

Stop and Wait protocol:-

- This is a noiseless channel protocol.
- Stop & wait protocol is a Flow control protocol
- It provides unidirectional data transmission with flow control facilities but without error control facilities.
- In this the Receiving & Transmitting of data will not be at the same time.
- The process is once one frame is sent the sender will wait for acknowledgement before transmitting the next one.

Primitives:-

Sender side:-

Rule-1: Send one data packet at a time

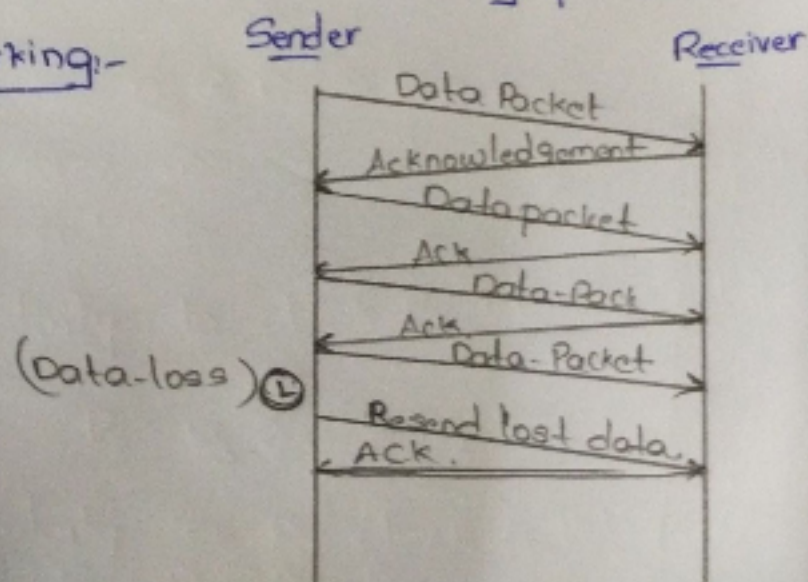
Rule-2: Send next one only after receiving the Ack for the previous frame

Receiver side:-

Rule 1: Receive & consume data packet

Rule 2: After consuming packet Ack needs to be sent (Flow Control).

Working:-



Advantages:-

- Simplicity

Disadvantages:-

- Time consuming for larger data packets.
- Sender waits long time for ack. to be received.
- Receiver waits long time for data to be received.
- Delay in the ack ~~as~~ might be wrongly considered as ack for some other packet.