

# RTP Splicing Notificaiton

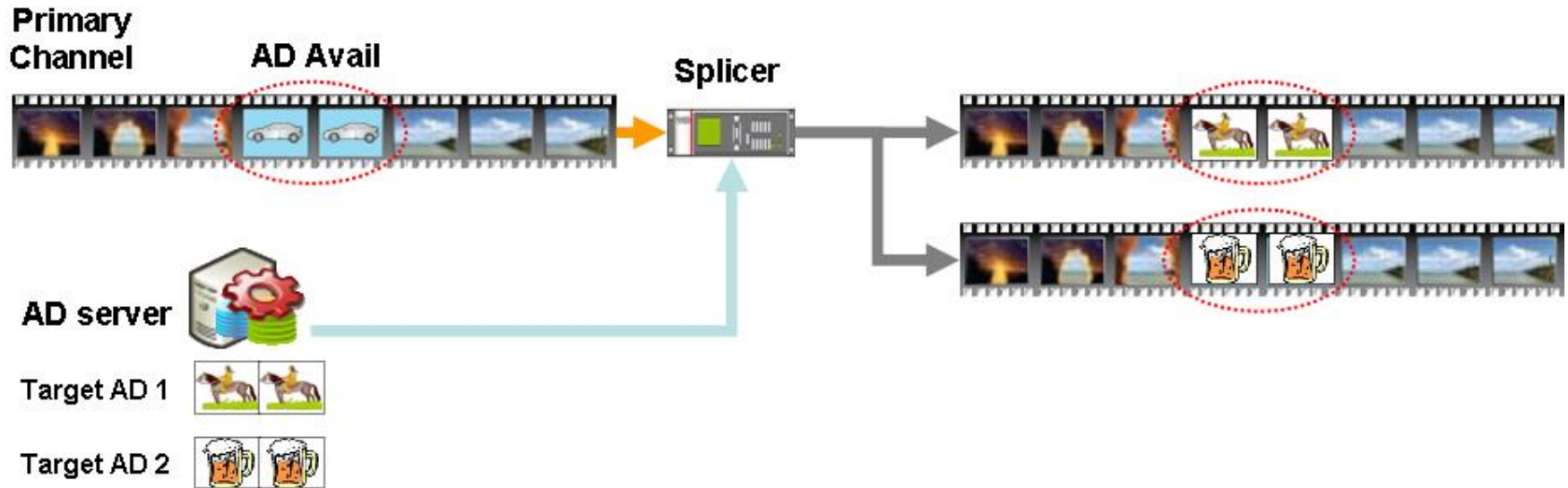
draft-xia-avtext-rtp-notification-03

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# RTP Splicing

- RTP splicing is a process that allows an RTP intermediary system like an RTP mixer to insert new content from a different RTP source to a currently distributed RTP stream.
  - Similar to MPEG2 but done in the RTP level providing flexibility for IP delivery.
  - The insertion point is specified by the content provider.
  - Used for AD insertion
  - May be used for inserting any other content like presentation from a different source directly by the RTP mixer.

# RTP Splicing



- [RFC6828] defines how to use an RTP Mixer as an RTP splicer, but doesn't define any standard mechanisms to convey Splicing Interval( **when to start and end the splicing** ) from Main RTP content provider to the RTP Mixer.

# Proposed RTP Splicing Notification

- Required information for specifying RTP splicing.
  - Splicing In NTP timestamps
  - Splicing Out NTP timestamps
- Two extensions are proposed for providing the Splicing information:
  - RTP header extension
  - RTCP Splicing Notification Message
- Both extensions can be sent to provide robustness

