

# RTP Splicing Notificaiton

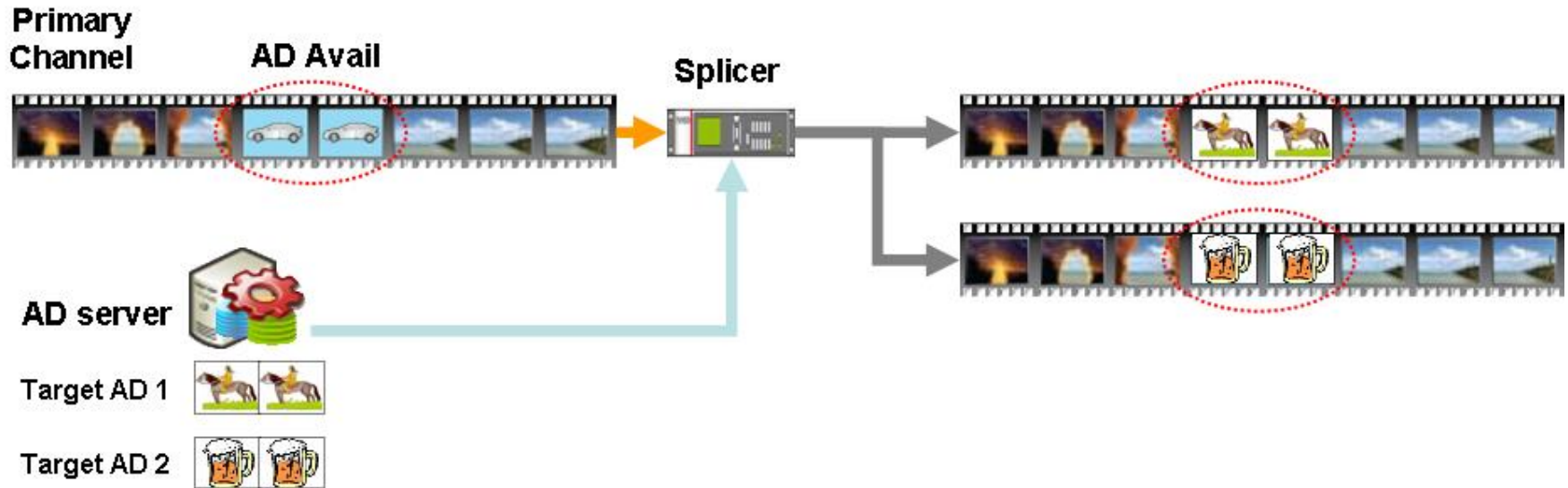
draft-xia-avtext-rtp-notification-02

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# Recap: RTP Splicing



- [RFC6828] defines to use Mixer as RTP splicer, but doesn't define any mechanisms to convey Splicing Interval( [when to start and end the splicing](#) ) from Main RTP Sender to Mixer.
- [SCTE35] provides a method that encapsulates the Splicing Interval inside the MPEG2-TS layer.
  - But MPEG2-TS is not always support in all RTP sessions
  - The mixer has to decode RTP packets to get the Splicing Interval insides the payloads, this behavior enhances the workload on the Mixer

# RTP Splicing Notification

- Extending RTP to contain RTP splicing metadata
  - Splicing In NTP timestamps
  - Splicing Out NTP timestamps
- Two extensions are introduced
  - RTP header extension
  - RTCP Splicing Notification Message
- Both of extensions are sent to provide robustness

# Major Changes since version -01

- Add Lingli Deng (from China Mobile) as co-author.
- Change the format of RTP Header Extension as following figure

