

Computer Networks I 3rd stage

Lecture No. 7 OSI Model Presentation -session Layer

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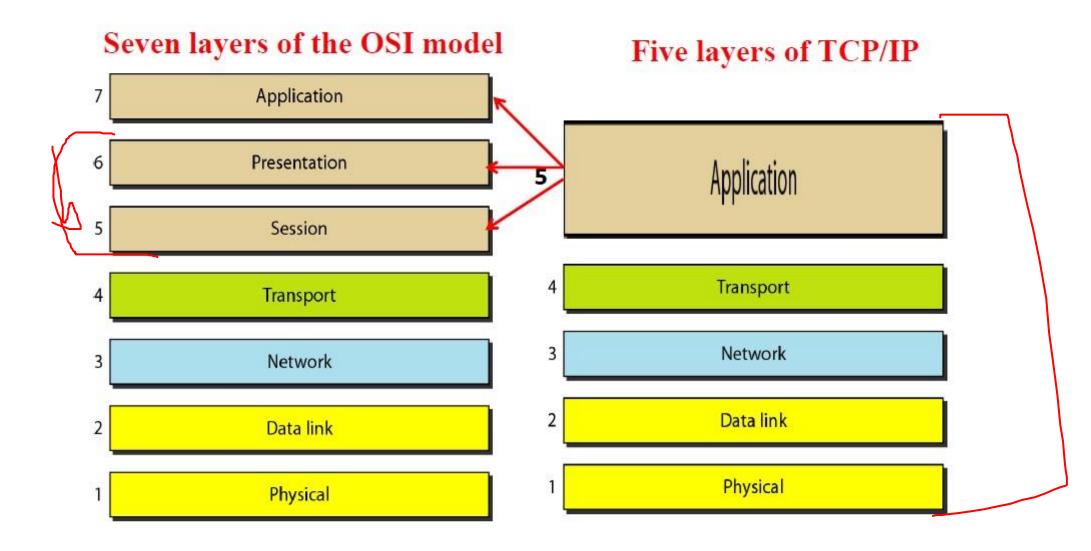
THE OSI MODEL

Established in 1947, the International Standards Organization (ISO) is a multinational body dedicated to worldwide agreement on international standards. An ISO standard that covers all aspects of network communications is the Open Systems Interconnection (OSI) model. It was first introduced in the late 1970s.

Note:

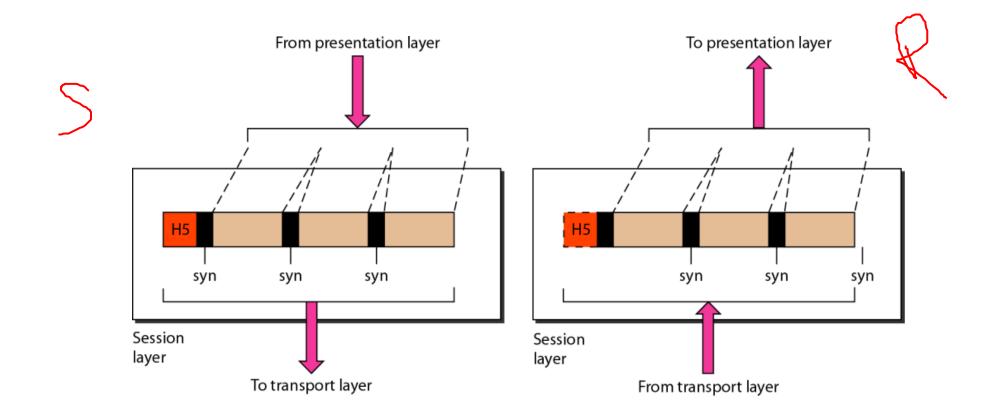
ISO is the organization. OSI is the model.

OSI and TCP/IP network models





The session layer is responsible for dialog control and synchronization



Duties of Session layer

1.Dialog control:

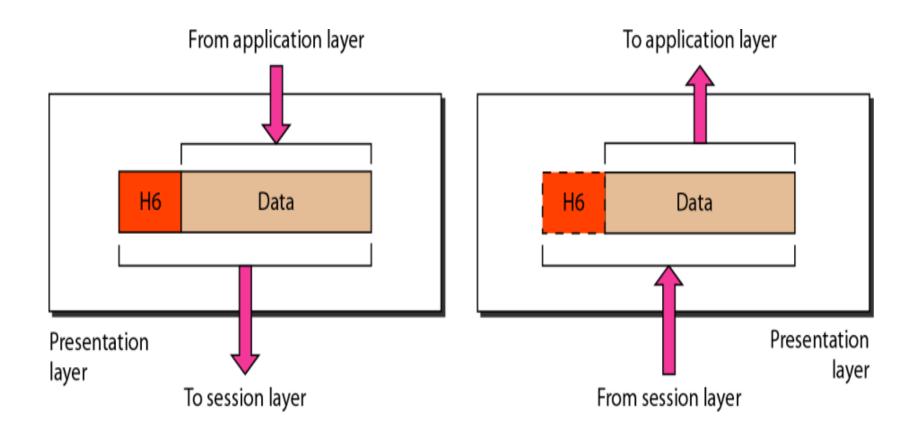
Allows two systems to enter into dialog. It allows communication between two processes in either half or full duplex.

