

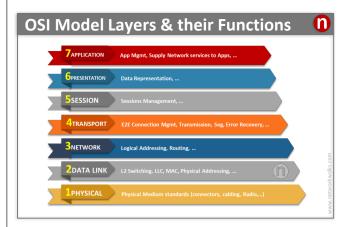
OSI Model – Cheat Sheet (Network Walks) – Part-1 v1.3



What is OSI Model ???

"OSI Model (Open Systems Interconnection) is a standardised Reference Framework for conceptualising data communications between networks"

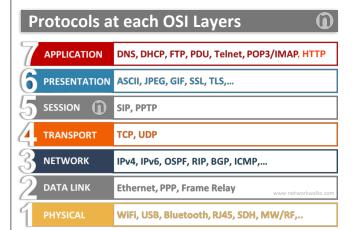
Official Standard: ISO7498 (1984)



Encapsulation: "Preparing & passing the data by any Upper layer to the layer below it, is called Encapsulation"

(Means, going from the application layer all the way down to the physical layer)

Decapsulation: "Decoding data while going Upwards from the physical layer till application layer is called decapsulation"



Transport Layer Ports				
Category	Range	Comments		
Well Known Ports	0 - 1023	Used by system processes e.g. FTP(21)		
Registered Ports	1024 - 49151	For specific services e.g. Port 8080		
Private Ports	49152 – 65535	For Private purposes		

Important Ports on Transport Layer				
Port Number	Protocol	Application		
20	TCP	FTP data		
21	TCP	FTP control		
22	TCP	SSH		
23	TCP	Telnet		
25	TCP	SMTP		
53	UDP, TCP	DNS		
67, 68	UDP	DHCP		
69	UDP	TFTP		
80	TCP	HTTP (WWW)		
110	TCP	POP3		
161	UDP	SNMP		
443	TCP	SSL		
16.384-32.767	UDP	RTP-based Voice (VoIP) and Video		







Your Feedback, Comments are always Welcomed: info@networkwalks.com

PDU's in OSI Model				
Every Layer has a different name for PDU's (as in this pic). They are called:				
Bits on Physical Layer,				
Frames on Data Link Layer,	APPLICATION POU	APPLICATION		
Packets on Network Layer,	PRESENTATION PDU L6 Data	PRESENTATION		
Segments on Transport Layer,	SESSION PDU L5 Data	SESSION E		
Data on all Application Layer.	TRANSPORT PDU Segments Packets	alks		
. I .	NETWORK POU	NETWORK NATA LINK		
	PHYSICAL PDU Bits	U.W		
		AM AM		

