

Curriculum Development
Centers Program

Awardee of The Office of the National Coordinator for
Health Information Technology

Component 9 – Networking and Health Information Exchange

Unit 2-3 Network Media and Hardware Communication Devices


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Connectivity Devices

- Hubs
- Switches
- Routers
- Wireless Access Points (WAP)
- Modems

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Hubs



- One collision domain
- Shared bandwidth
- Security issues

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Switches



- One collision domain per port
- Dedicated bandwidth
- More secure

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4

Higher-Layer Switches

- Layer 3 switch
- Layer 4 switch

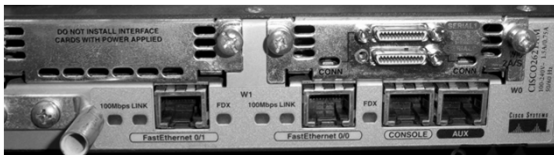
Also called routing switches or application switches

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5

Routers



- Move packets from one network to another
- Use IP addresses

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6

Routing Protocols

- Two types:
 - Static routing
 - Dynamic routing
- Hop
 - Term used to describe the movement of data from one router to another

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7

Wireless Access Point (WAP)



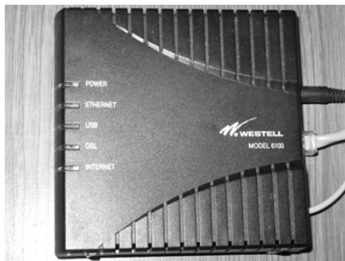
- 802.11x standards
- SSID
- Security Issues

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8

DSL Modem



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9

Cable Modem



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10
