Open Systems Interconnect (OSI) Reference Model (1) Established in 1947, the International Standards Organization (150) is a multinational body dedicated to worldwide agreement on international standards. In late seventiei & early eightie 150 developed a network architecture and reference model called OSI model. OSI implies that 2 entirely different systems can be interconnected in a mo manner So Het Hey can communicate with each other. Objective of OSI model is to understand, create, design & implement network standards . It schemes for communication among multiple N/ws. OSI allows systems of different mone factories to communicate with each other w/o requiring any logical changes in the hardware on the SIN

This model which has become the foundation for NIW standards activities, is based on the concept of layered architecture that uses seven well-defined, districtive yet related layers.

OSI LAYELS

FUNCTIONS

Application

Lager

Provides end-users with an interface to the network. Protocols at this layer provides user-oriented applications such as electronic mail, file transfer, directory services, remote login etc

Presentation

Translation of data, data compression, data encryption

Session

Allows two systems to enter Anto a dialog. It allows the communication blw 2 processes to take place in either helf-duples or full duples mode.

Synchonizing the flow of date, providing periodic che chpoints into the date for date recovery in event of faiture.

Ensuring completion of data exchange before

He session termendes

Transport

End-to-end delievery (process to process)
Reliable of unreliable data Transfer
Segmentation & reassembly
Plow control of data
Multiplexing and demultiplexing of data streams

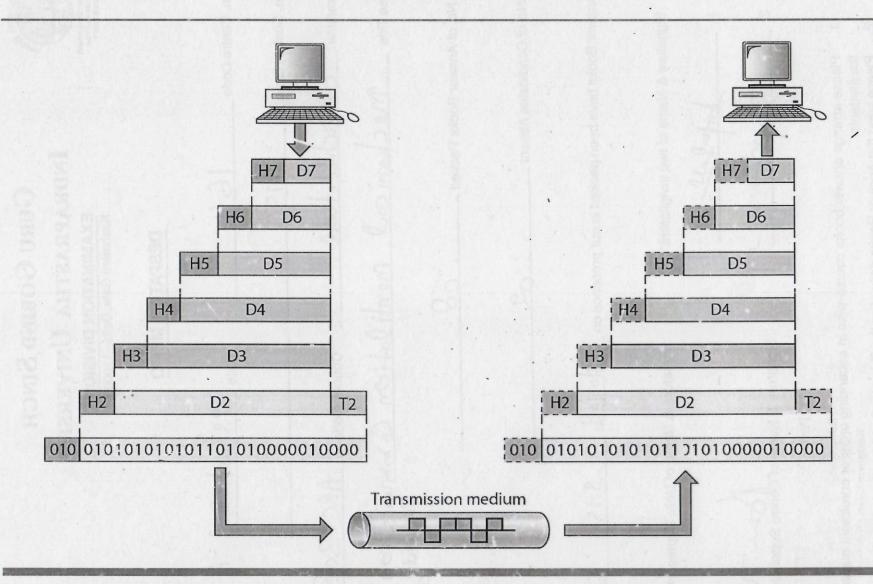
Ne twonh

Provides routing mechanisms for path delaminate

Combines bits into bytes and bytes into Data Link supports error detection that occur during Transmission of date Provides flow control of dete Provides access to media using MAZ protocols Inlespee blw s/w on the host & the physical layer. Transfers bits bow network devices Physical across media Specifies functional, physical and electrical properties of connectors, media (vo Hage levels, più assignments, speed etc)

void "operator new (size (size)

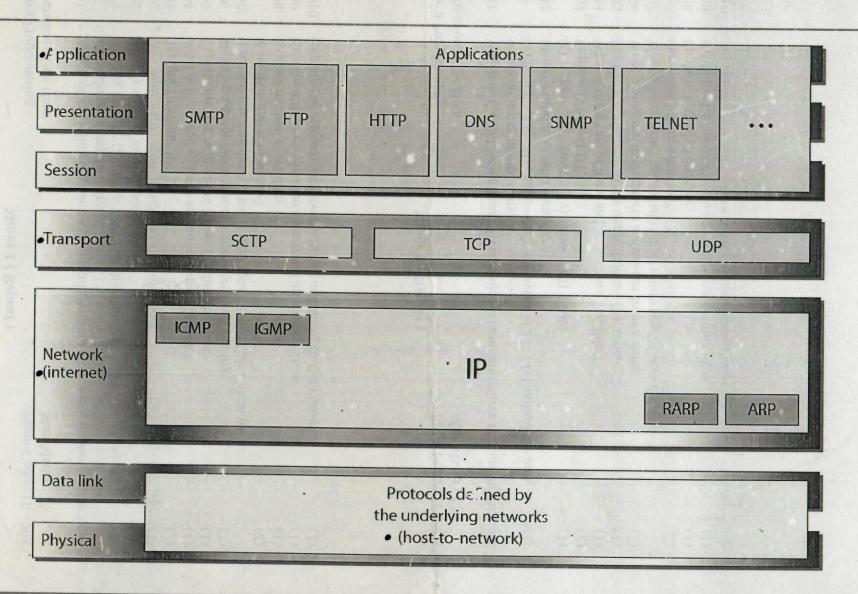
An exchange using the OSI model







TCP/IP and OSI model





Relationship of layers and addresses in TCP/IP

