

Sr No.	Layer	Protocols	Devices	Functions	Remarks
1.	Application	HTTP, FTP, DNS, SMTP, DHCP, SNMP	Gateway, Application switch, Firewall, Proxy Server	1. Network virtual Terminal 2. Mail services 3. Directory services	This layer interacts with user. (APDU)
2.	Presentation	SSL (Secure Socket Layer), MIME, TLS	Gateway, Application switch, Firewall, Proxy Server	1. Translation 2. Encryption and Decryption 3. Data Compression	PPDU
3.	Session	SIP, RTP	Gateway, Proxy Server, Firewall	1. Dialog Control 2. Synchronization	SPDU
4.	Transport	TCP, UDP	Gateway, Proxy Server, Content Filtering Firewall	1. Segmentation and reassembly 2. Synchronization of data 3. Flow, error Control 4. Process to Process transmission	Heart of OSI model. Data unit is: Segment
5.	Network	ARP, RARP, IPv4, IPv6 ICMP	Gateway, Router, Layer3 Switch, Proxy Server	1. Logical Addressing 2. Routing & Source to des. delivery	Data Unit is: Packet has IP
6.	Data Link	PPP, PPTP, L2TP, SLIP	Layer 2 Switch, Proxy Server, Firewall	1. Physical Addressing 2. Access Control 3. Error Control 4. Flow Control	It adds both header and tail. It has MAC add. Data unit: Frame
7.	Physical	IEE 802.5, IEE 802.3, IEE802.11	Hub, NIC, Modem	1. Carries Signal to higher layer 2. Encode bits to electric signal	Data Unit: Bit