

MIBs

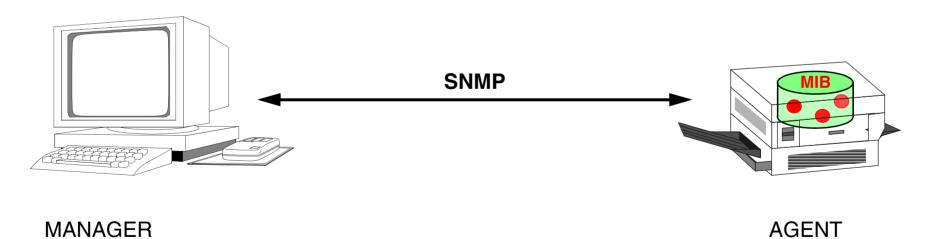
MANAGEMENT INFORMATION BASES

CONTAIN THE MANAGED OBJECTS (VARIABLES)

THAT REPRESENT THE RESOURCES OF A SYSTEM

AND WHICH MAY BE MONITORED AND MODIFIED BY A (REMOTE) MANAGER

TO CONTROL THE BEHAVIOUR OF THAT SYSTEM





MIB DEFINITION AND MIB INSTANCE

MIB DEFINITIONS SHOULD BE KNOWN BY:

- THE IMPLEMENTORS OF THE MANAGED SYSTEM
 - THE MANAGER

THE MIB IS INSTANTIATED WITHIN THE MANAGED SYSTEM



MODULARITY

THE MANAGED OBJECTS OF A SYSTEM ARE USUALLY DEFINED IN MULTIPLE MIB DEFINITIONS

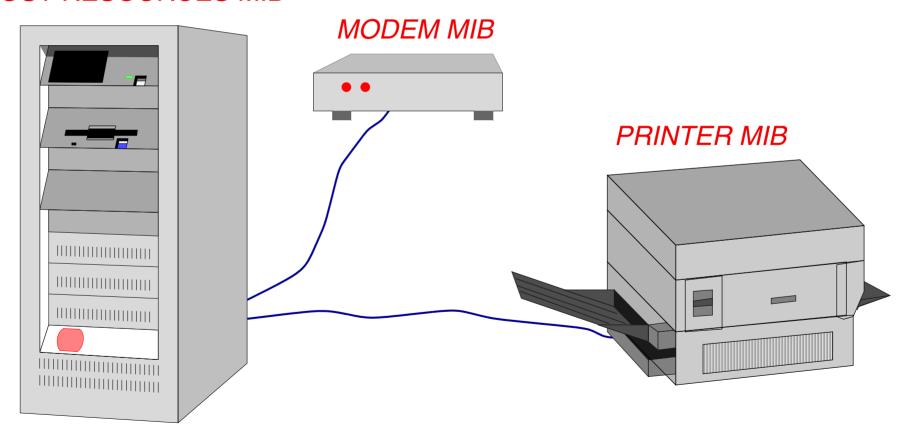
MODULES

- DIFFERENT MODULES CAN BE DEFINED BY DIFFERENT TEAMS
- MANAGEMENT FUNCTIONALITY CAN GRADUALLY BE EXTENDED
 - DIFFERENT TYPES OF SYSTEMS
 CAN SUPPORT DIFFERENT MIB MODULES
 - VENDORS CAN EXTEND THE MANAGEMENT FUNCTIONALITY
 VIA PROPRIETARY MIBS



