

Introduction

Computer Network

Internet

Distributed System

Middleware

World Wide Web

Resource Sharing

VPN (Virtual Private Network)

Servers

Clients

Client-Server Model

Communication Medium

Email (Electronic Mail)

IP Telephony

Voice over IP (VoIP)

Desktop Sharing

E-commerce (Electronic Commerce)

Connectivity

Peer-to-Peer Communication

instant messaging

Twitter

Social Network

Facebook

Wiki

Wikipedia

IPTV (IP Television)

Ubiquitous Computing

Power-line Network

RFID (Radio Frequency Identification)

Hotspot

Fixed Wireless Network
Mobile Wireless Network
Text Messaging (Texting)
Short Message Service
GPS (Global Positioning System)
M-Commerce (Mobile-Commerce)
NFC (Near Field Communication)
Sensor Network
Wearable Computer
Network Neutrality
DMCA takedown notices
Digital Millennium Copyright Act
Profiling
Cookies
Gmail
Botnet
Phishing
CAPTCHAs
Broadcast Links
Point-to-Point Links
Unicasting
Multicasting
Interplanetary Internet
PANs (Personal Area networks)
Bluetooth
LAN (Local Area Network)
Enterprise Network
AP (Access Point)
Wireless router (Base Station)
IEEE 802.11 (WiFi)
Ethernet

Switched Ethernet
Switch
Port
Virtual LAN (VLAN)
Classic Ethernet
MAN (Metropolitan Area Network)
Cable Headend
WiMAX
WAN (Wide Area Network)
Host
Communication Subnet (Subnet)
Transmission Lines
Switching Elements
internetworks
Network Service Provider
ISP (Internet Service Provider)
ISP Network
Gateway
Network Layers (Network Levels)
Protocol
Peers
Physical Medium
Interface
Network Architecture
Protocol Stack
Header
Error Detection
Error Correction
Routing
Protocol Layer
Addressing (Naming)

Internetworking
Scalable
Statistical Multiplexing
Flow Control
Congestion
Real-Time
Quality of Service
Confidentiality
Authentication
Integrity
Connection-oriented
Negotiation
Circuit
Connectionless
Packet
Store-and-Forward Switching
Cut-Through Switching

datagram service
acknowledged datagram service
Request-Reply service
primitives (operations)
OSI (Open Systems Interconnection)
OSI Model
Physical Layer
Data Link Layer
Data Frames
Acknowledgement Frame
Network Layer
Transport Layer
Sessions
Dialog Control

Token Management

Synchronization

Presentation Layer

Application Layer

HTTP (HyperText Transfer Protocol)

TCP/IP Reference Model

Link Layer

Internet Layer

IP (Internet Protocol)

ICMP (Internet Control Message Protocol)

Transport Layer

TCP (Transmission Control Protocol)

UDP (User Datagram Protocol)

ARPA (Advanced Research Projects Agency)

ARPANET

IMPs (Interface Message Processors)

Sockets

DNS (Domain Name System)

Computer Science Network (CSNET)

Fuzzball

NSFNET

ANS (Advanced Networks and Services)

ANSNET

NAP (Network Access Point)

DSL (Digital Subscriber Lines)

DSL Modem

DSLAM (Digital Subscriber Line Access Multiplexer)

Cable Modem

CMTS (Cable Modem Termination System)

Broadband

FTTH (Fiber to the Home)

POP (Point of Service)
IXPs (Internet eXchange Points)
Transit
Tier 1 ISP
Data Center
Server Farm
Colocation (hosting)
AMPS (Advanced Mobile Phone System)
GSM (Global System for Mobile communications)
UMTS (Universal Mobile Telecommunications System)
WCDMA (Wideband Code Division Multiple Access)
Cellular Network
Frequency Reuse
Air Interface
Cellular Base Station
Code Division Multiple Access (CDMA)
Radio Access Network
RNC (Radion Network Controller)
Node B
Core Network
MSC (Mobile Switching Center)
GMSC (Gateway Mobile Switching Center)
PSTN (Public Switched Telephone Network)
GPRS (General Packet Radio Service)
SGSN (Servicing GPRS Support Node)
GGSN (Gateway GPRS Support Node)
Handover (Handoff)
Soft Handover
Hard Handover
HSS (Home Subscriber Server)
SIM Card (Subscriber Identity Module)

LTE (Long Term Evolution)

ISM (Industrial, Scientific, and Medical)

AP (Access Point)

Ad Hoc Network

Multipath Fading

Path Diversity

OFDM (Orthogonal Frequency Division Multiplexing)

CSMA (Carrier Sense Multiple Access)

ALOHA

WEP (Wired Equivalent Privacy)

WiFi Protected Access (formally WAP, replaced by WAP2)

Passive RFID

Active RFID

UHF RFID (Ultra-High Frequency RFID)

HF RFID (High Frequency RFID)

LF RFID (Low Frequency RFID)

Multihop Network

WiFi Alliance

De facto Standards

De jure Standards

3GPP (Third Generation Partnership Project)

PTT (Post, Telegraph & Telephone administration)

ITU (International Telecommunication Union)

ITU-T

CCITT

ITU-R

CD (Committee Draft)

DIS (Draft International Standard)

IS (International Standard)

NIST (National Institute of Standards and Technology)

IEEE (Institute of Electrical and Electronics Engineers)

IAB (Internet Activities Board)

Internet Architecture Board

RFCs (Request For Comments)

IRTF (Internet Research Task Force)

IEFT (Internet Engineering Task Force)

Internet Society

Proposed Standard

Draft Standard

Internet Standard

World Wide Web Consortium (W3C)