

CS 176A: Acronym Dictionary

Chapter 5: Define each of these acronyms and indicate what phrase the acronym represents.

- MAC - Media Access Control
 - A protocol that assigns devices a unique identifier so that they can be organized while connecting to a network.
- NIC - Network Interface Card
 - Hardware component that enables a device to communicate with computer networks
- CRC - Cyclic Redundancy Check
 - An error detection check uses in data transmission to ensure that data sent/received is accurate
- CDMA - Code Division Multiple Access
 - A technique that allows multiple users to share a frequency band by assigning each user a unique code
- ALOHA - Additive Link On-Line Hawaii Area
 - A random access protocol that allows devices to send data packets over a shared channel using collision detection to minimize data loss during transmission
- CSMA - Carrier Sense Multiple Access
 - A protocol where devices listen to the communication medium before they transmit so that collisions can be avoided
- CSMA/CD - CSMA w/ Collision Detection
 - CSMA method where performance is improved by terminating transmission that moment a collision is detected
- ARP - Address Resolution Protocol
 - A protocol used to map IP Addresses to MAC addresses on a network
- VLAN - Virtual Local Area Network
 - A method of segmenting a physical network into multiple digital logical networks so that security and efficiency are improved