

41092 Network Fundamentals

Lecture 1

Chapter 1: Roadmap

- 1.1 What is the Internet
- 1.2 Network edge (end systems, access network, links)
- 1.3 Network core (packet switching, circuit switching, network structure)
- 1.4 Delay, loss, throughput in networks
- 1.5 Protocol layers, service models
- 1.6 History

WHAT IS THE INTERNET

Billions of connected computing devices

Hosts = are end systems

Running network apps

Communication links

- Include fiber, copper, radio, satellite
- Transmission rate: is called **bandwidth**

Packet Switches

Forward packets (chunks of data)

- Via routers and switches

INTERNET – is the network of networks

- Mobile networks
- Home networks
- Institution networks
- Interconnected ISPs

All connected via ISP Access networks

Protocols – control sending, receiving of messages

Eg. TCP, IP, HTTP, Skype

Internet Standards

RFC: Request for comments

IETF: Internet Engineering Task Force

Protocol

They define format, order messages sent and received among network entities, and actions taken on message transmission, receipt

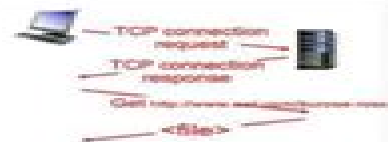
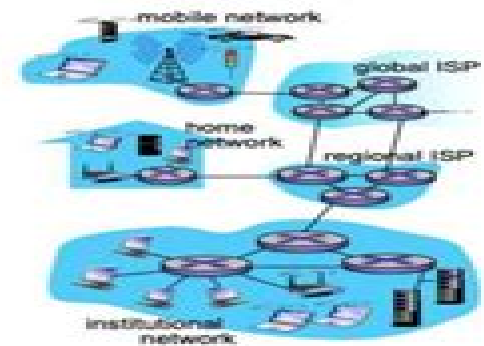
Human protocols include

Hello → ← Hi

What time is it? → ← 4:20 pm

Specific messages are sent then specific actions taken when messages received, or other events

Network Protocols
Machines rather than humans
All communication activity in Internet governed by protocols



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