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**Video Case 03**

**Chapter 3: The Data Link Layer**

**Watch the video at:** <https://youtu.be/AfIb5XlukiI>

**Summary:** This video talks about the role of the Data Link Layer in the network and its sub layers.

**Video case Questions:**

1. What is the use of Data Link Layer?
   1. The Data Link Layer is used to prepare Network Layer packets for transmission and to control layer to the physical media.
2. What are the 2 sub layers of data link layer and brief their purpose?
3. What information does the frame header and trailer contain?
   1. The frame header contains the control information for the specific logical topology and media used. It consists of the Start Frame, the Address, and the Type/Length of the Data, and more if necessary.
   2. The trailer is use to determine if the frame arrived with any errors. The error detection is accomplished by having the source host calculate a logical or mathematical sequence based on the content of the frame and placing that sequence in the Frame Check Sequence field. Once transmission is complete the layers compare the FCS to determine if the data has changed at all during transmission. It contains a FCS to check the sequence and an optional Stop Frame.