

RTP Payload Format for 3GPP Timed Text

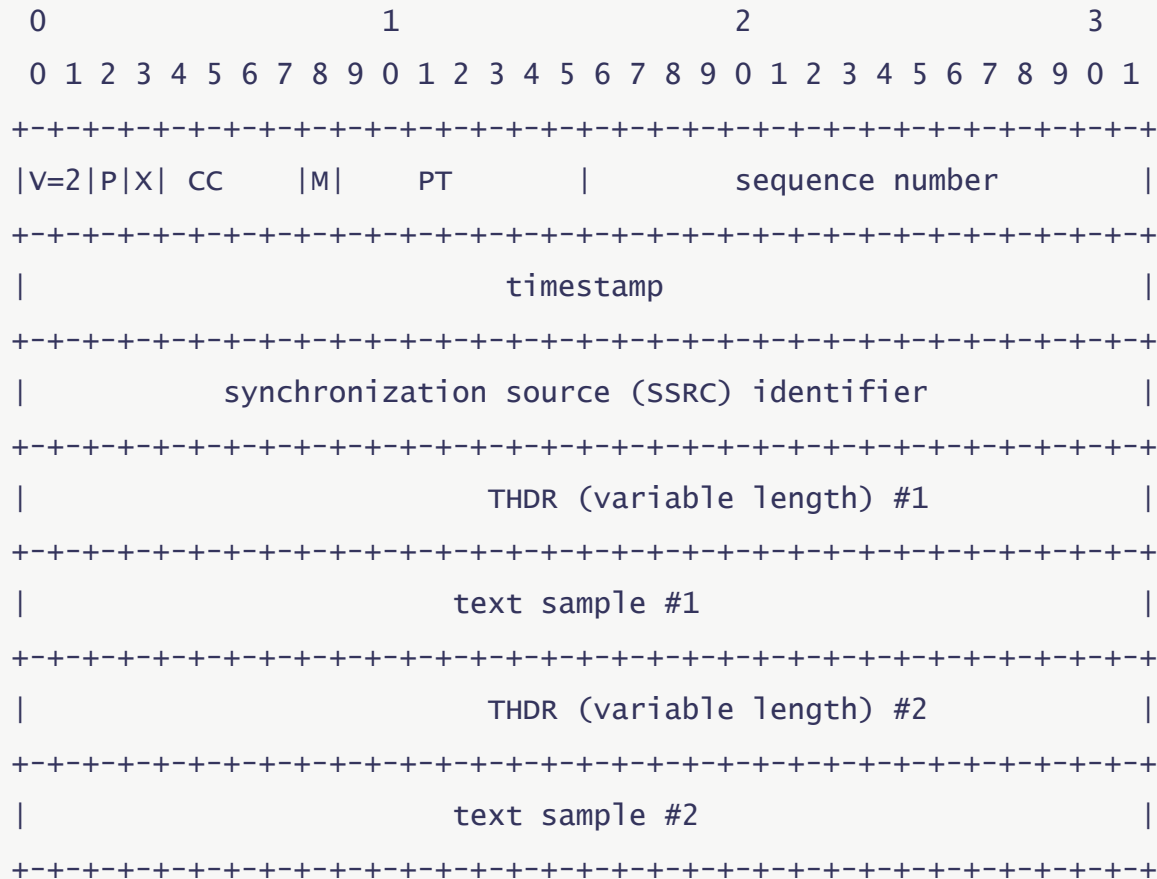
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Motivation

- ◆ 3GPP Timed Text format needs an RTP payload format for streaming services like 3GPP's MBMS (multi-/broadcast) and PSS streaming (unicast)
- ◆ The payload format is due to Release 6 deadline: maybe March'04, probably June'04...
- ◆ The payload format should be as simple as possible

