

Zkratky	
ARP	Address Resolution Protocol
RARP	Reverse ARP
NAT	Network Address Translation
MAC	Media Access Control
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name Server
ICMP	Internet Control Message Protocol
TCP	Transmission Control Protocol
UDP	User Datagram Protocol
RPC	Remote Procedure Call
HTTP	Hyper-Text Transfer Protocol
CSMA	Carrier-Sense Multiple Access
ATM	Asynchronous Transfer Mode
MPLS	MultiProtocol Label Switching
OSPF	Open Shortest Path First
RIP	Routing Information Protocol
BGP	Border Gateway Protocol
SNMP	Simple Network Monitoring Protocol
RMON	Remote Network Monitoring
MTU	Maximum Transmission Unit

Ethernet	
10Base5	koax, max. 500m
10Base2	koax, max. 185m
10Base-T	twisted pair, UDP/STP
100Base-TX	TP, 100Mb/s
100Base-FX	optika, 100Mb/s
1000Base-TX	TP, 1Gb/s
1000Base-SX	optika, 1Gb/s
10GBase-SR	optika, 10Gb/s
40Gb/s	neni vyuzivano
100Gb/s	malo instanci, napr. Praha -> Brno
Terabit Ethernet	oznaceni pro 100Gb/s+ specifikace az do 400Gb/s

OSI
Fyzicka
Linkova
Sitova
Transportni
Relacni
Prezentacni
Aplikacni

CSMA
nez stanice zacne vysilat, nasloucha zda-li nekdo jiny nevysila
pokud ne, zacne
pokud ano
- pocka a pak hned zacne
- pocka a pak s nahodnym zpozdenim zacne
CSMA/CD
pri vysilani i nasloucha
pokud zjist kolizi, prerusi vysilani
Ethernet
CSMA/CA
request to send / clear to send
centralni stanice udeluje povoleni k vysilani
WiFi

Fyzicka
umoznuje prenos bitu kanalem
hub, repeater

Linkova
detekce/korekce chyb
ramce
rizeni pristupu k lince
MAC
switch

Sitova
adresace a smerovani
IP
router

Transportni
rozklad dat na pakety
adresa, port
TCP/UDP

Relacni
logicke rozhrani pro aplikace
synchronizace
RPC

Prezentacni
komprese/dekomprese
kodovani
sifrovani

Aplikacni
interface pro uzivatele
HTTP

