

Internet Protocols

Overview

Internet documents

- Internet drafts
- Proposed, draft and Internet standard
- Informational
- Historical
- Experimental
- Best Common Practice
- For Your Information

IP

- Addressing
- IPv4 versus IPv6
- Unreliable
- End-to-end
- Datagram independence

ARP

- Layer 2 1/2?
- MAC addresses
- IP addresses
- ARP tables/caches

ICMP

- Status and errors
- Unreachables
- Echoes and discovery
- Redirect
- Source quench
- Other...

DHCP

- Assignment
- Leases and renewals
- Dynamic updates

Routing

- RIP
- OSPF
- BGP

IP multicast

- Group management
- Routing
- Reliability

TCP

- Connection oriented
- Windowing
- Congestion avoidance

Interactive protocols

- UDP
- SIP
- H.323

Security

- IPsec
- Intrusion Detection
- Firewalls

Management

- In-band versus out-of-band
- SNMP