

The Layer Refresh Request (LRR) RTCP Feedback Message

draft-ietf-avtext-lrr-00

Jonathan Lennox

Danny Hong

Justin Uberti

Stefan Holmer

Magnus Flodman

AVTEXT, IETF 93

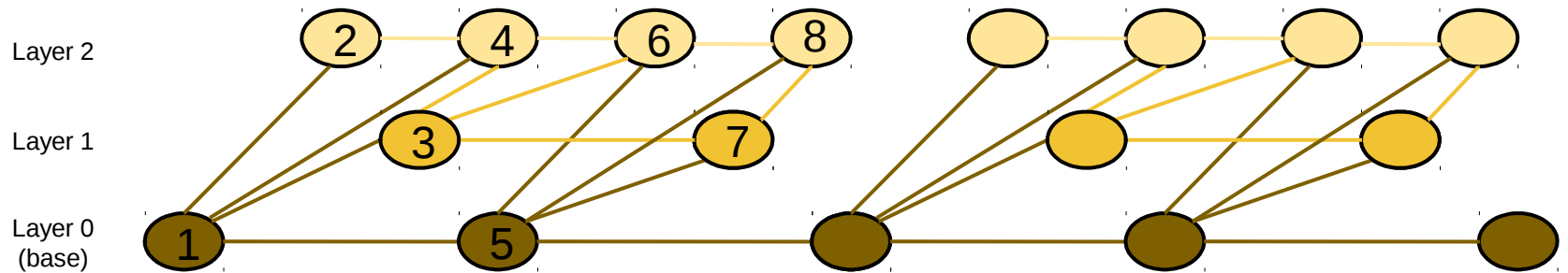
Changes since lennox-00

- Added descriptions for detecting layer switching points for VP8, H.264/SVC, H.265.
- Added some more examples of layer structures.

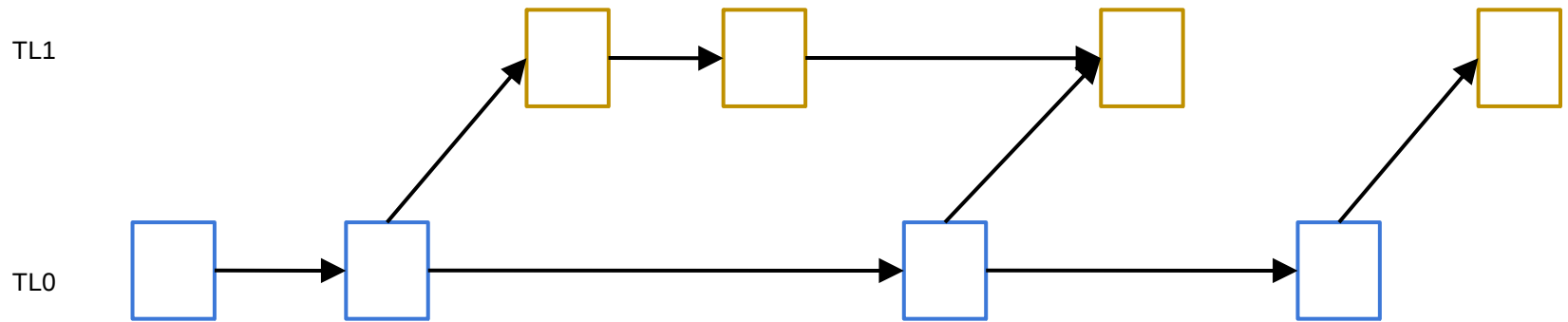
Detecting Layer Switch Points

- H.264/SVC:
 - Complete, I think
 - But needs review
- H.265
 - Works for spatial
 - Not that this is defined in the payload type yet
 - Trivial for scalably-nested temporal.
 - Not possible for non-scalably-nested temporal?
- VP8
 - Maybe just the “Y” bit, but needs VP8 expertise.
- VP9
 - Text incomplete from previous version, needs review.

Temporal switch points are complicated



Temporal switch points are complicated



Related open issue: FIR for spatial MRST/MRMT

- Does it mean refresh layer, or refresh stream?
- Only relevant for H.264/SVC at the moment
 - VP8 and H.265v1 only have temporal
 - VP9 only has SRST
- And RFC 6190 doesn't define FIR for MRST/MRMT cases
- Do we want to define it? If so, how? And where?
- What do existing SVC MRST/MRMT implementations do?