

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 zjistí 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



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