Health Management Information Systems

Unit 2 Hardware and Software Supporting Health Information Systems

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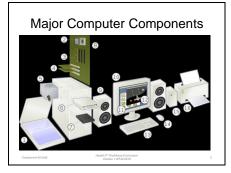
Objectives

- Describe the major hardware components of a computer and major types of software used in computer systems
- Describe major types of network configurations

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	Computer Hardware	
	Physical parts Internal hardware Examples: motherboards, RAM	
	External hardware Examples: monitor, keyboard	
	Definition from the Tech Terms Computer Dictionary (www.techterms.com)	
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	Major Hardware Components	
	Examples of hardware components – CPU	
	RAMVideo card	
	Sound cardMotherboard	
	– Power supply– Hard drive	
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Slide 0	Major Hardware Components	
	Input devices Output devices - Keyboard - Monitor	
	- Light pen - Speakers	
	- Mouse - Printer - Microphone - Webcam	

Slide 7	Major Hardware Components Data ports Serial port Parallel port Universal serial bus	
Oli Iv o		
Slide 8	Major Hardware Components • Removable data storage – CD/DVD drive – USB flash drive – Memory card	
Slide 9	Computer Software Components Computer software Collection of computer programs and related data Provides the instructions that tell a computer what to do	
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Major Types of Software

- · System software
 - Example: Utility software
 - Example: Backup and recovery software
- · Application software
- Programming software

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System Software

- Operating systems
- Device drivers
- · Servers
- Utilities
- · Windowing systems

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Application Software

- Helps the user perform a task
 - Scheduling
 - Accounting
 - Word processing

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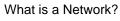
Programming Software

- Compilers
- Interpreters
- Debuggers
- Linkers
- · Text editors

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Major Types of Network Configurations

- Local area
- Wide area
- Virtual
- Health Center Controlled
- Storage area

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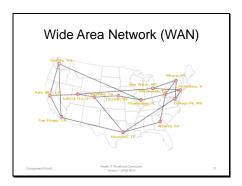
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Local Area Network (LAN)

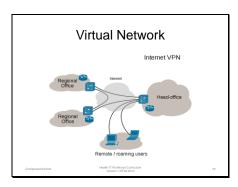
- Network of limited area
 - Examples
 - Home
 - Office
 School
 - Airport

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Health Center Controlled Network (HCCN)

- Consortia of Section 330 funded health centers
- Exchange information and establish collaborative mechanisms

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Storage Area Network (SAN)

- Network of storage disks
- Allows data transfers between computers and disks at high peripheral channel speeds

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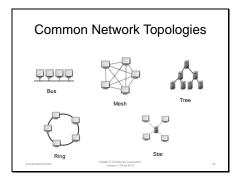
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What is a Topology?

- The layout or structure of a network
- Physical
 - Physical design
- Logical
 - How data transfers in a network

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Summary

- Major hardware and software components used in computer systems
- Types of network configurations

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