New data

START_TS or START_SECTION

Start flag?

NO_START

number full > 0?

DATA left is stuffing bytes?

Exit YES

Copy the first packet of buffer full to data_full

Warn if partial_status != empty

Set PID, CC, expected len

Copy data len = min(expected,left)

Yes

If the partial packet is full and CRC32 valid
Append it's data to the full buffers, increase the full buffer number
If the full buffer number is equal to one, copy the data to data_full

Data_left > 0 NO Exit

Yes

Call recursively append_data with data_len = data_left
ie the data after the current section and start_flag = START_SECTION