# RTP Header extension

- The format of RTP Header Extension is

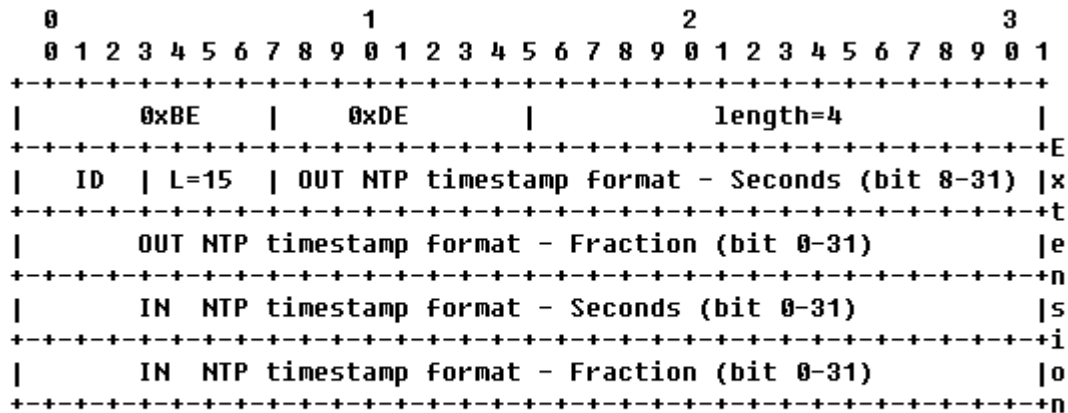
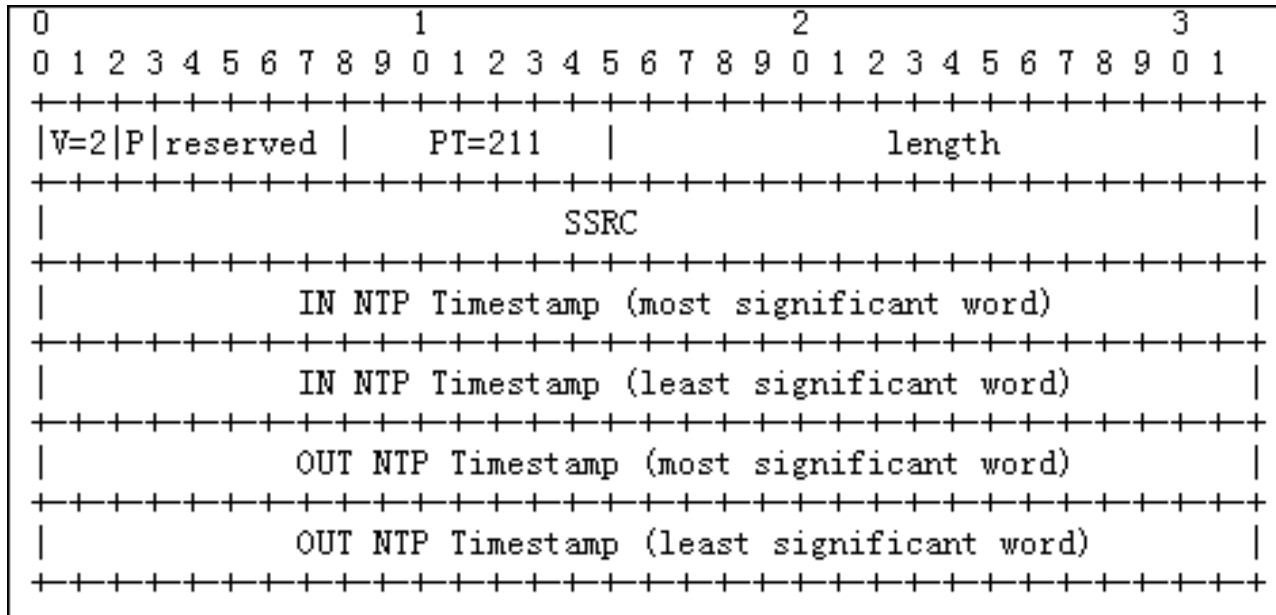


Figure 1: Sample hybrid NTP Encoding Using the One-Byte Header Format

This format 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

- Are there any open issues?
- Adopted as a new work item?