

# PMCEL

Panasonic Multimedia Communication European Laboratory



## Update on 3GPP Timed Text Payload Format draft-rey-avt-3gpp-timed-text-02.txt

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# Outline

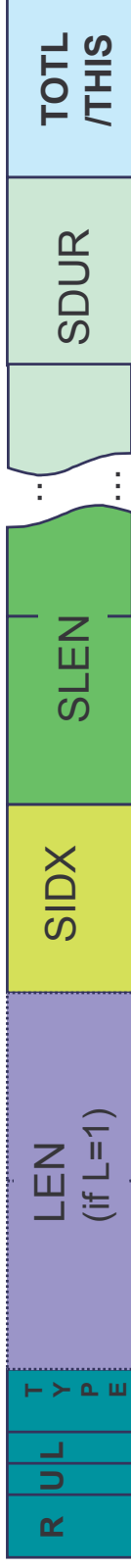
- ◆ Update on current draft
  - Modular Payload Headers
  - Complexity
  - Interoperability
- ◆ Issues
  - Fragment ,interleaving‘
  - Sample descriptions
- ◆ Next Steps

# Modular Payload Headers

- ◆ TYPE=1 : complete test samples (also empty & unknown duration), 5-7 bytes



- ◆ TYPE=2 : text string fragments, 8-10 bytes




- ◆ TYPE=3 & 4 : first & other modifier fragments, 2-4 bytes



- ◆ TYPE=5 : sample descriptions, 2-4 bytes

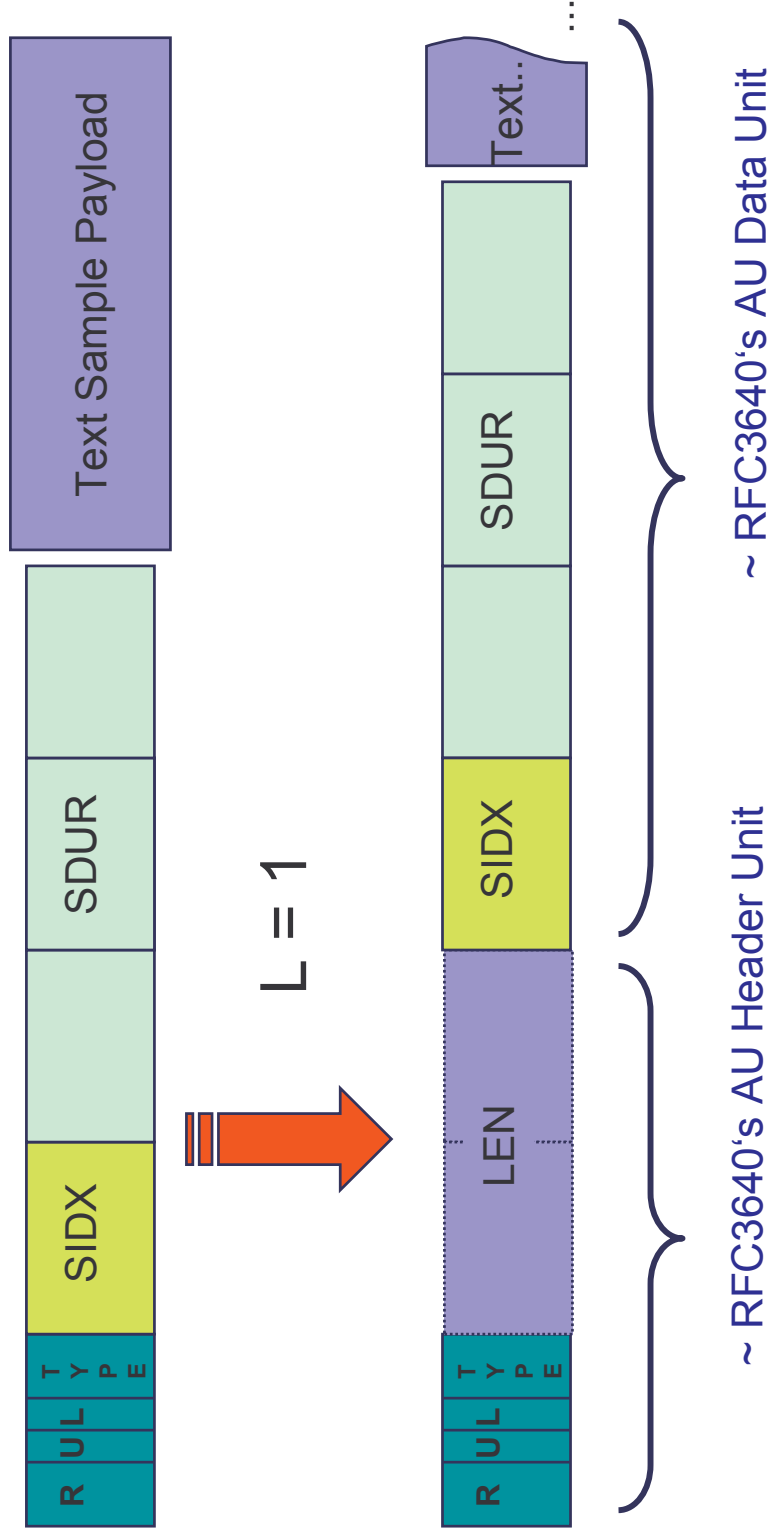


# Complexity

- ◆ Overall complexity reduced
- ◆ Advanced fragmentation headers: FHDR, MTSF removed (draft -01)
  - These enabled self-contained fragments of text strings and modifier boxes  complex! gain?
    - » Q: should we keep the feature?
    - » A: NO
  - Instead only text string fragments are individually displayable
  - **trade-off**: modifier fragments are not individually useful
  - **BUT**... they SHOULD be protected using repetition, FEC, retransmission,..

# Interoperability

- ◆ Optional LEN field allows AU-like structure for interoperability with RFC 3640
- ◆ Q: Make it default?



## Issue: Fragment ,interleaving'

- ◆ Modifier fragments and SDs (no timing info) MAY be repeated as often as needed
- ◆ (+) useful to protect particular fragments/packets or SDs:
  - » [S1][S2F1] [S4F2] [S5] [S6F2] [S7F1] -> protects S3=(F1, F2)
- ◆ (-) variable fragment size -> unpredictable delays, complex, not real time
- ◆ Therefore, IF used, then with caution!!
- ◆ this ,interleaving' may be used in addition to or as replacement to packet repetition, FEC or retransmission

## Issue: Sample Descriptions

- ◆ out-of-band tx MANDATORY,
- ◆ in-band NOT
- ◆ Q: Make both MANDATORY?

## Next steps

- ◆ We propose to make this a WG Item
- ◆ Move quick forward to meet delayed Release 6 deadline (June-September'04)
- ◆ Questions?