

7 Layers Of The OSI Model (Starts with Application – Physical)

1. Physical
2. Data Link
3. Network
4. Transport
5. Session
6. Presentation
7. Application

Layer 1 – Physical

- Physical and Electric components
- PDU: Bits
 - o 1's & 0's
 - o Transmits raw data 'bits' are sent between physical devices.
- Not really about protocols.
 - o Network adaptors.
 - o Network Hubs.
 - o Electrical cables.
 - o Wireless tech.

Layer 2 – Data Link

- Switching layer
 - o Logical Link Control (LLC)
 - Error and flow control.
 - Media Access Control (MAC)
 - Physical Addressing
- PDU: Frames
 - o Organizes bits into frames
- Protocols
 - o ARP(Address Resolution Protocol), Spanning tree protocol, token ring, frame relay, IEEE 802. II, Ethernet.
- Hardware
 - o Bridges
 - o Switches (full duplex devices)

Layer 3 – Network

- The routing layer
 - o Path determination
 - o IP addresses
 - o IP fragments
- PDU: Packets