

IEEE 1722a Timestamp Extension Proposal

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Justification

- Current 32-bit timestamp field normally gives ~2 seconds window into the future and ~2 seconds in the past, if not biased.
- Either window may be too small for some applications.

Proposal

- No change on 1722 v0 header
- Add 1 bit timestamp_resolution (tr) field to 1722 v1 header relevant subtypes, where value 0 = 1 ns; 1 = 10 ns
- The timestamp resolution applies to both avtp_timestamp and event_timestamp fields.

1722 – AVTP-61883 PDU

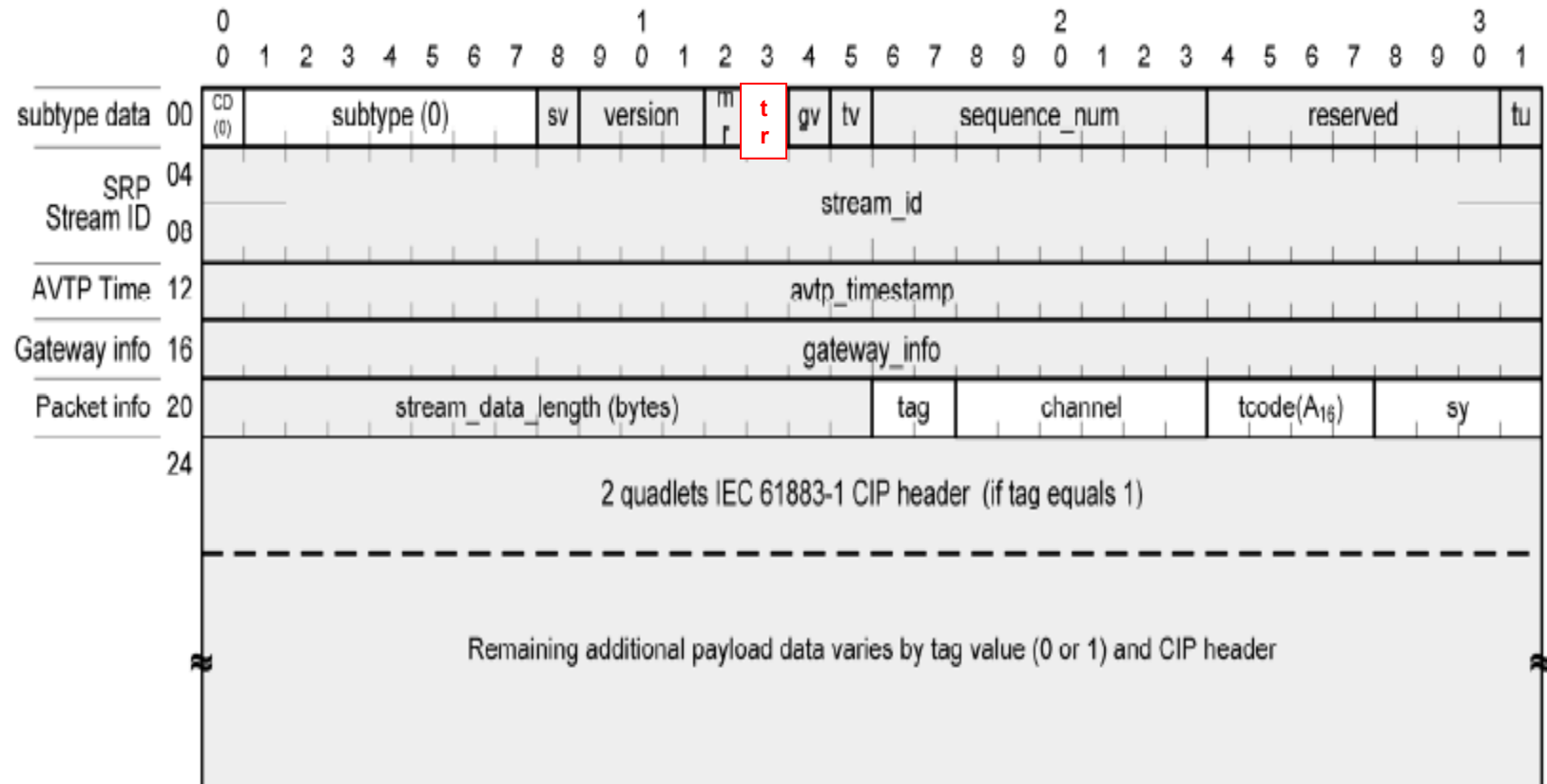


Figure 6.1—IEC 61883/IIDC common header fields

1722a - AVTP Audio PDU

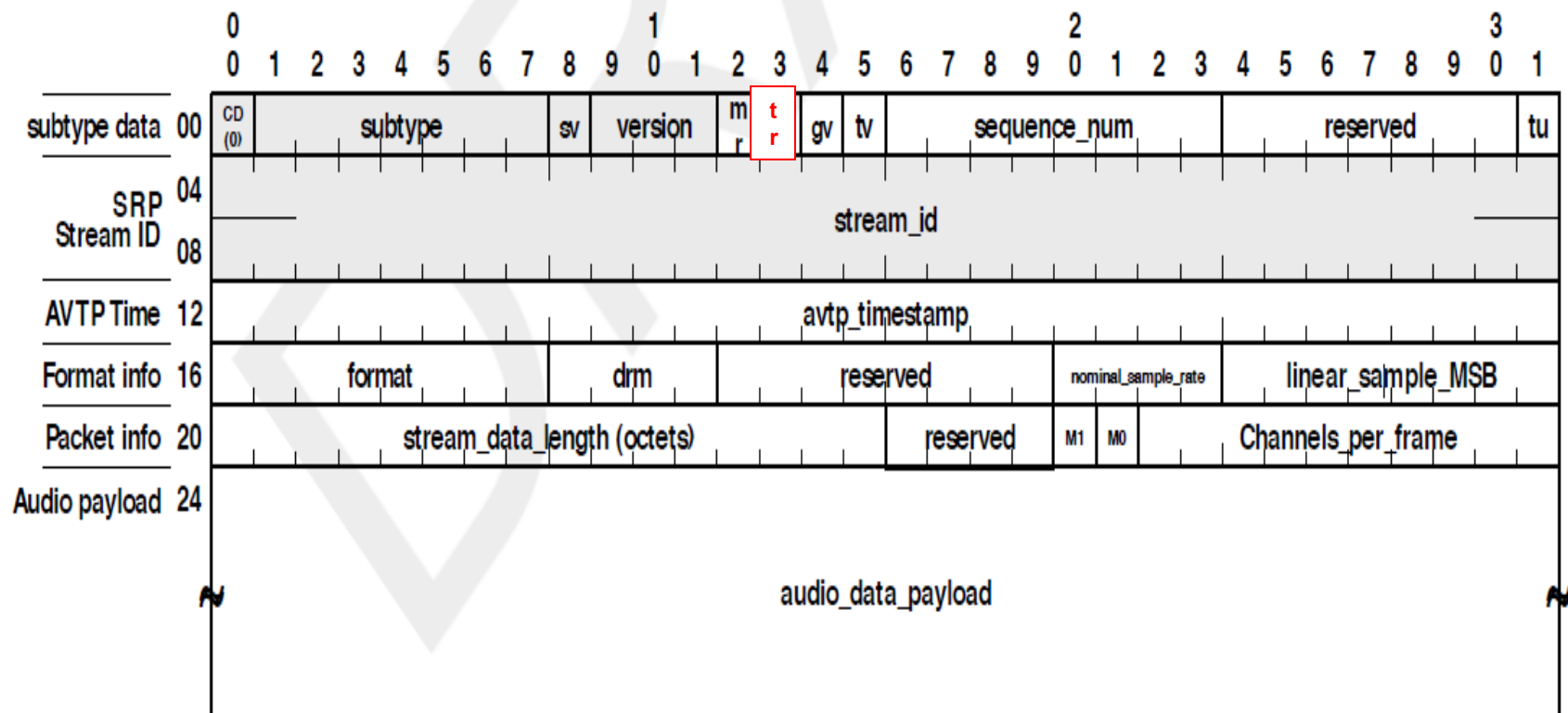


