Cheatography

PSI Cheat Sheet

by kenny11cz via cheatography.com/53968/cs/15866/

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, naslouchа 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 naslouchа
- pokud zjisti 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

- komperse/dekomprese
- kodovani
- sifrovani

Aplikacni

- interface pro uzivatele
- HTTP

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