

# Open Systems Interconnection (OSI) Model

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The **Open Systems Interconnection (OSI) Model** is a conceptual and logical layout that defines network communication used by systems open to interconnection and communication with other systems.

The model is broken into seven subcomponents, or layers, each of which represents a conceptual collection of services provided to the layers above and below it. The OSI Model also defines a logical network and effectively describes computer packet transfer by using different layer protocols.

The OSI Model may also be referred to as the seven-layer OSI Model or the seven-layer model.

The Seven Layers are:

| Layer | Name                  | Examples                                                                                                                                        |
|-------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 7     | Application Layer     | Simple Network Management Protocol (SNMP), Hypertext Transfer Protocol (HTTP), File Transfer Protocol (FTP)                                     |
| 6     | Presentation Layer    | Encryption, American Standard for Information Interchange (ASCII), Portable Network Graphics (PNG), Musical Instrument Digital Interface (MIDI) |
| 5     | Data Link Layer (DLL) | Syn/Ack                                                                                                                                         |
| 4     | Network Layer         | Transmission Control Protocol (TCP), User Datagram Protocol (UDP), Port Numbers                                                                 |
| 3     | Session Layer         | Internet Protocol (IP), Router                                                                                                                  |
| 2     | Physical Layer        | Media Access Control (MAC), Switches                                                                                                            |
| 1     | Transport Layer       | Network Cabling, RJ45 connectors                                                                                                                |

Source: [Open Systems Interconnection \(OSI\) Model](#)

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