

Panel 1

Review (Tree)

Topology: Mesh, Star, Bus, Ring, Hybrid

Transmission Mode: Simplex, Half-Duplex, Duplex

Line Configs: Multi-user
Point-to-Point

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Panel 2

Quiz 1 (a)

① Which transmission mode can be compared to:

- a) computer to monitor connection
- b) a TV broadcast
- c) a German Autobahn (Interstate)
- d) a reversible commuter lane

② Which topology features a point-to-point line configuration

- mesh
- ring
- star
- bus

(check all that apply)

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Panel 3

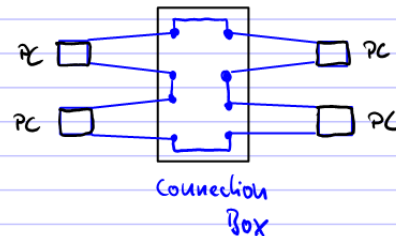
Quiz I

③ Assume six devices are arranged in a Mesh Topology.

a) How many cables are needed?

b) How many IO ports are needed for each device?
(Extra Credit)

④ In what topology are the nodes to the right arranged?



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Panel 4

Network Categories

LAN: Local area network; private; one owner,
Speeds up to 100 Mbps

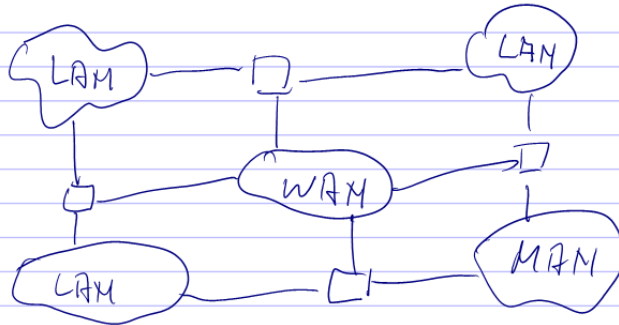
MAN: Metropolitan area network; mixed; usually
connects 2 or more LANs; e.g.
cable network; STU main campus with
Law school

WAN: Wide area network; spans countries or
world

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Panel 5

Often WANs connect LANs to form an internet

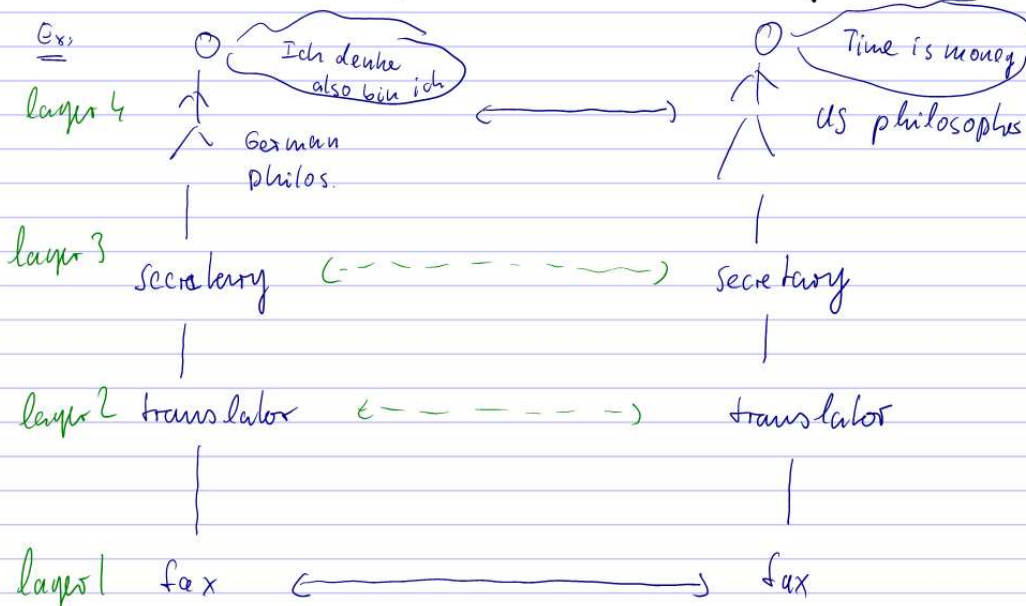


The Internet uses a part. protocol and is one possible internet.

Panel 6

Chapter 3: The OSI Model

Networks are layered to reduce complexity.



Panel 7

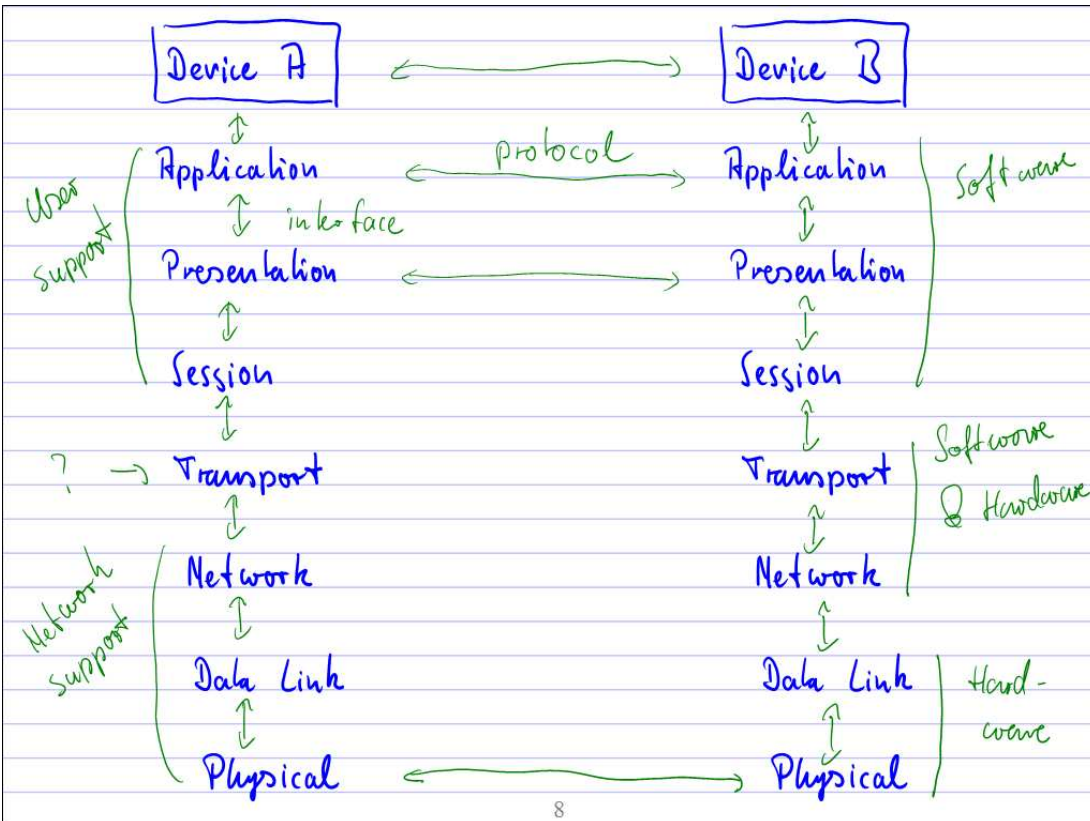
OSI - Open Systems Interconnection Model

An ISO standard to abstractly model all networks
 OSI has 7 layers:

1. Physical
2. Data Link
3. Network Layer
4. Transport
5. Session
6. Presentation
7. Application

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Panel 8



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