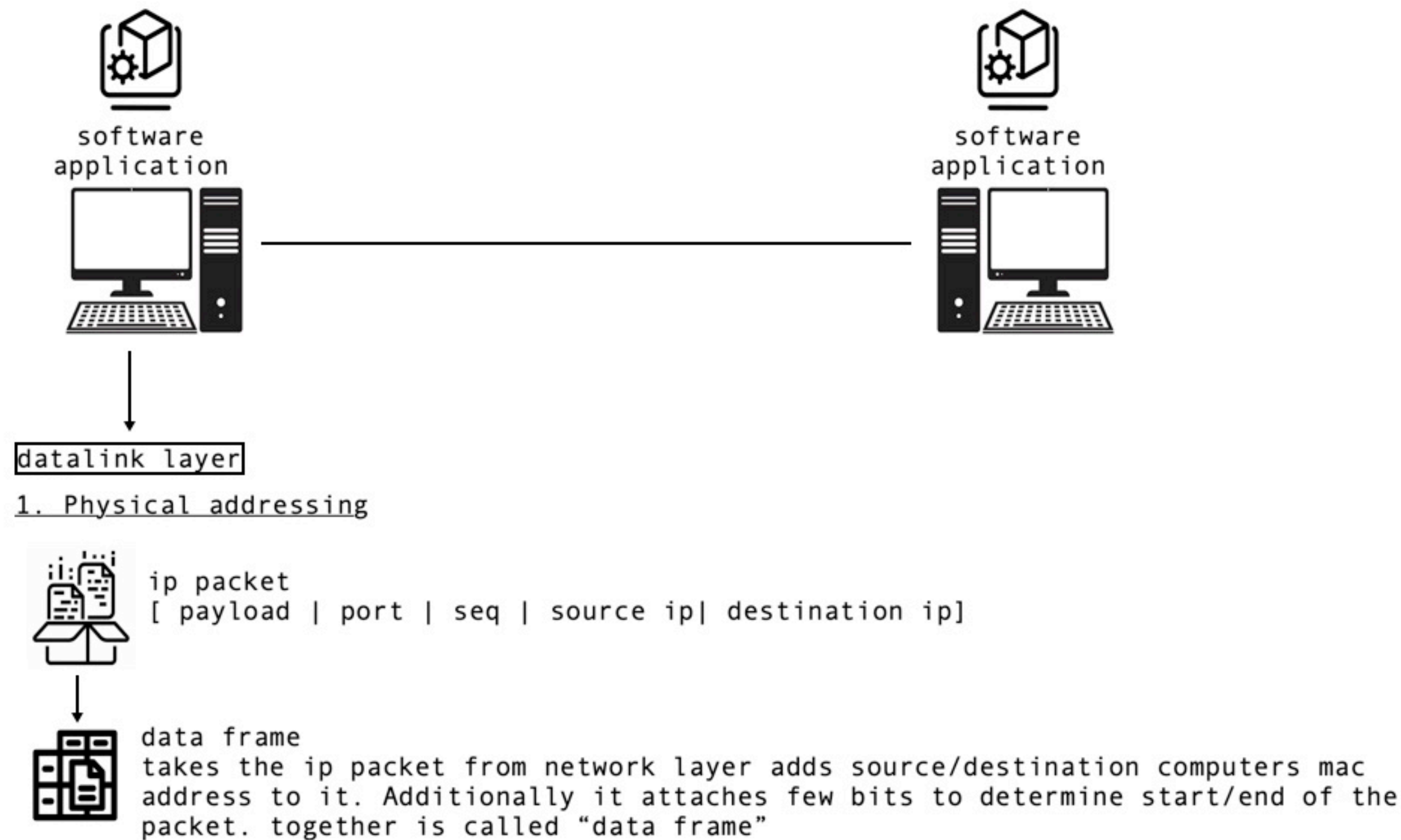


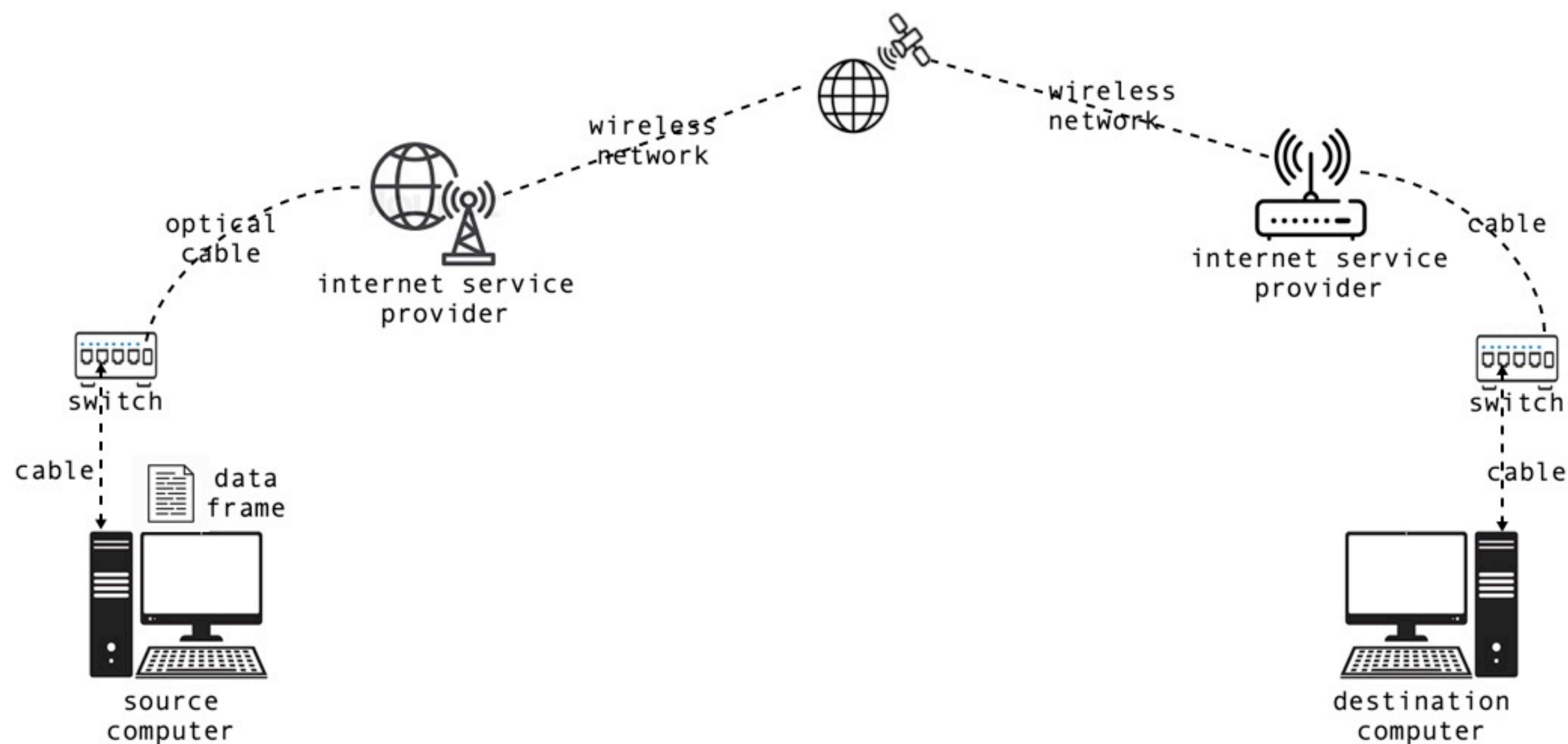
## datalink layer



This process of building the data frame is called "Physical Address"

### 2. Media access control

The datalink layer is responsible for encoding/decoding the data into signal format based on transmittable medium so that it can be transmitted. This is called media access control



### 3. Error Control

There are #2 types of error control mechanisms are applied by the datalink layer

#### 1. Collision detection

Datalink layer keeps an eye on the network channel to determine the channel is busy or available for transmitting the data, to avoid collision while sending the data over the network channel

#### 2. Fault detection

While transferring the data over the physical channel sometimes due to hardware failures, the frames might be received in corrupted state. The datalink layer adds head/tail bits to the data frame to identify the corrupted frameworks and request for re-transmission.