

25/06/25

Embedded - Phytex

Coop back - 127.0.0.1

TCP/UDP

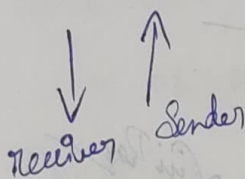
never change

Task 1 OS2 model

whatsapp - Example

ISO OS2 layer - 1984

OS2 - Open System Interconnect



Application layer  
Presentation layer  
Session layer

} Software layers

Reference

Only theoretical  
cannot see this  
in physical

Transport layer → Heart of OS2

~~Data Link~~ layer  
Network layer  
Data-link layer  
Physical layer

} Hardware layers

By going out we have a set of  
rules to follow as like this layers  
also

All people seen to need Data

Processing

Please Do Not Touch Sam's Pet

Algorithm

whatsapp

Sender side

Hi -> Send (Application layer)

↓  
Presentation layer (End-to-end encryption)

which only receiver can read the message

Compression

↓  
Session-layer eg - (call to person)

Device 1 to Device 2

Attend to End

↓  
Session ended.

Session ended out -

↓

Transport Layer. - TCP / UDP

XMP - It separates the messages to segments like sequences numbers also



Network layer

IP packet TCP segment

IP - Header Sender, Receiver all marked

IP Data by this layer

IPv6 Header

IPv4 Header

It transfers to Packet ↓



Data-link layer

Packets to frames then it stamps

our mac address and push to physical

layer



## Physical layer

messages send to receiver through electrical (signal) waves this is physical layer.

## Now Receiver side

↓  
Physical layer - receives electrical signals.

↓  
Data-link layer - checks all the frames and mac address corrects and extract.

↓  
Network layer

Source IP, Destination IP are correctly checked and packets are arranged after checking it pushes to Transport.

↓  
Transport layer

It checks sequence numbers properly if not arrange them properly





## Session Layer

It establishes maintains and terminates session across all channels.



## Presentation Layer

It translates encrypted messages to Human Readable format



## Application Layer

Can Read messages by opening the Application.