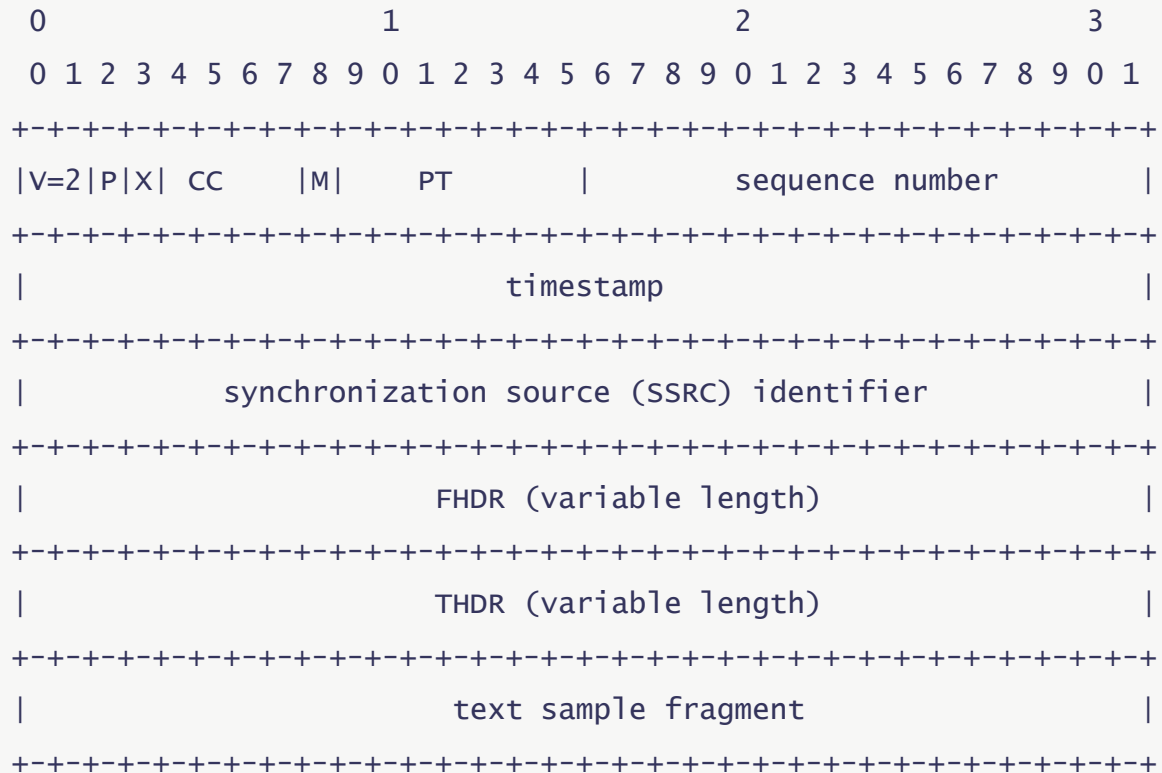
Payload Format (1/2)

- ◆ RTP packet containing whole text samples



Payload Format (2/2)

- ◆ RTP packet containing a text sample fragment



Open Issues (1/3)

- ◆ How to send text sample parameters like, e.g. the track header and sample description?

- For track header, proposal:

```
» a=fmtp:99 width=176;height=144;layer=1;tx=0;ty=0
```

- For sample description: it might get big, ~500 bytes. SDP maybe not best way -> what to do? (see next slide)

Open Issues (2/3)

– For sample description (contd.)

» Option 1: send it out-of-band:

◆ 1.a: send it uncompressed anyway...

– `a=fmtp:99 stsd=00xxxxxx`

◆ 1.b: send URL and fetch it using HTTP?

◆ 1.c: compress it? Some kind of compression within SDP?

» Option 2: send it in-band (does makes sense for live content creation)

» Option 3: use both depending on size. If so, what would be the size threshold?

Open Issues (3/3)

◆ Resilient transport:

- fragmentation should be documented in this draft
- Repetition should be documented in a different draft
- FEC and retransmission also possible. Need no documentation.

Outlook

- ◆ Fragmentation will be documented in next revision of draft.
- ◆ SDP section will be completed
- ◆ Examples

- ◆ Is AVT willing to accept this as WI?

◆ Thanks for your attention!!