Figure 8.1. AVTP Audio PDU format

1722a - AVTP Video PDU

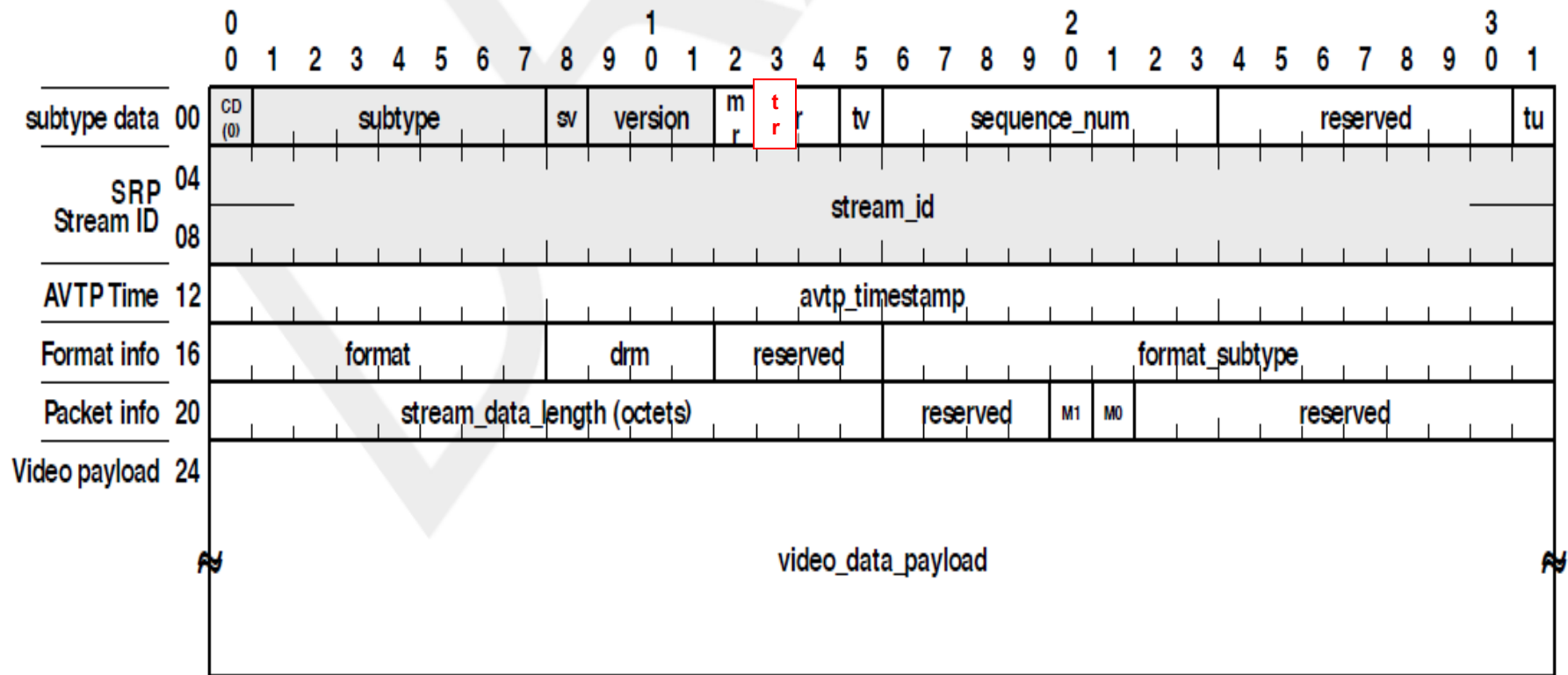


Figure 9.1. AVTP Video PDU format

1722a - Control Stream PDU

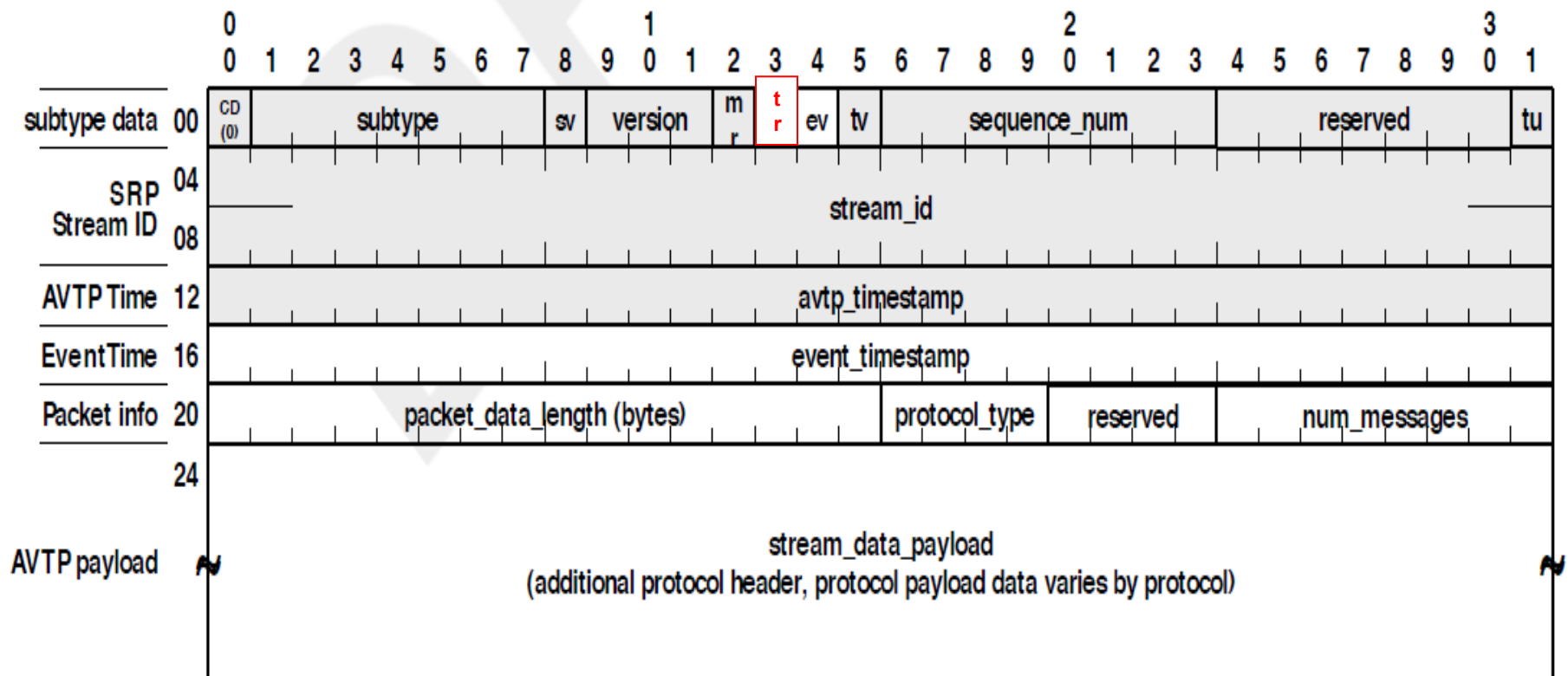


Figure 10.1. control stream PDU format