

Duane: “A ‘REAL’ compromise”

- **R**ealizable
- **E**nvelope
- **A**ugmented
- **LLID**

Glen: “A ‘maybe’ approach”

Ideas for a future joint proposal from Duane & Glen
(who could not agree on the presentation name)

Idea #1

100G EPON

- ❑ GLID to ULID mapping in the OUTPUT process can be avoided.
 - For full frames, preamble is replaced with envelope header with specific ULID
 - For “headless fragments”, new envelope header is inserted.
 - Envelope ID is always PLID or ULID that directly identifies the MAC entity.
- ❑ May need to restrict envelopes to contain a single frame
 - Revisit the ideas from “MPRS with preamble replacement” (remein_3ca_2a_0117.pdf)
 - Need to make sure envelope has enough space for DPoE encryption data

Idea #2

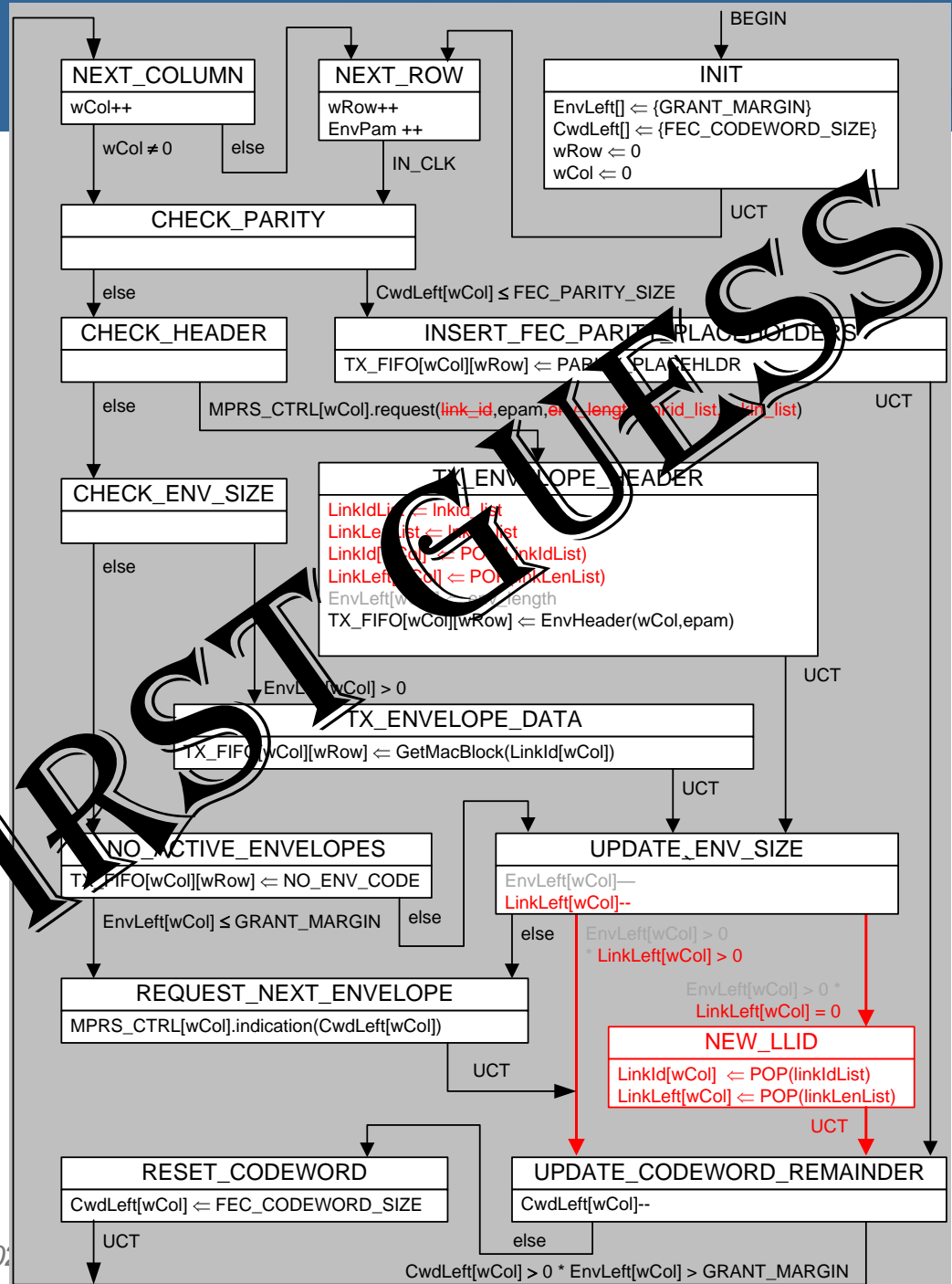
100G EPON

- ❑ CI 46.3.1.4 specifies IDC as 0 – 3
 - Accommodates placement of /S/ in Lane 0 of the XGMII
- ❑ Change IDC to be from 0 to 7
 - /S/ can be guaranteed to be in Lane 0 of 1st MII transfer of EQ (i.e., always at the beginning of EQ)
 - Change GetMacBlock so that Preamble is always returned in single EQ
 - Simplifies Output SD
- ❑ Has not been done in any 802.3 project yet. We will do additional study.

