

Networking Essentials

THE OSI MODEL

Layer	Description	Device	Implementations and Protocols
Application (7)	Provides services directly to user applications. Identifies communication partners, identifies quality of service, considers user authentication and privacy, and determines if adequate resources are present.	Gateway	SMTP, HTTP, SFTP, FTP, SNMP, Telnet, AppleTalk
Presentation (6)	Performs data transformations and services including formatting, compression, and encryption services to provide a common interface for user applications.	Gateway and Routers	HTTP, FTP, Telnet, SMTP, SFTP, TQ
Session (5)	Establishes, manages and terminates connections between applications at each end. Allows 3 applications to communicate over a network by opening a session and synchronizing the involved computers.	Gateway	NetBIOS, TCP, UDP, SPX
Transport (4)	Provides transparent transfer of data between end systems by installing layers 1-3 from complexes of layers 1-3. Responsible for end-to-end error recovery and flow control and ensures complete data transfer.	Gateway	IP, SPX, NWLink, NetBEUI
Network (3)	Establishes, maintains, and terminates network connections. Handles traffic management including addressing, routing, switching, forwarding, logical paths and virtual circuits, error handling, congestion control and packet sequencing.	Router and Brouter	IP, SPX, NWLink, NetBEUI
Data Link (2)	Divided into two sub-layers: The Media Access Control (MAC) sub-layer controls how a networked computer gains access to the data and permission to transmit it. The Logical Link Control (LLC) sub-layer controls frame synchronization, flow control and error checking.	Switch, Bridge and Router	Ethernet, PPP, HDLC
Physical (1)	Controls transmission of the bit stream data over the physical medium. Standards for this layer address transmission at the electrical and mechanical level including signal voltage, wiring, voltage duration, etc.	Modem and Repeater	Ethernet, Token Ring, FDDI

CABLE TYPES

Type: 10Base5 (Coaxial)

Network: 10Base5 (10B 5)
 Standard: IEEE 802.3
 Speed: 10 Mbps
 Connector: BNC
 Max. Length: 500 meters (1640 ft.)

Type: 10Base2 (Coaxial)

Network: 10Base2 (10B 2)
 Standard: IEEE 802.3
 Speed: 10 Mbps
 Connector: BNC
 Max. Length: 185 meters (607 ft.)



The 5 to 18 ft. range states that a 10Base5 network can have 1 cable segment connected with a maximum of only 3 of the segments can be connected by computers with a maximum of 28 computers per segment.

Thicknet cables are 5/8 inches thick and have a 30 meter impedance. Thinnet cables are 1/2 inch thick and have a 120 ohm impedance.

Thicknet is often used as a backbone. A terminator with a resistor for impedance matching is at each end of the cable. Four thinnet cables (4 10Base2) connect to a single thicknet cable.

Type: 10BaseT (Twisted Pair)

Network: 10BaseT (10B T)
 Standard: IEEE 802.3
 Speed: 10 Mbps
 Connector: RJ-45
 Max. Length: 100 meters (328 ft.)

Type: 100BaseT (Twisted Pair)

Network: 100BaseT (100B T)
 Standard: IEEE 802.3
 Speed: 100 Mbps
 Connector: RJ-45
 Max. Length: 100 meters (328 ft.)

Twisted-Pair Cabling (10 Base-T)



Standard Twisted Pair (STP) offers more protection (shielded Twisted Pair (STP) is that it has a foil jacket that helps provide shielding. Shielding is interference from an adjacent wire.

Plastic jacket cabling is required when routing cable in plenum spaces. The plenum is the space between building floors that is used for air circulation in heating and air conditioning systems. Plastic jackets are fire resistant and prevent the release of toxic fumes in the event of a fire. Plenum grade cable is resistant to fire and does not emit poisonous gases when burned.

Type: 10BaseFL (Fiber Optic)

Network: 10BaseFL (10B FL)
 Standard: IEEE 802.3
 Speed: 10 Mbps
 Connector: ST or SC
 Max. Length: 2 kilometers (1.2 miles)

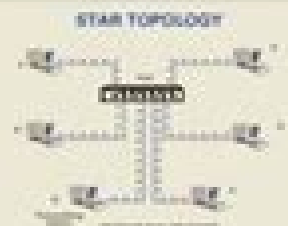
Fiber-Optic Cable



Fiber-optic cabling has built-in security. Unlike other cable systems, the physical nature of optical data makes it impossible to connect, detect the signal being transmitted within the cable. The only way to detect fiber signals is by accessing the optical fiber itself which is easily detectable by security professionals.

NETWORK TOPOLOGIES

The physical topology of a network refers to the physical configuration of cables, computers, and network devices. Logical topology is the method used to pass information between network devices.



Computer Networking Cheat Sheet

Andy Rathbone



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Table of Contents Computer Networking Cheat Sheet

1. Understanding the eBook Computer Networking Cheat Sheet
 - The Rise of Digital Reading Computer Networking Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Networking Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computer Networking Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Networking Cheat Sheet
 - Personalized Recommendations
 - Computer Networking Cheat Sheet User Reviews and Ratings
 - Computer Networking Cheat Sheet and Bestseller Lists
5. Accessing Computer Networking Cheat Sheet Free and Paid eBooks
 - Computer Networking Cheat Sheet Public Domain eBooks
 - Computer Networking Cheat Sheet eBook Subscription Services
 - Computer Networking Cheat Sheet Budget-Friendly Options
6. Navigating Computer Networking Cheat Sheet eBook Formats

- ePub, PDF, MOBI, and More
- Computer Networking Cheat Sheet Compatibility with Devices
- Computer Networking Cheat Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computer Networking Cheat Sheet
 - Highlighting and Note-Taking Computer Networking Cheat Sheet
 - Interactive Elements Computer Networking Cheat Sheet
- 8. Staying Engaged with Computer Networking Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Networking Cheat Sheet
- 9. Balancing eBooks and Physical Books Computer Networking Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Networking Cheat Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Computer Networking Cheat Sheet
 - Setting Reading Goals Computer Networking Cheat Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Computer Networking Cheat Sheet
 - Fact-Checking eBook Content of Computer Networking Cheat Sheet
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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