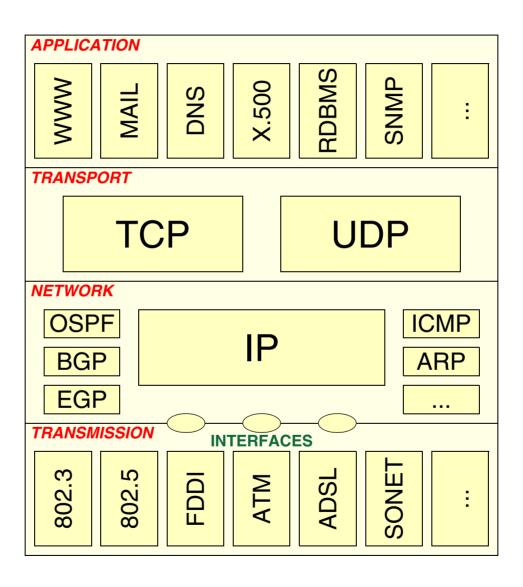
HARDWARE MIBS

HOST RESOURCES MIB



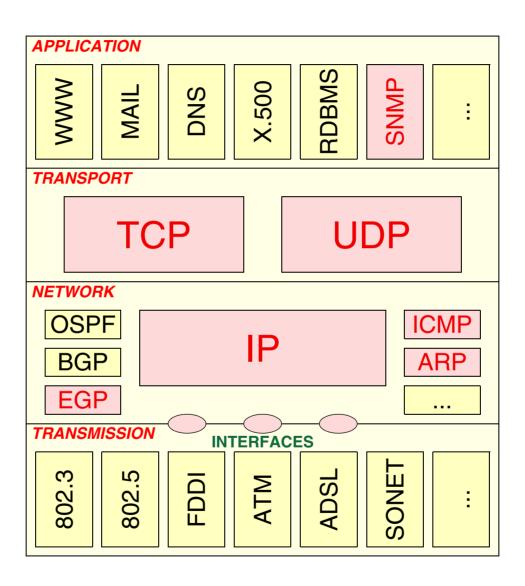


PROTOCOL MIBS





PROTOCOL MIBS - EXAMPLE: MIB-II





HARDWARE SPECIFIC MIBs

Title	RFC	STATUS
Host Resources MIB	2790	D
Entity MIB	2737	Р
Job Monitoring MIB	2707	I
Printer	1759	Р
Modem	1696	Р
Parallel printer-like Hardware	1660	D
RS-232-like Hardware	1659	D
Character Stream Devices	1658	D
UPS	1628	Р



TRANSMISSION MIBs

Title	RFC	STATUS
UNI/NNI Multilink Frame Relay function	3020	Р
Frame Relay/ATM PVC Service Interworking Function	2955	Р
Frame Relay Service	2954	Р
Inverted Stack Table Extension to the Interfaces Group	2864	Р
Interfaces Group	2863	D
Fabric Element in Fibre Channel Standard	2837	Р
NBMA Next Hop Resolution Protocol (NHRP)	2677	Р
Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions	2674	Р
Radio Frequency MIB for MCNS/DOCSIS compliant RF interfaces	2670	Р
Cable Device MIB for DOCSIS compliant Cable Modems and Cable Modem Termination Systems	2669	Р
IEEE 802.3 Medium Attachment Units (MAUs)	2668	Р
Object Identifiers for Identifying Ethernet Chip Sets	2666	I



Title	RFC	STATUS
Ethernet-like Interface Types	2665	Р
ADSL Lines	2662	Р
SONET/SDH Interface Type	2558	Р
ATM Management	2515	Р
Textual Conventions and OBJECT-IDENTITIES for ATM Management	2514	Р
DS3/E3 Interface Type	2496	Р
DS1, E1, DS2 and E2 Interface Types	2495	Р
DS0 and DS0 Bundle Interface Type	2494	Р
Classical IP and ARP Over ATM (IPOA)	2320	Р
IEEE 802.12 Repeater Devices	2266	Р
Dial Control	2128	Р
ISDN	2127	Р
Frame Relay DTEs	2115	D
IEEE 802.3 Repeater Devices	2108	Р
Data Link Switching	2024	Р
IEEE 802.12 Interfaces	2020	Р
IEEE 802.5 Station Source Routing	1749	Р



Title	RFC	STATUS
IEEE 802.5	1748	D
SMDS	1694	D
Source Routing Bridges	1525	Р
FDDI	1512	Р
Bridges	1493	D
Bridge Network Control Protocol of PPP	1474	Р
IP Network Control Protocol of PPP	1473	Р
Security Protocols of PPP	1472	Р
Link Control Protocol of PPP	1471	Р
Multiprotocol Interconnect over X.25	1461	Р
X.25 Packet Layer	1382	Р
X.25 LAPB	1381	Р



