

THIS DIAGRAM IS ABLE TO DEAL WITH CASE 1,2,3 and the intermediate case between 3 and 4 (a small full section is present, but not another begin)

There is two packets
 Packet_full : contains the good packet or nothing
 Packet_partial : contains the unfinished packet

The packet contains
 * The buffer
 * it's len
 * It's status

The global structure contains the PID and the CC

There is three possible status
 PACKET_EMPTY
 PACKET_STARTED (packet already contains data)
 PACKET_VALID (packet is full and CRC32 is valid)

