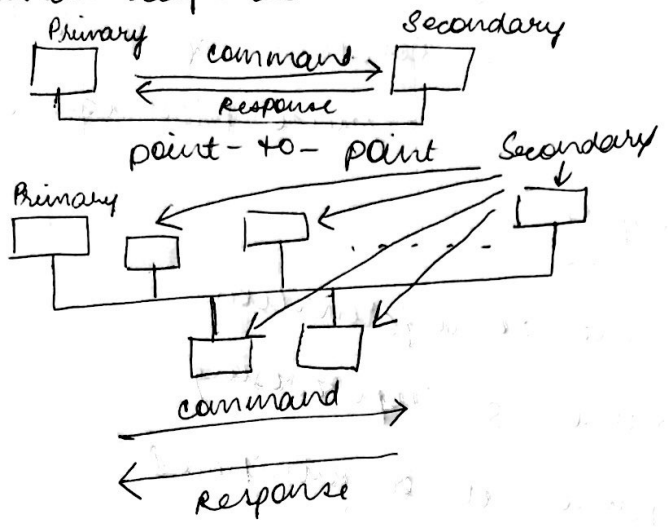


High Level Data Link Control (HDLC)

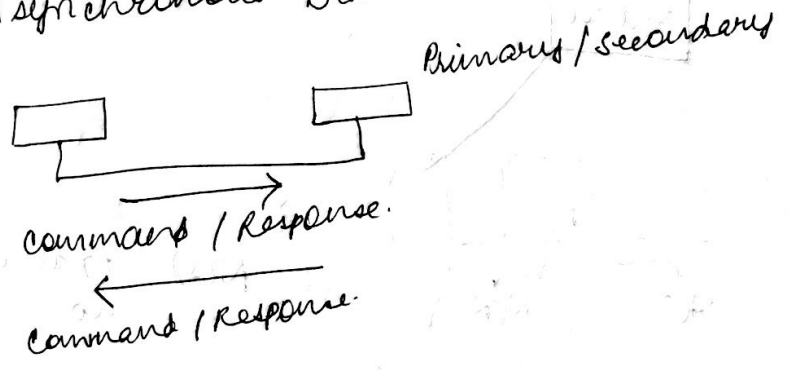
- Proprietary Protocol
- Bit-oriented Protocol

configuration and Transfer Modes

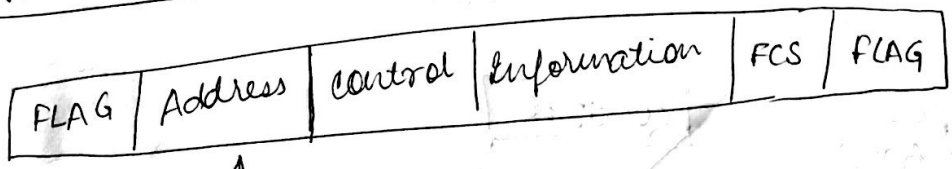
① Normal Response Mode (NRM)



② Asynchronous Balanced Mode (ABM)

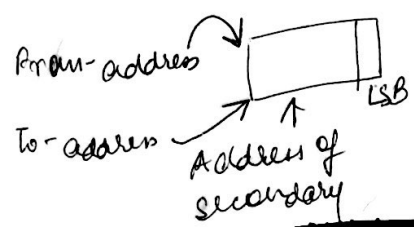


Frame Format



01111110

↑
1 byte or multiple bytes



From-address - address coming from secondary

To - " - address from pri. to sec.

Only 1 pri. station

Q. If address bit is of multiple bytes, then $LSB = 0$

If address bit is 1 byte long, then $LSB = 1$

FCS - Frame Check Sequence - contains 2/4 byte CRC

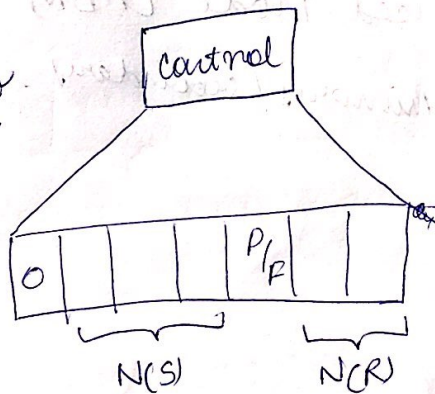
Information Field - 2 types of information

- consist of user data
- System Management Information

Frame Types

- i-Frame : i-information
- s-Frame : s-supervising
- u-Frame : u-unnumbered

(i) For i-frame



N(S) - Frame sequence no.

$P/F = 1$; $P \rightarrow \text{Poll}$
 $F \rightarrow \text{Final}$

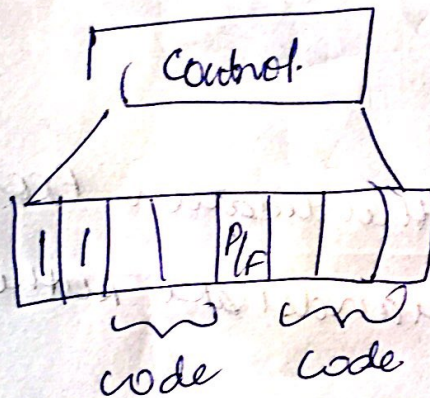
(ii) For s-frame



Categories of S-Frame:

- 1) RR(00) - Receive Ready
- 2) RNR(10) - Receive Not Ready
- 3) REJ(01) - ~~Reject~~ Reject
- 4) SREJ(11) - Selective Reject

(ii) U-Frames



<u>code</u>	<u>Command</u>	
00 001	SNRM	(set Normal Response mode)
011 100	SABM	(set Asynchronous Balance Mode)
10 010	DISC	(Disconnect - current connection)
11 001	RSET	(Reset - destroy " " and reestablish it)