Link Layer Services

1. It is responsible for moving data (frames) from one node to another node.
2. Services:
   1. Framing
      1. The data link layer needs to pack bits into frames, so that each frame is distinguishable from another.
      2. Our postal system practices a type of framing.
      3. The simple act of inserting a letter into an envelope separates one piece of information from another; the envelope serves as the delimiter.
   2. Physical Addressing
      1. A frame is the encapsulation of the header and trailer information with the packet.
      2. In the header, the source and the destination MAC address are dealt.
   3. Flow control
      1. Flow control is one of the duties of the data link control sublayer.
      2. The flow control in the data link layer is end to end flow control.
      3. Speed matching mechanism.
      4. Flow control coordinates the amount of data that can be sent before receiving an acknowledgment.
   4. Access control
      1. Media access control
   5. Error control
      1. Error detection
      2. Error correction