Layer	Description	Protocols / Function
7 - Application	Software that is requesting or receiving a network communication	Web browser, e-mail client, FTP client, etc.
6 - Presentation	Responsible for translating between software encoding and human readable format	DOC, JPG, GIF, XLS, WRI, etc.
5 - Session	Establishes a logical connection between software endpoints	FTP (21), SSH (22), HTTP (80), HTTPS (443), NTP (123)
4 - Transport	Segments traffic for reliable or best effort transmission between hosts.	TCP, UDP, SPX
3 - Network	Configures packets for intra-subnet and inter- subnet communications	IPv4, IPv6 , IPX
2 – Data Link MAC	Applies physical addresses to the data creating a switchable frame.	MAC addresses
1 - Physical	Converts the data into the format appropriate for the associated media.	Hubs, fiber optics, copper, electricity, RF

							Layer
					Da	ata	7 - Application
Segment					Da	ata	6 - Presentation
Packet			Layer 5 Header	Data		5 - Session	
Frame Layer 4 Header		Layer 5 Header	Data		4 - Transport		
		Layer 3 Header	Layer 4 Header	Layer 5 Header	Da	ata	3 - Network
Layer 2 Header	Layer 3 Header	Layer 4 Header	Layer 5 Header	Data		Layer 2 Checksum	2 – Data Link
Bits						1 - Physical	

Layer	Description	Protocols / Function
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Application	Responsible for translating between software encoding and human readable format	DOC, JPG, GIF, XLS, WRI, etc.
	Establishes a logical connection between software endpoints	FTP (21), SSH (22), HTTP (80), HTTPS (443), NTP (123)
Transport	Segments traffic for reliable or best effort transmission between hosts.	TCP, UDP, SPX
Internet	Configures packets for intra-subnet and inter- subnet communications	IPv4, IPv6 , IPX
Dharainal	Applies physical addresses to the data creating a switchable frame.	MAC addresses
Physical	Converts the data into the format appropriate for the associated media.	Hubs, fiber optics, copper, electricity, RF