P M C E L

Panasonic Multimedia Communication European Laboratory

Payload Format for 3GPP Timed Text

draf-ietf-avt-rtp-3gpp-timed-text-04.txt

José Rey
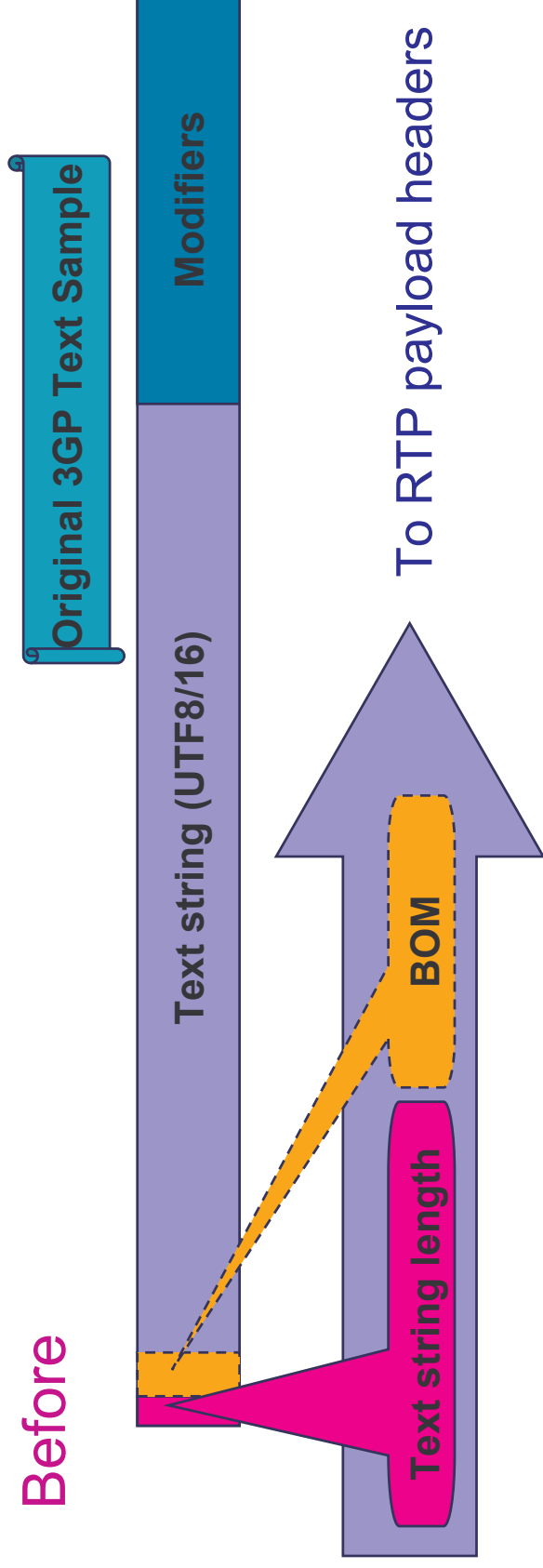
rey@panasonic.de

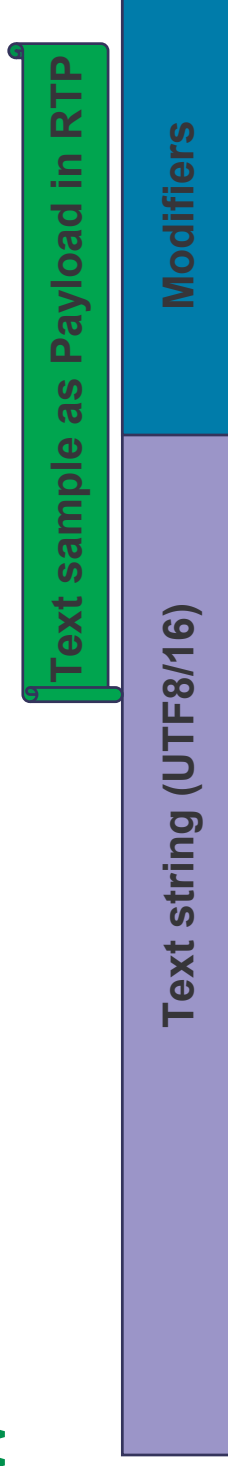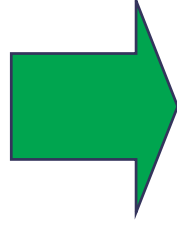**Panasonic** Panasonic European Laboratories GmbH

Changes

- ◆ Text sample definition (nit)

- ◆ Aggregation

- ◆ Conclusions on Timestamp resolution

- ◆ Conclusions on Offer/Answer

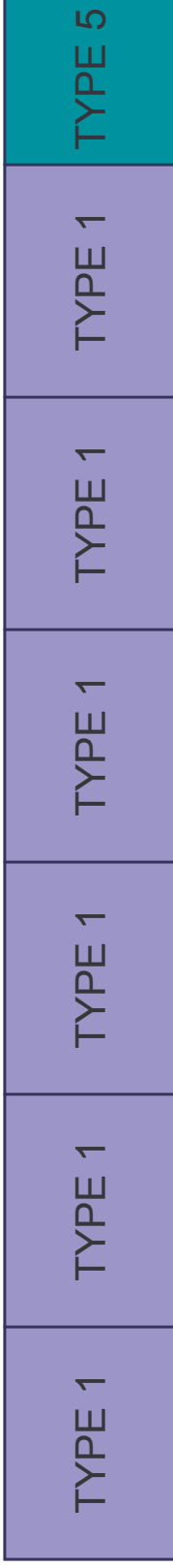- ◆ Outlook

Text sample

Aggregation

◆ Only following allowed:

   – One or more text samples (TYPE 1 unit) in an RTP payload + <u>any number</u> of sample descriptions

   – ONLY fragments of the <u>same</u> text sample:

      » ONE text string fragment (TYPE 2 unit) + ZERO or ONE modifier fragment (TYPE 3) + <u>any number of</u> sample descriptions

      » ONE modifier fragment (TYPEs 3 & 4) + <u>any number of sample</u> descriptions

◆ Inline RFC 3640

◆ This is simple and not inefficient since fragmentation should be <u>rare</u>

Aggregation examples

A) Several text samples (TYPE 1) + sample description (TYPE 5)

TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 1	TYPE 5

B) **Fragments of same SAMPLE fragment (TYPE 3/4) + sample descriptions**

B.1)

TYPE3/4 (modifiers)	TYPE 5	TYPE 5	TYPE 5

B.2)

TYPE 2 (text)	TYPE 3 (modifiers)	TYPE 5	TYPE 5	TYPE 5

Timestamp

- ◆ Recommended is 1000 Hz
- ◆ MAY be different BUT
  - – Too low resolution MAY turn RTCP interarrival jitter useless
  - – Other measurements using RTCP XR (cf. RFC 3611 section 4.3), "Packet Receipt Times Report Block" would also be affected

Offer/Answer - Unicast

◆ Display parameters:

– "tx", "ty", "layer": receiver decides, sender MAY suggest

◆ Stream parameters (symmetric)

– "height", "width", "tx3g" : sample description and text track size, MUST NOT be changed

◆ Version negotiable

– "sver" list send by offerer, MAY be changed by answerer.

Offer/Answer - Multicast

◆ All participants see same, thus symmetric:
– "tx", "ty", "layer", "height", "width", "tx3g",

◆ Negotiable
– "sver"

Outlook

- Resolve any remaining issues in this meeting
- Submit update (−05)
- Request WGLC
- Questions?