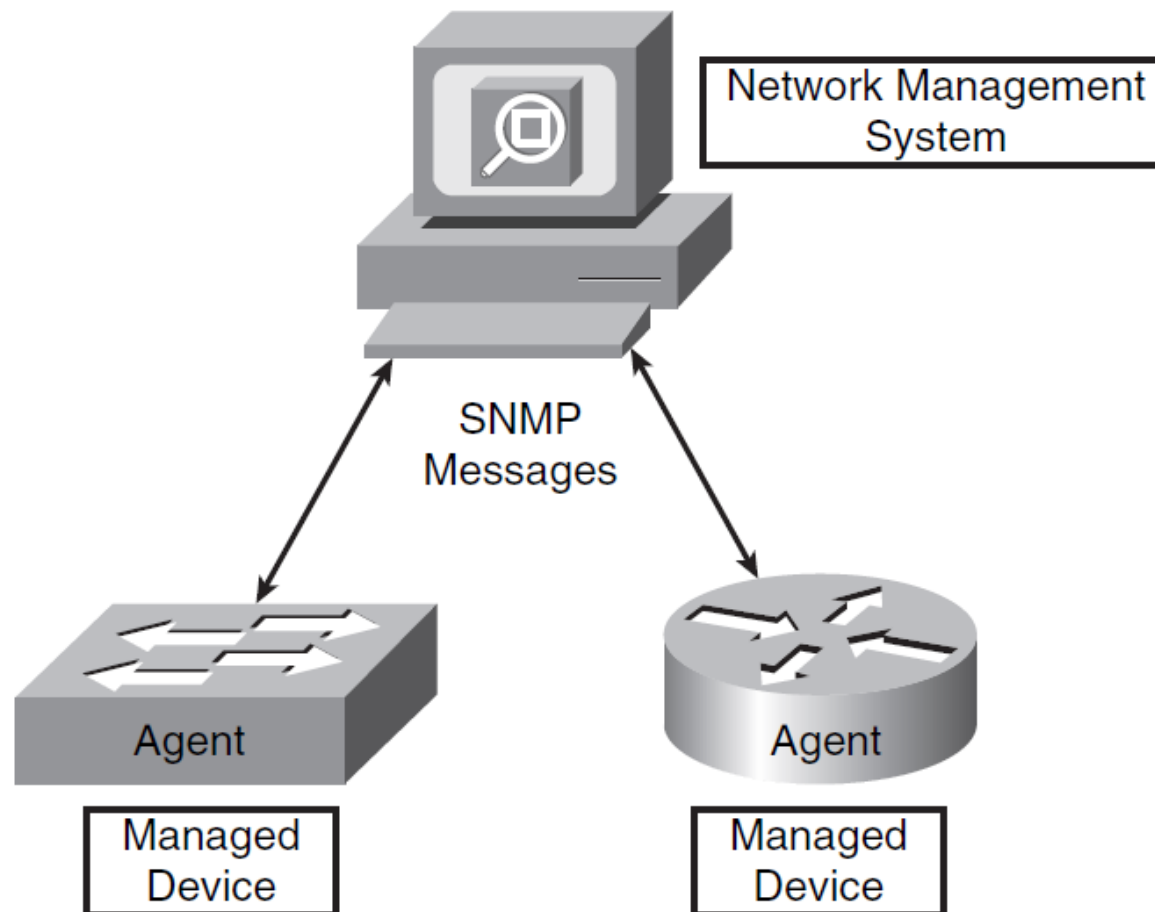


Chapter 16

SNMP

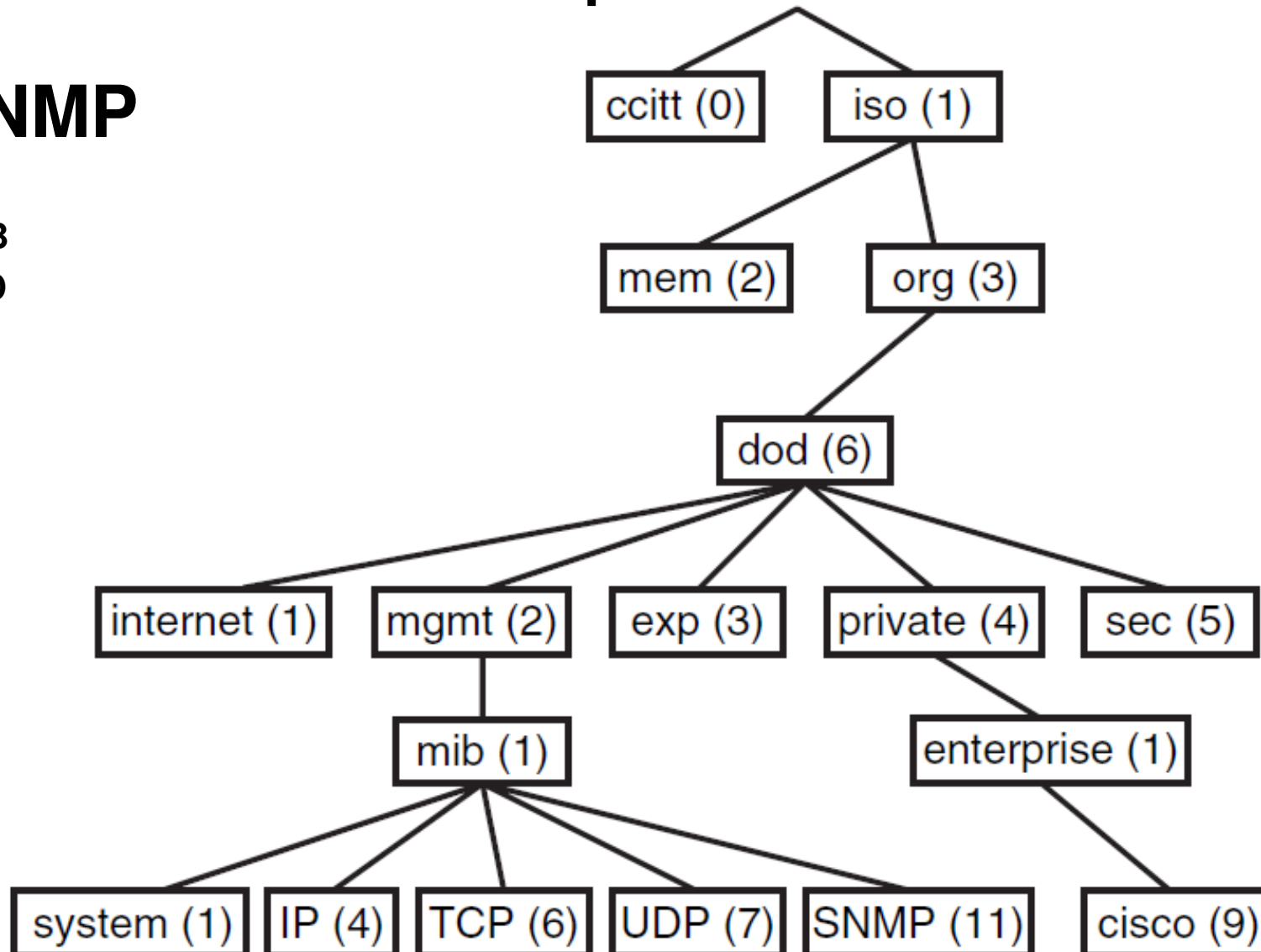




Chapter 16

SNMP

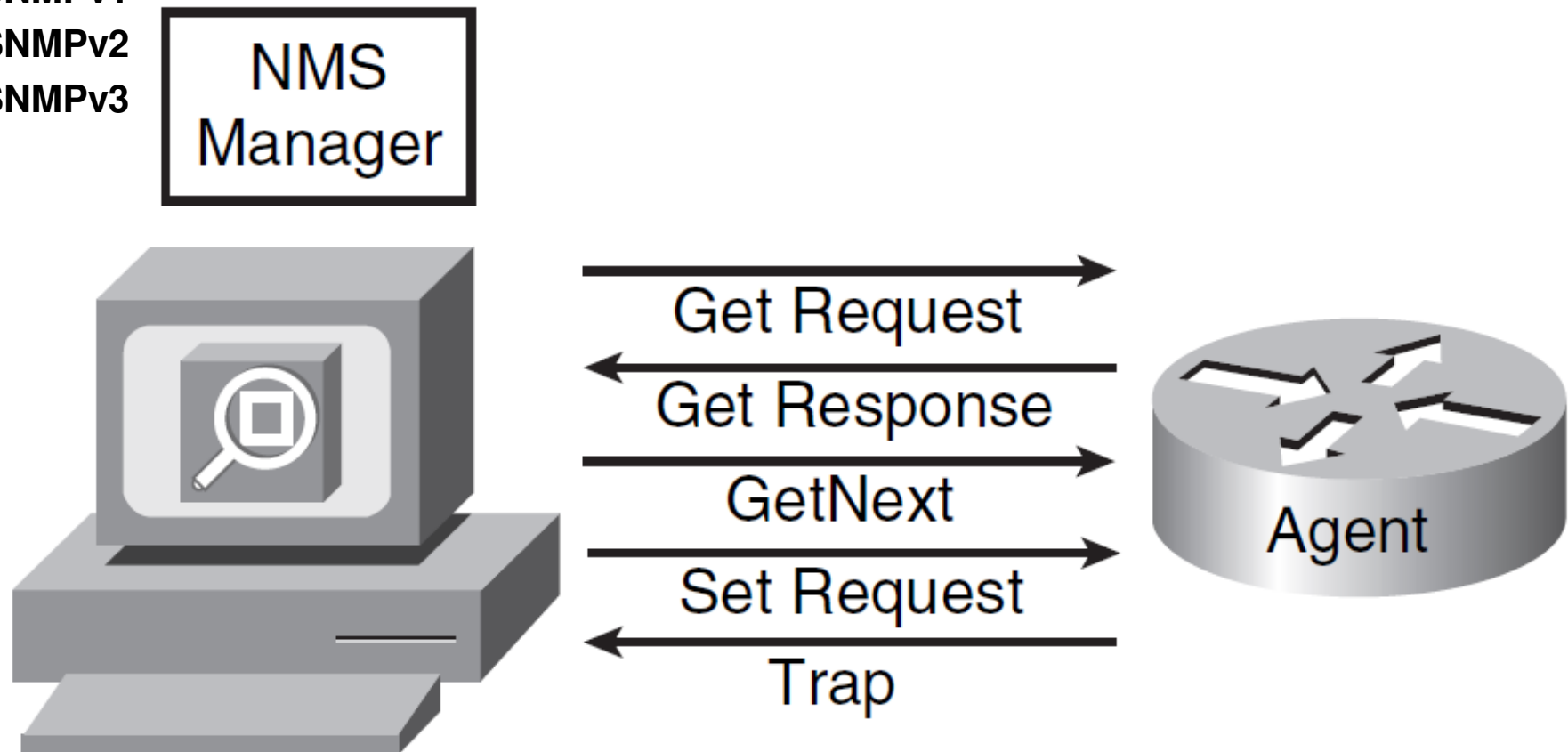
- MIB
- OID



Chapter 16

SNMP Message Types

- SNMPv1
- SNMPv2
- SNMPv3



Chapter 16

