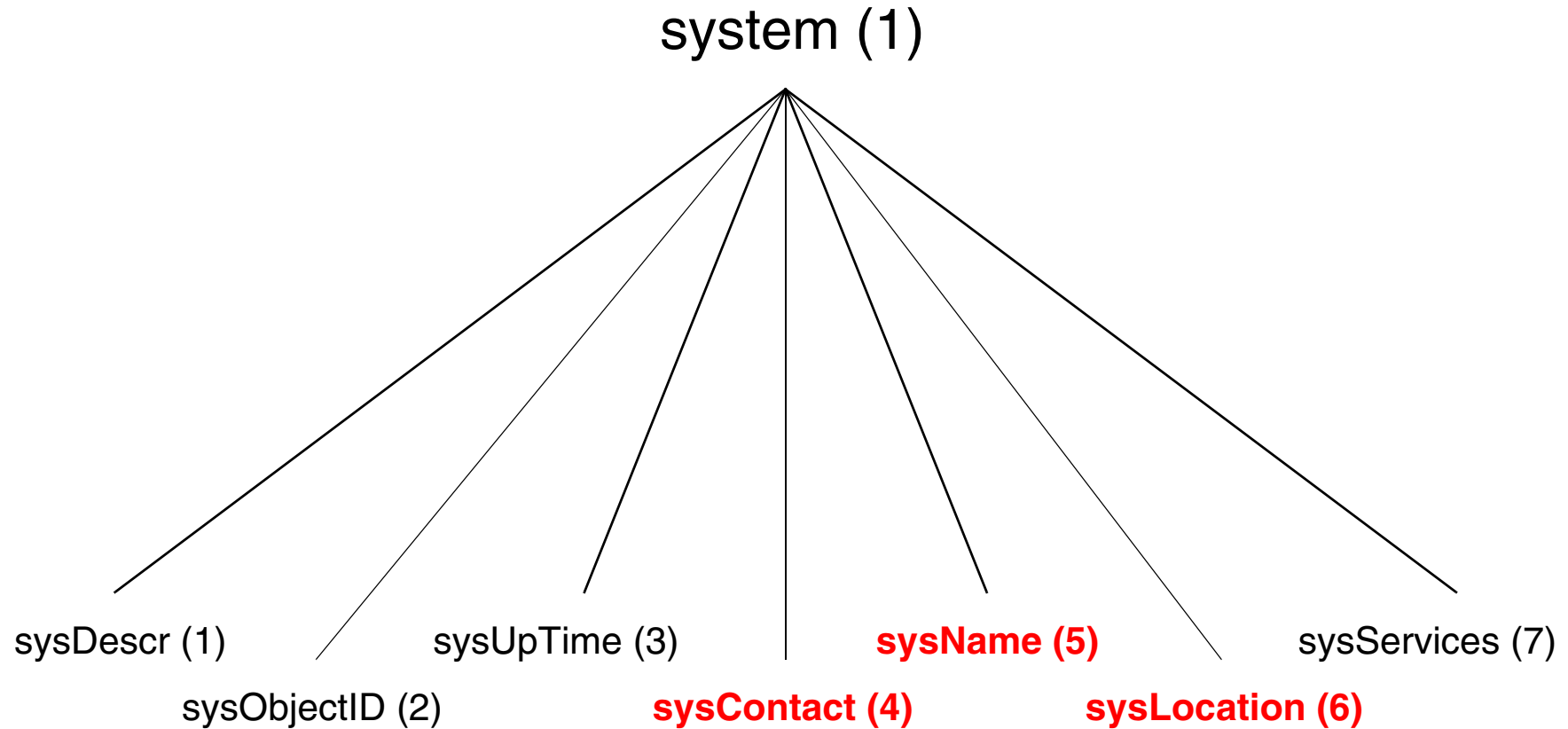
RFC 3418
STANDARD

- SYSTEM GROUP

- SNMP GROUP

- SNMP MIBObjects GROUP
snmpTrap
snmpTraps
snmpSet (snmpSetSerialNo)

SYSTEM GROUP

system (1)

sysDescr (1)   sysUpTime (3)   **sysName (5)**   sysServices (7)   sysORTable (9)

sysObjectID (2)   **sysContact (4)**   **sysLocation (6)**   sysORLastChange (8)

ORIGINAL SYSTEM GROUP (MIB-II)

system (1)

sysDescr (1)

sysObjectID (2)

sysUpTime (3)

sysContact (4)

sysName (5)

sysLocation (6)

sysServices (7)

sysServices

0	x	0	0	x	x	x	x

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)
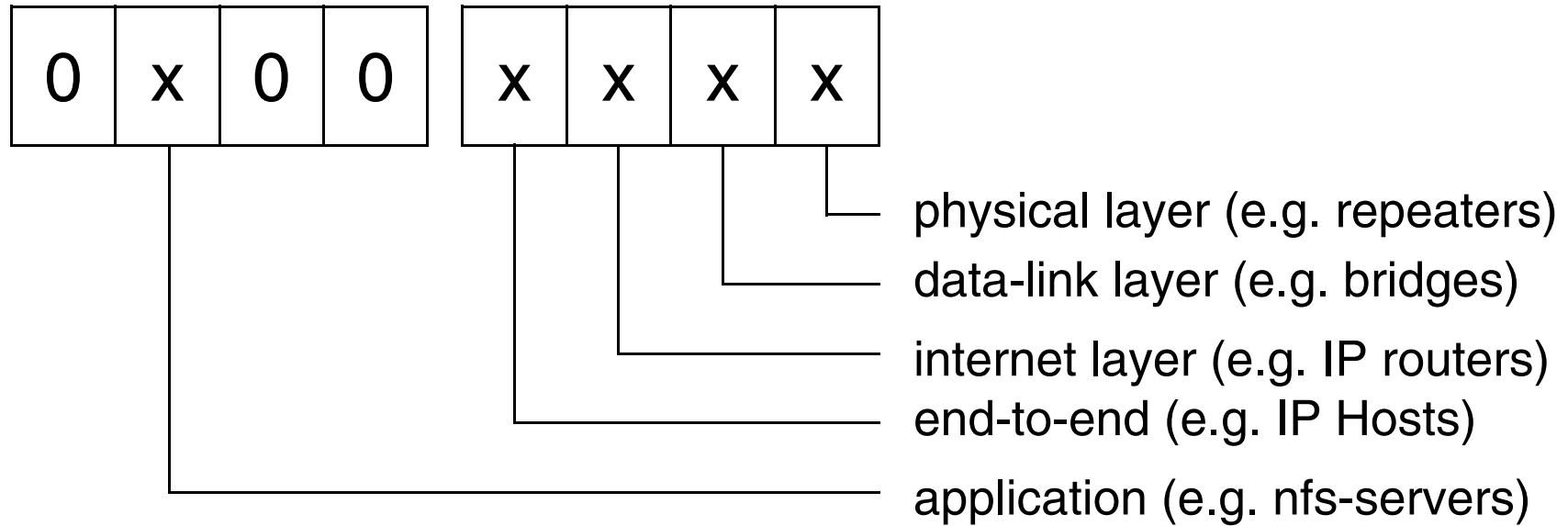
EXAMPLE

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

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

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