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Network Terminology and AppleTalk Limitations (5/94)

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NETWORKING TERMINOLOGY

Router: Connects 2 or more networks using the network layer.
Gateway: Manages communications between different protocol families.
Bridge: Connects 2 or more networks using the data link layer.
Hop: Used to describe a jump through a router to the next network.
AppleTalk: The network protocol for Apple Macintosh Systems.
LocalTalk: AppleTalk protocol on twisted pair cabling (ie, PhoneNet).
EtherTalk: AppleTalk protocol on EtherNet cable with interface card.
TokenTalk: AppleTalk protocol on TokenRing cabling with interface card.

AppleTalk Information:

- Phase I supports up to 254 nodes, by number.
- Phase II supports (theoretically) 16 million nodes by range or number.
- LocalTalk should only address up to 32 nodes.
- LocalTalk Network is identified by a single network number.
- Extended AppleTalk networks are identified by network range.
- Extended AppleTalk networks support zone lists.

OSI Model (applies to TCP/IP and other networking protocols):

Layer 7 - Application
Layer 6 - Presentation
Layer 5 - Session
Layer 4 - Transport
Layer 3 - Network
Layer 2 - Data link
Layer 1 - Physical

Topology:

Bus: All nodes connected in one line (daisy chain).
Star: All nodes connected to a central hub.
Ring: All nodes connected in a closed loop.

Support Information Services

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