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FOR A SAFER WORLD

101st IEFT Forum
Payload Working Group

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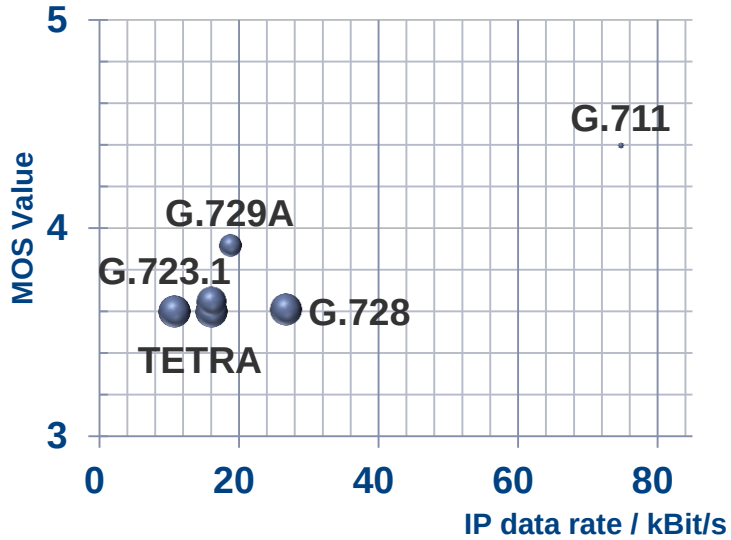
draft-df-stecker-expertenforum-payload-tetra

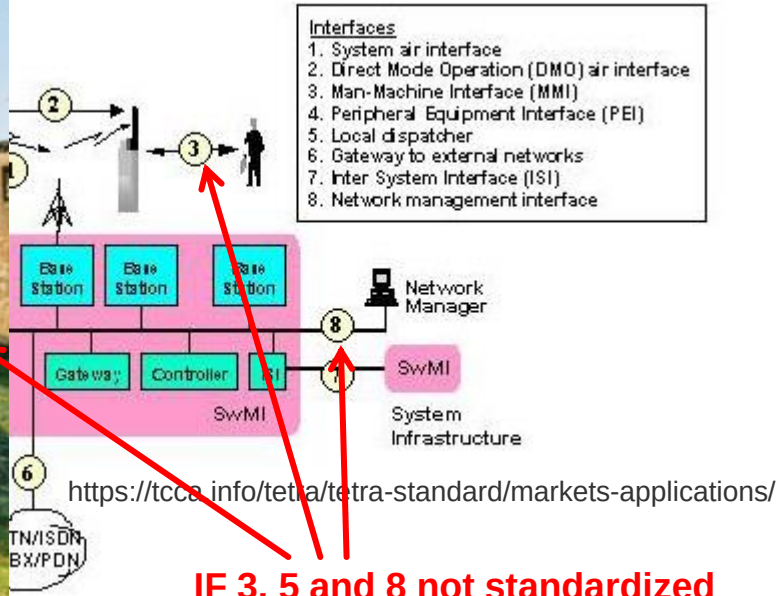
TETRA Codec Characteristics

- Characteristics
  - Algebraic Code Excited Linear Prediction
  - 4.6 kBit/s nominal
  - RTP Payload size
    - 20 Bytes (30ms)
    - 40 Bytes (60ms)
- Comparison
  - RFC3551 specifies
    - G.711, G.728, G.729, G.723.1
  - complexity:
    - TETRA codec similar to G.728



Why should we standardize TETRA codec as RTP payload?

TETRA Terrestrial Trunked Radio



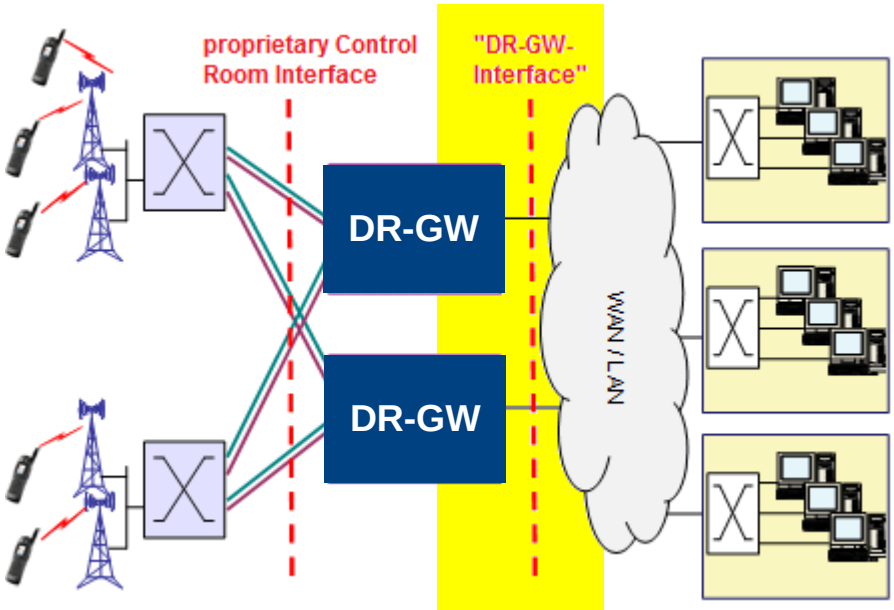
https://tcca.info/tetra/tetra-standard/markets-applications/

IF 3, 5 and 8 not standardized

Industry Standard

PMeV
NETZWERK SICHERE KOMMUNIKATION

- Control Room Interface to access TETRA infrastructure
  - SIP/**RTP** for voice communication
  - SOAP/xml for data and management
- TETRA Codec matters
  - **no transcoding required**
  - **1/7 IP-QoS Bandwidth** (ref. to G.711)
- e.g. Fire Brigades Berlin
  - 800 Talk groups
  - permanent monitoring/recording
  - <9 instead of 60 MBit/s



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Air Traffic Management
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