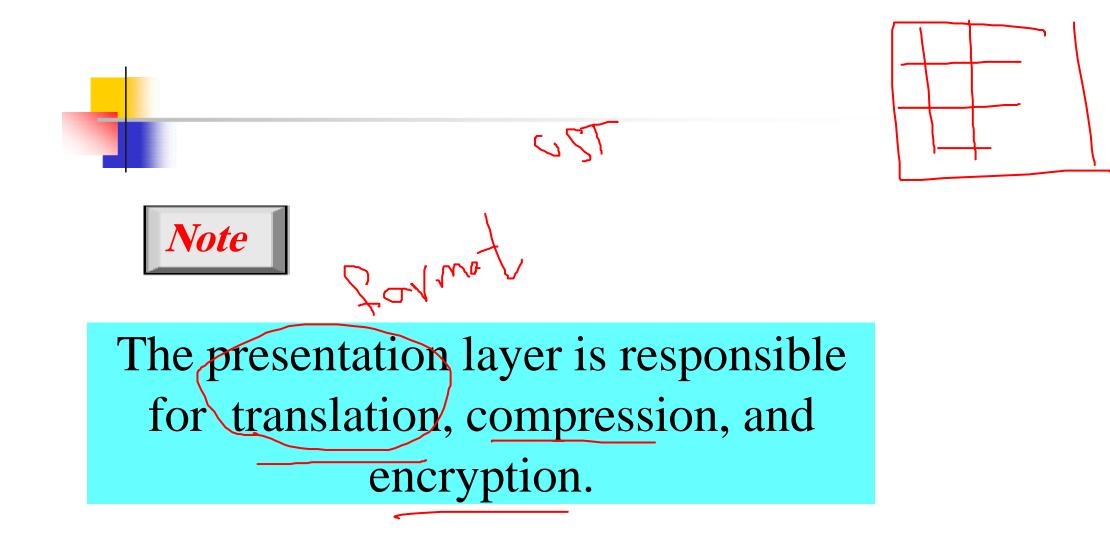
2.Synchronization (Recovery)

Allow a process to add **check points** (Synchronization point) into a stream of data . So that if a failure of some sort occurs between checkpoints, the layer can retransmit all data since the last checkpoint.

Presentation layer

The presentation layer is concerned with the syntax and semantics of the information exchanged between two systems





Duties of presentation layer

1.Translation

At the sender it changes the information from its sender – dependent format into common format. At receiving, changes the common format into its receiver-dependent format

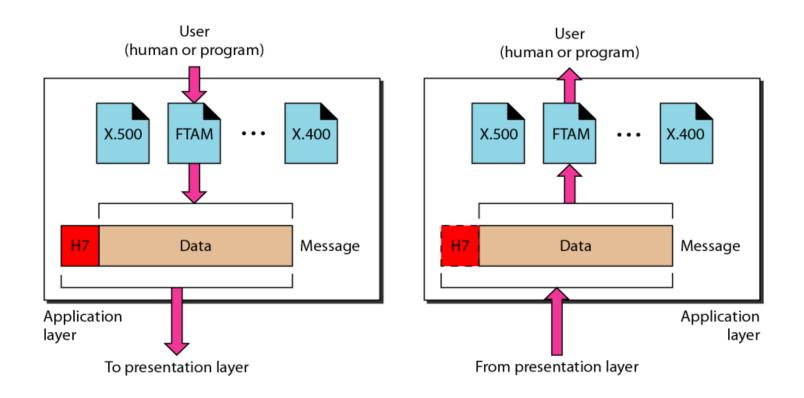
2.Encryption-Decryption

To ensure privacy and security

3.Compression

Data compression reduces the number of bits contained in the information. It is important in the transmission of multimedia such as audio or video

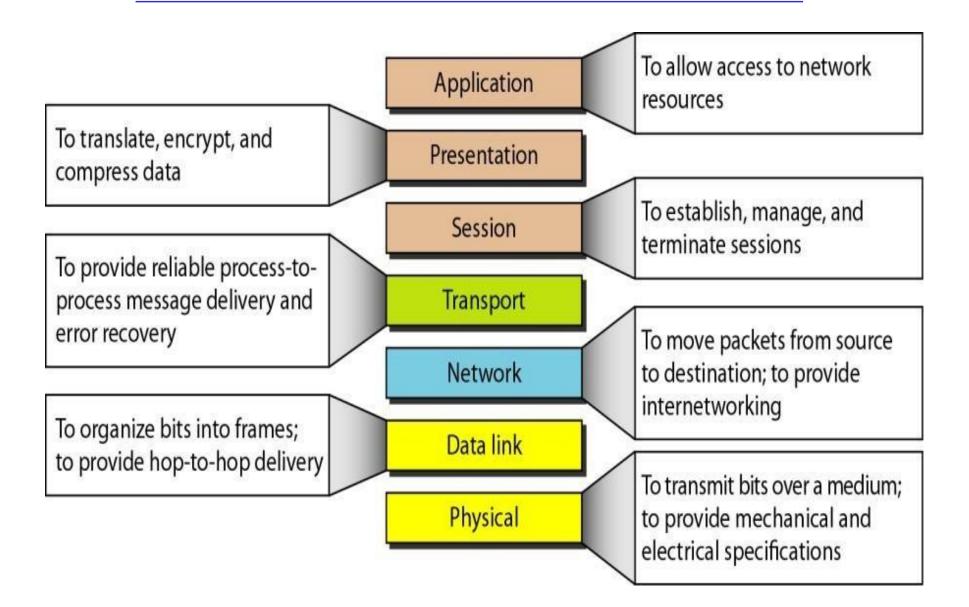
Application layer



The application layer is responsible for providing services to the user.

OSI Model			
	Layer	Data Unit	Function
TCP	Application	DATA	Access to Network Resources
User support layer	Presentation		Data representation: translate compress and encryption
	Session		Controls the dialogues , Establishes, manages and terminates the connections between the local and remote application
Link	Transport	Segment	End-to-end connections and reliability
Network support layer	Network	Datagram/Packet	Path determination (Routing) and logical Addressing
	Data link	Frame	Hop to Hop delivery and Physical addressing
	Physical	Bit	Media, signal and binary transmission,

Summary of layers



Thank you for listening

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