

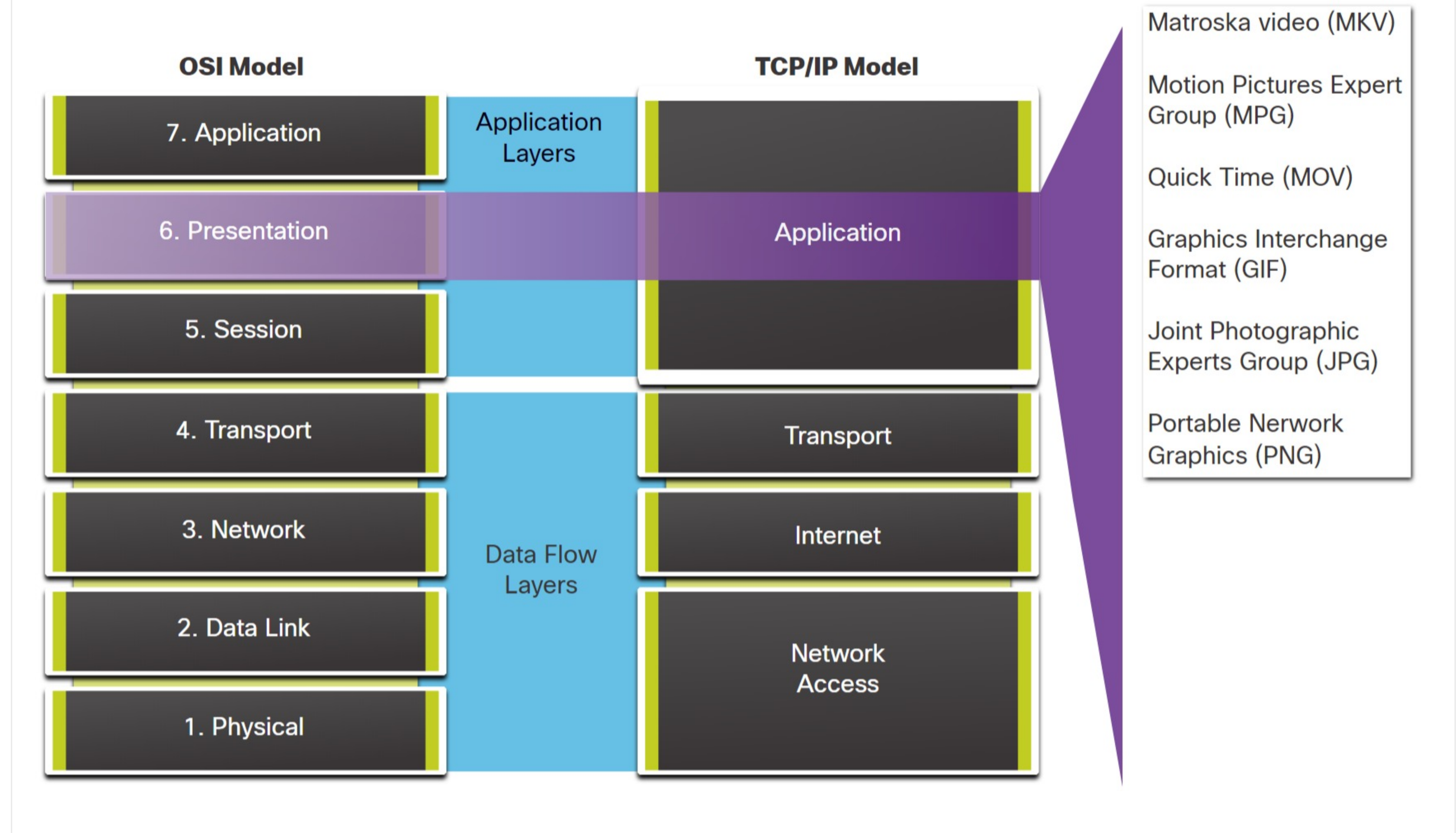


OSI Model		TCP/IP Model	
7. Application	Application Layers	Application	Domain Name System
6. Presentation			Hypertext Transfer Protocol
5. Session			Simple Mail Transfer Protocol
4. Transport	Data Flow Layers	Transport	Post Office Protocol
3. Network		Internet	Dynamic Host Configuration Protocol
2. Data Link		Network Access	File Transfer Protocol
1. Physical			Internet Message Access Protocol

There are many application layer protocols, and new protocols are always being developed. Some of the most widely known application layer protocols include Hypertext Transfer Protocol (HTTP), File Transfer Protocol (FTP), Trivial File Transfer Protocol (TFTP), Internet Message Access Protocol (IMAP), and Domain Name System (DNS) protocol.



As shown in the figure, the presentation layer formats data for the application layer, and it sets standards for file formats. Some well-known standards for video include Matroska Video (MKV), Motion Picture Experts Group (MPG), and QuickTime Video (MOV). Some well-known graphic image formats are Graphics Interchange Format (GIF), Joint Photographic Experts Group (JPG), and Portable Network Graphics (PNG) format.



As the name implies, functions at the session layer create and maintain dialogs between source and destination applications. The session layer handles the exchange of information to initiate dialogs, keep them active, and to restart sessions that are disrupted or idle for a long period of time.



 Click each application protocol type to learn more about each protocol.

- TCP 80, 8080
- A set of rules for exchanging text, graphic images, sound, video, and other multimedia files on the World Wide Web

- TCP, UDP 443
- The browser uses encryption to secure HTTP communications
- Authenticates the website to which you are connecting your browser



1. This layer of the OSI model is concerned with the protocols that exchange data between programs running on hosts.

- ☒ application
- ☐ transport
- ☐ network
- ☐ physical

2. MKV, GIF, and JPG standards are associated with which OSI layer?

- ☐ application
- ☒ presentation
- ☐ session
- ☐ transport

3. These three OSI layers define the same functions as the TCP/IP model application layer.

- ☒ application
- ☒ presentation
- ☒ session
- ☐ transport
- ☐ network
- ☐ data link

4. Which two are protocols that belong in the OSI application layer?

- ☐ PNG
- ☒ DNS
- ☒ SMTP
- ☐ QuickTime

5. This is a function of the OSI session layer.

- ☐ compress and decompress data
- ☐ provide an interface between applications
- ☐ format data for the application layer
- ☒ exchange of information to initiate dialog between peers

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