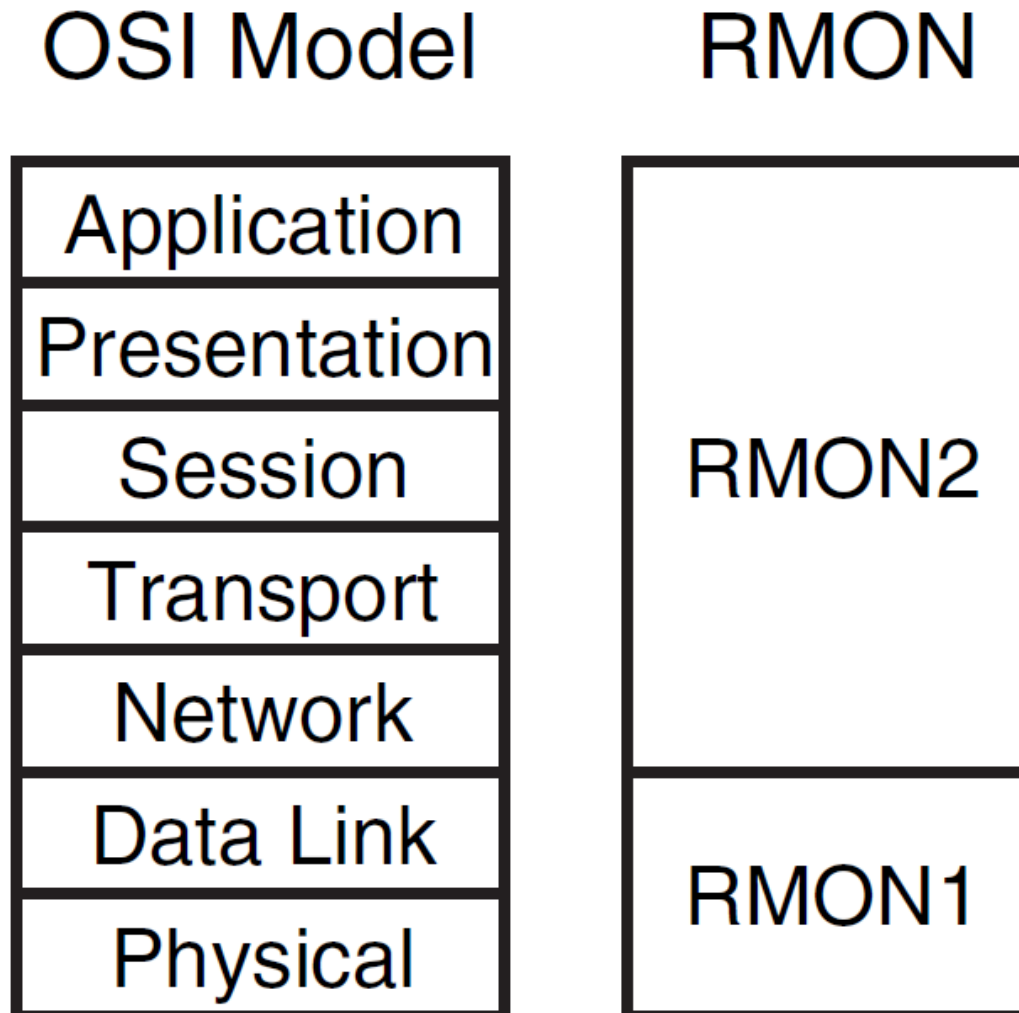
Network Management Technologies

- RMON
 - RMON1
 - RMON2
- NetFlow
- CDP
- Syslog



Chapter 16

RMON



Chapter 16

RMON1 Groups

ID	Name	Description
1	Statistics	Contains real-time statistics for interfaces: packets sent, bytes, CRC errors, fragments
2	History	Stores periodic statistic samples for later retrieval
3	Alarm	An alarm event is generated if a statistic sample crosses a threshold
4	Host	Host-specific statistics
5	HostTopN	Most active hosts
6	Matrix	Stores statistics for conversations between two hosts
7	Filters	Allows packets to be filtered
8	Packet Capture	Allows packets to be captured for subsequent analysis
9	Events	Generates notification of events
10	Token Ring	Token Ring RMON extensions