Expected advantages

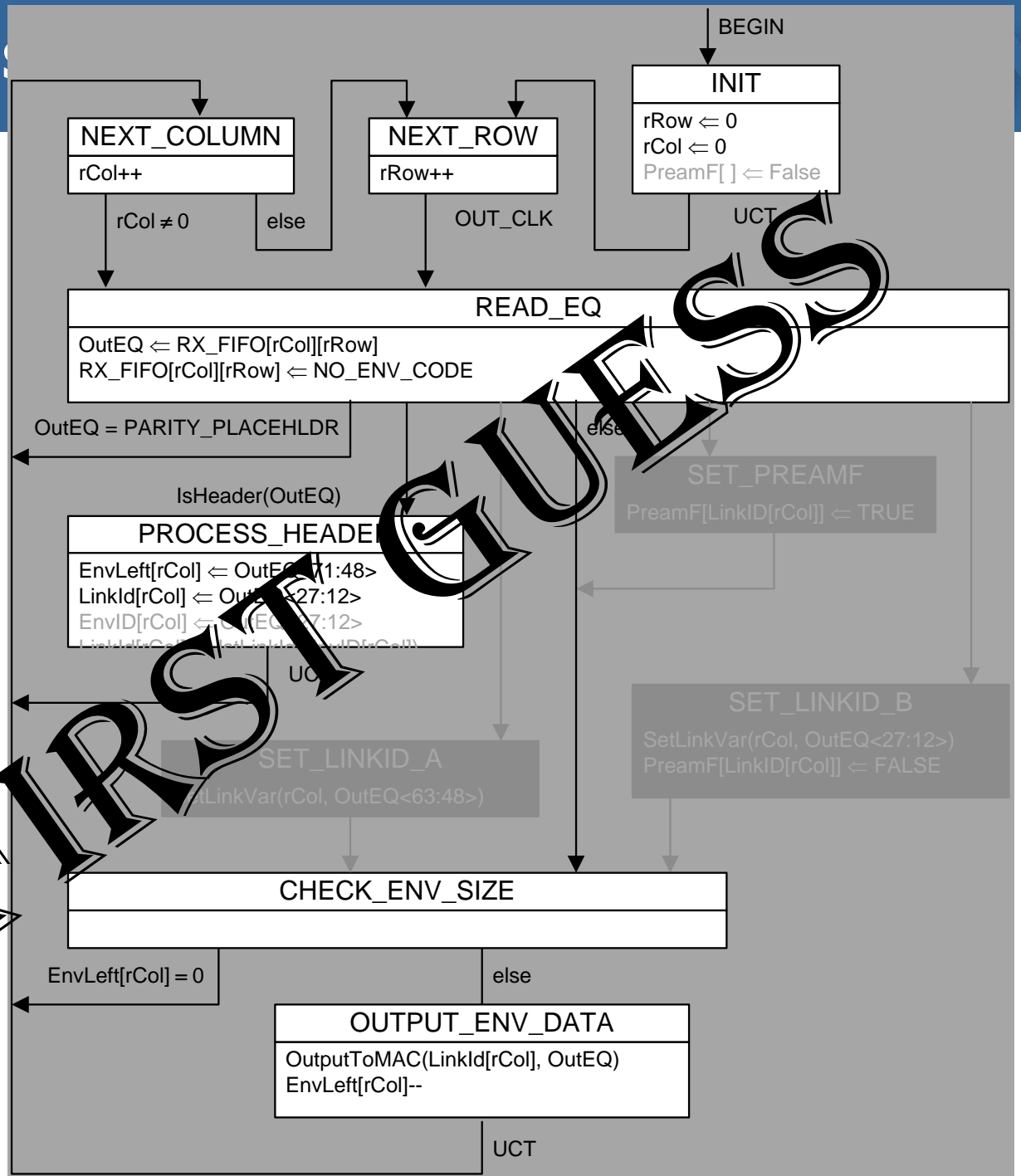
- ❑ Simpler SDs:
 - No unnecessary memory for GLID→ULID map in MPRS
 - No unnecessary memory array for PreamF[]
 - Reduced number of states
- ❑ Reduced overhead (Preambles replaced)
- ❑ Higher usefulness for GLIDs
 - No restricting ULID to single GLID membership

INPUT PROCESS



FIRST QUESTIONS

OUTPUT PROCESS



FIRST GUESSES

THANKS