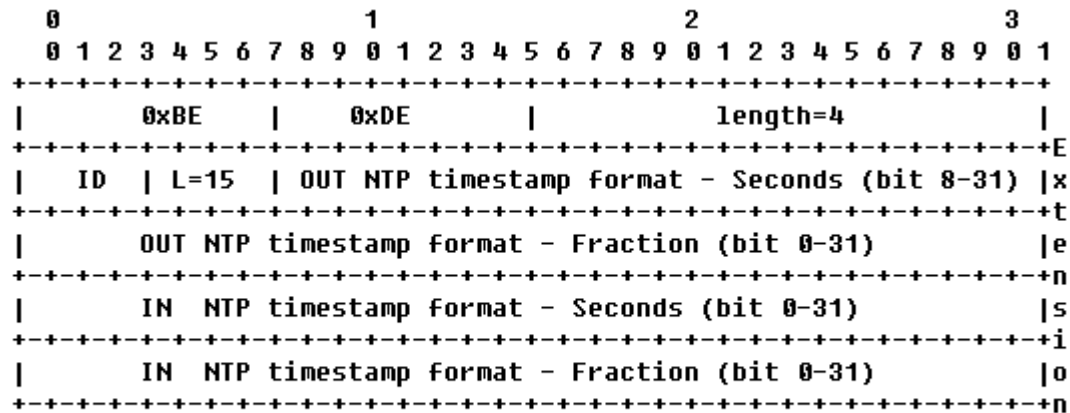
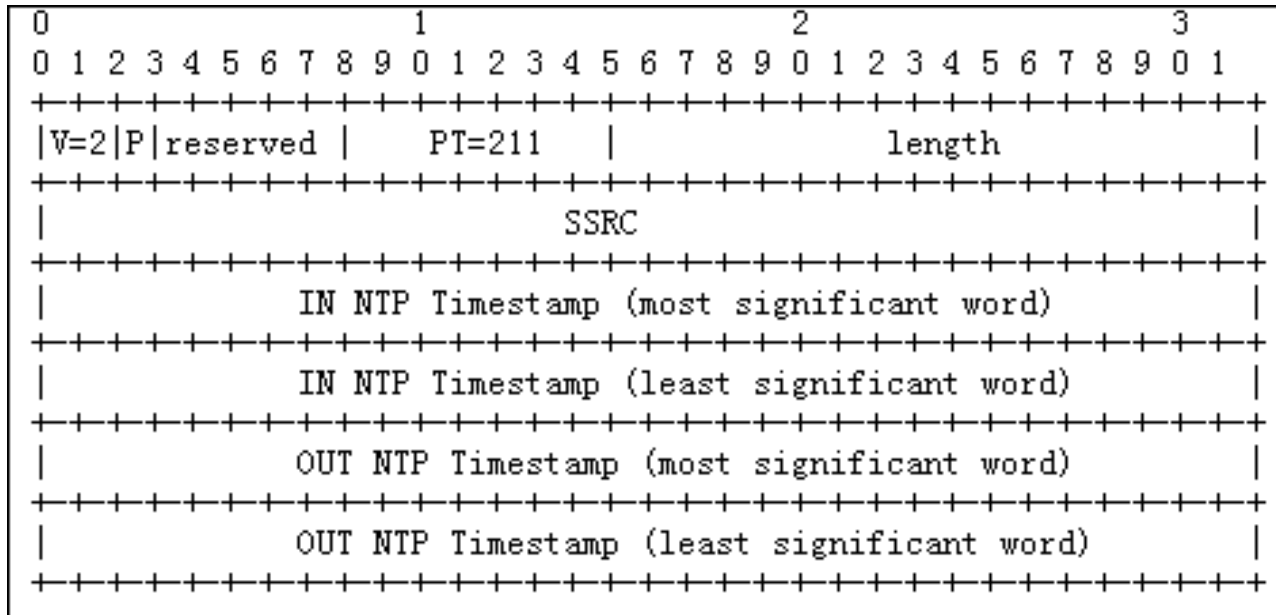


Figure 1: Sample hybrid NTP Encoding Using the One-Byte Header Format

This order allows full resolution for splicing-in NTP timestamp while keeping 4 octets alignment.

# RTCP Extension Message



- RTCP Extension message is kept intact
- RTCP SNM could be sent in compound RTCP packets and follow the regular RTCP timing rules, or non-compound RTCP if RFC5506 is supported

# Next Step

- Is there any open issues?
- Interesting enough to be adopted as a new work item?