Chapter 16

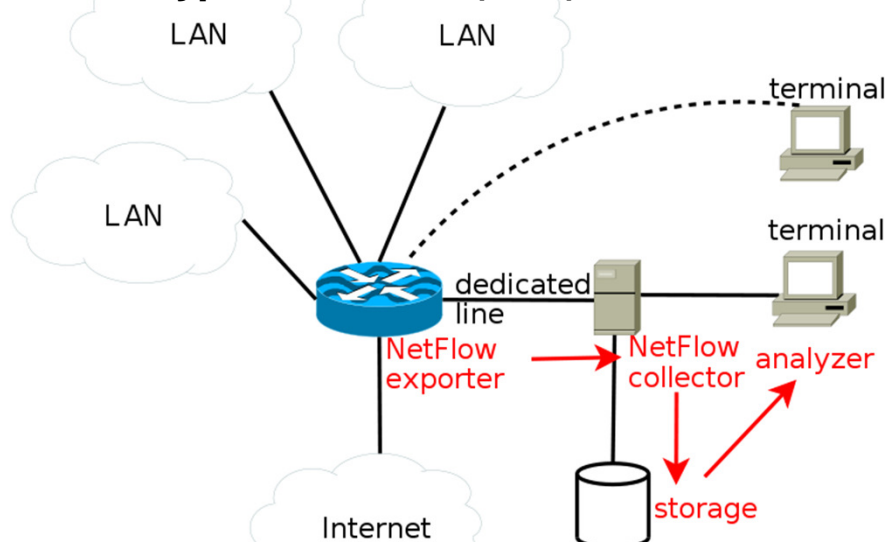
RMON2 Groups

ID	Name	Description
11	Protocoldir	Lists the protocols the device supports
12	Protocoldis	Traffic statistics for each protocol
13	Addressmap	Contains network-to-MAC layer address mapping (IP-to-MAC)
14	nlHost	Contains statistics for traffic sent to or from network layer hosts
15	nlMatrix	Contains statistics for conversations between two network layer hosts
16	alHost	Contains Application layer statistics for traffic sent to or from each host
17	alMatrix	Contains Application layer statistics for conversations between pairs of hosts
18	Usrhistory	Contains periodic samples of specified variables
19	Probeconfig	Probe parameter configuration

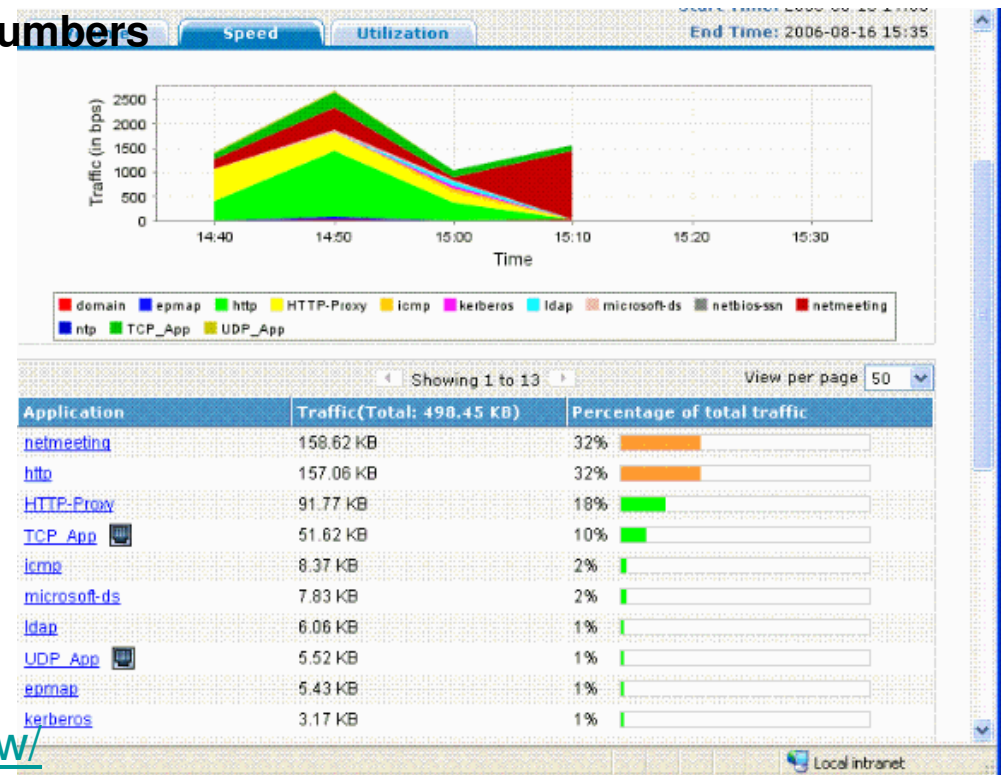
Chapter 16

NetFlow

- Source and destination IP addresses
- Source and destination interface identifiers
- TCP/UDP source and destination port numbers
- Number of bytes and packets per flow
- IP type of service (ToS)



<http://www.networkuptime.com/tools/netflow/>





Chapter 16



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