NETWORK LAYER MIBs

Title	RFC	STATUS
IPv6 MIB for The Multicast Listener Discovery Protocol	3019	Р
Protocol Independent Multicast MIB for IPv4	2934	E
Internet Group Management Protocol MIB	2933	Р
IPv4 Multicast Routing MIB	2932	Р
Textual Conventions for Internet Network Addresses	2851	Р
Definitions of MO for the Virtual Router Redundancy Protocol	2787	Р
IP Tunnel MIB	2667	Р
MIB for IPv6: ICMPv6 Group	2466	Р
MIB for IPv6: Textual Conventions and General Group	2465	Р
Definitions of MO for Multicast over UNI 3.0/3.1 based ATM Networks	2417	Р
Integrated Services - Guaranteed Service Ext.	2214	Р
Integrated Services	2213	Р
RSVP	2206	Р
IP Forwarding Table	2096	Р



Title	RFC	STATUS
IP MIB	2011	Р
IP Mobility Support	2006	Р
OSPF Version 2	1850	D
RIP Version 2 MIB Extension	1724	D
BGP Version 4	1657	D
Identification MIB	1414	Р
BGP Version 3	1269	Р
MIB-II	1213	S



TRANSPORT LAYER MIBs

Title	RFC	STATUS
Real-Time Transport Protocol	2959	Р
IP Version 6 MIB for the User Datagram Protocol	2454	Р
IP Version 6 MIB for the Transmission Control Protocol	2452	Р
User Datagram Protocol (UDP)	2013	Р
Transmission Control Protocol (TCP)	2012	Р



APPLICATION LAYER MIBs

Title	RFC	STATUS
MIB for the PINT Services Architecture	3055	Р
Mail Monitoring MIB	2789	Р
Network Services Monitoring	2788	Р
RADIUS Accounting Server MIB	2621	I
RADIUS Accounting Client MIB	2620	I
RADIUS Authentication Server MIB	2619	Р
RADIUS Authentication Client MIB	2618	Р
Directory Server Monitoring MIB	2605	Р
Definitions of Managed Objects for WWW Services	2594	Р
Application Management MIB	2564	Р
Definitions of System-Level Managed Objects for Applications	2287	Р
SNMPv2 MIB	1907	Р
RDBMS MIB	1697	Р
DNS Resolver MIB Extensions	1612	Р
DNS Server MIB Extensions	1611	Р

REMOTE MONITORING AND MEASUREMENT

Title	RFC	STATUS
Remote Network Monitoring (RMON) MIB	2819	S
Traffic Flow Measurement: Meter MIB	2720	Р
RMON MIB Extensions for Switched Networks Version 1.0	2613	Р
RMON Version 2	2021	Р
Token Ring extensions to RMON	1513	Р

DISTRIBUTED MANAGEMENT

Title	RFC	STATUS
Notification Log MIB	3014	Р
Expression MIB	2982	Р
Event MIB	2981	Р
Remote Ping, Traceroute, and Lookup Operations	2925	Р
Delegation of Management Scripts	2592	Р
Scheduling Management Operations	2591	Р

VENDOR SPECIFIC MIBs

Title	RFC	STATUS
APPN/HPR in IP Networks	2584	Р
TN3270E Response Time Collection	2562	Р
TN3270E	2561	Р
Extended Border Node	2457	Р
APPN TRAPS	2456	Р
APPN	2455	Р
HPN	2238	Р
DLUR	2232	Р
APPC	2051	Р
TCP/IPX Connection	1792	Е
SNA Data Link Control (SDLC)	1747	Р
Appletalk	1742	Р
SNA NAUs	1666	Р
DECNET Phase IV	1559	D

MISCELLANY

Title	RFC	STATUS
Common Open Policy Service (COPS) Protocol Clients	2940	Р
Physical Topology	2922	I
Service Level Agreements Performance Monitoring	2758	Е
Definitions of Managed Objects for Extensible SNMP Agents	2742	Р
Collection and Storage of Accounting Information for CO Networks	2513	Р
Accounting Information for ATM Networks	2512	Р
Textual Conventions for MIB Modules Using Performance History Based on 15 Minute Intervals	2493	Р
Techniques for managing asynchronously generated alerts	1224	E

NAMING OF MIBs

