

Chapter 5 Data Link Layer

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Chapter 5 Data Link Layer

Chapter 5: Data Link Layer Silvia Giordano ICA, EPFL The data-link layer is responsible for transferring a datagram across an individual link. A link is the communication channels that connect two adjacent hosts or routers. Examples of link-layer protocols include Ethernet, token ring, FDDI, and PPP.

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Computer Networking 2018-Fall Computer Networks Networking Laboratory Networking Laboratory 1010/202/176 5.2 Data Link Control (DLC) Framing The data-link layer needs to pack bits

Chapter 5 Data-Link Layer: Wired Networks

"link" data-link layer has responsibility of transferring datagram from one node to adjacent node over a link 5: Data Link Layer 5-4 Link layer: context Datagram transferred by different link protocols over different links: e.g., Ethernet on first link, frame relay on intermediate links, 802.11 on last link Each link protocol provides different

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Chapter 5: Data Link Layer Abdullah Konak School of Information Sciences and Technology Penn State Berks A. Konak IST 220/Ch5: Data link layer 2 Learning Objectives Understand the concept of the hop-to-hop delivery compared to host-to-host delivery and application-to-application delivery. Understand the concept of access method and define different

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5: DataLink Layer 5-3 Link Layer: Introduction Some terminology: hosts and routers are nodes communication channels that connect adjacent nodes along communication path are links wired links wireless links LANs layer-2 packet is a frame, encapsulates datagram "link" data-link layer has responsibility of transferring datagram from one node

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Comp 361, Spring 2005 5: DataLink Layer 5 Link Layer: setting the context Some terminology: hosts and routers are nodes (bridges and switches too) communication channels that connect adjacent nodes along communication path are links wired links wireless links LANs 2-PDU is a frame, encapsulates datagram "link"

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Comp 361, Spring 2004 5: DataLink Layer 5 Link Layer: setting the context Some terminology: hosts and routers are nodes (bridges and switches too) communication channels that connect adjacent nodes along communication path are links wired links wireless links LANs 2-PDU is a frame, encapsulates datagram "link"

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Chapter 5: Link Layer and Local Area Networks In this chapter we

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examine the data link layer--its services, the principles underlying its operation, and a number of important data link layer protocols. We learn that the basic service of the data link layer is to move a network-layer datagram from one node (host or router) to an adjacent node.

5.1: The Data Link Layer: Introduction, Services

Chapter 5: Data Link Layer Answers to End-of-Chapter Questions

1. What does the data link layer do? 2. What is media access control and why is it important? 3. Under what conditions is media access control unimportant? 4. Compare and contrast roll call polling, hub polling (or token passing), and contention. 5. Which is better, hub polling or contention?

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Link Layer: context Data Link Layer (SSL) 5-3 □A link connects two adjacent IP nodes (layer 3) along a path □IP datagram transferred by different link protocols over different links which may provide different services

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5: DataLink Layer 5a4 Link Layer: Introduction Some terminology: hosts and routers are nodes (bridges and switches too) communication channels that connect adjacent nodes along communication path are links wired links wireless links LANs 2-PDU is a frame, encapsulates datagram “link” data-link layer has responsibility of

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□ Data link layer must use the service provided to it by the physical layer. □ Physical layer does is accept a raw bit stream and attempt to deliver it to the destination. □ This bit stream is not guaranteed to be error free. □ The number of bits received

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may be less than, equal to, or more than the number of bits transmitted, and they may have different values. □ It is the job of data link layer to detect and, if necessary, correct errors. □ How to do it?

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5: DataLink Layer 5-4 Link Layer Services Framing, link access: encapsulate datagram into frame, adding header, trailer channel access if shared medium “MAC” addresses used in frame headers to identify source, dest • different from IP address! Reliable delivery between adjacent nodes we learned how to do this already (chapter 3)!

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5: DataLink Layer. 5-Link Layer: Introduction. Some terminology: hosts and routers are . nodes. communication channels that connect adjacent nodes along communication path are . links. wired links. wireless links. LANs. layer-2 packet is a . frame, encapsulates datagram. data-link layer. has responsibility of . transferring datagram from one ...

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