

HARMAN

IEEE 1722a Presentation time for Sensors

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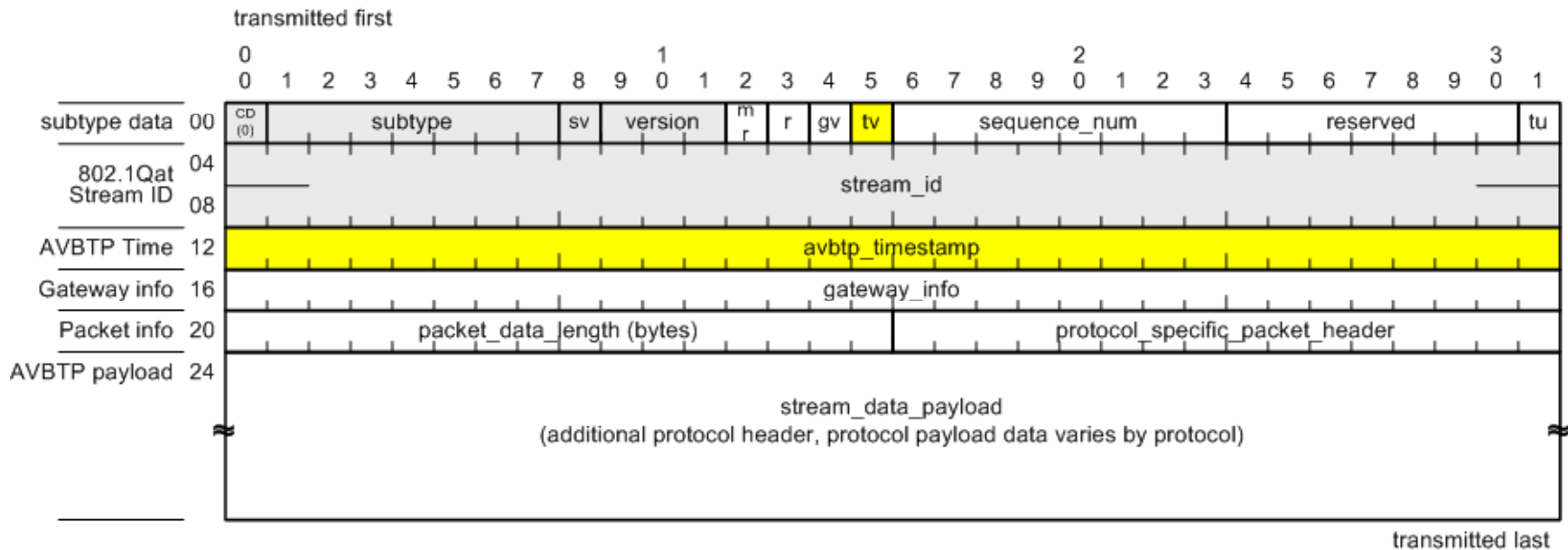
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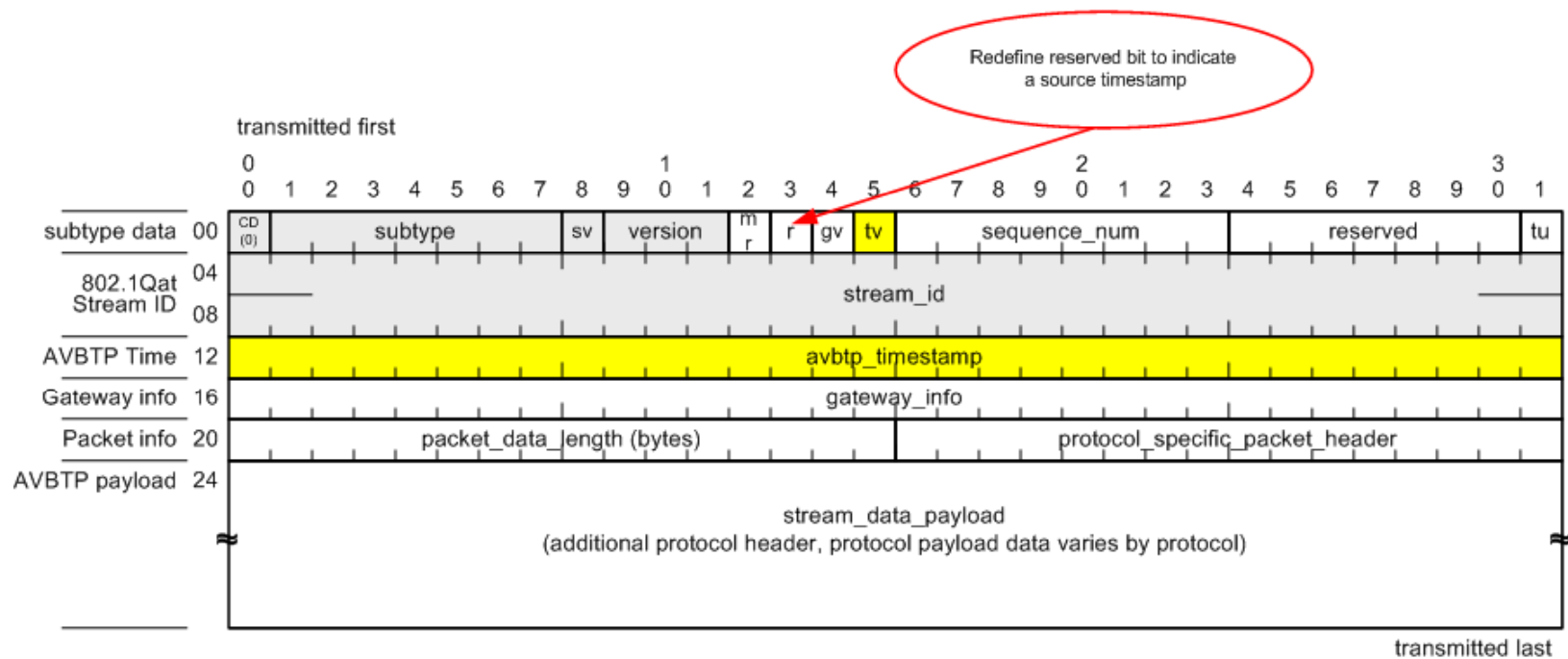
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- **Automotive Sensors have different timestamp needs**
 - **The concept of when to “Play” a sample from a sensor doesn’t have any meaning**
 - **Sensors should have a source timestamp**
 - When the sensor acquired a sample is interesting
 - **Current timestamps have a 4.29 second wrap**
 - Is this adequate for a sensor network or do we need to expand or modify this?
 - Current timestamp is 32-bits of nanoseconds
 - Timestamp could be extended to 64-bits (hundreds of years rollover)
 - Redefine source timestamp to 32-bits of microseconds (over an hour rollover)

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- **We do not want to add confusion. The new timestamps should only be used for sensors, A/V data should continue to use standard 1722 Presentation Time.**
 - Sensors could include drivers assist cameras
 - Not all sensors need to be time aware

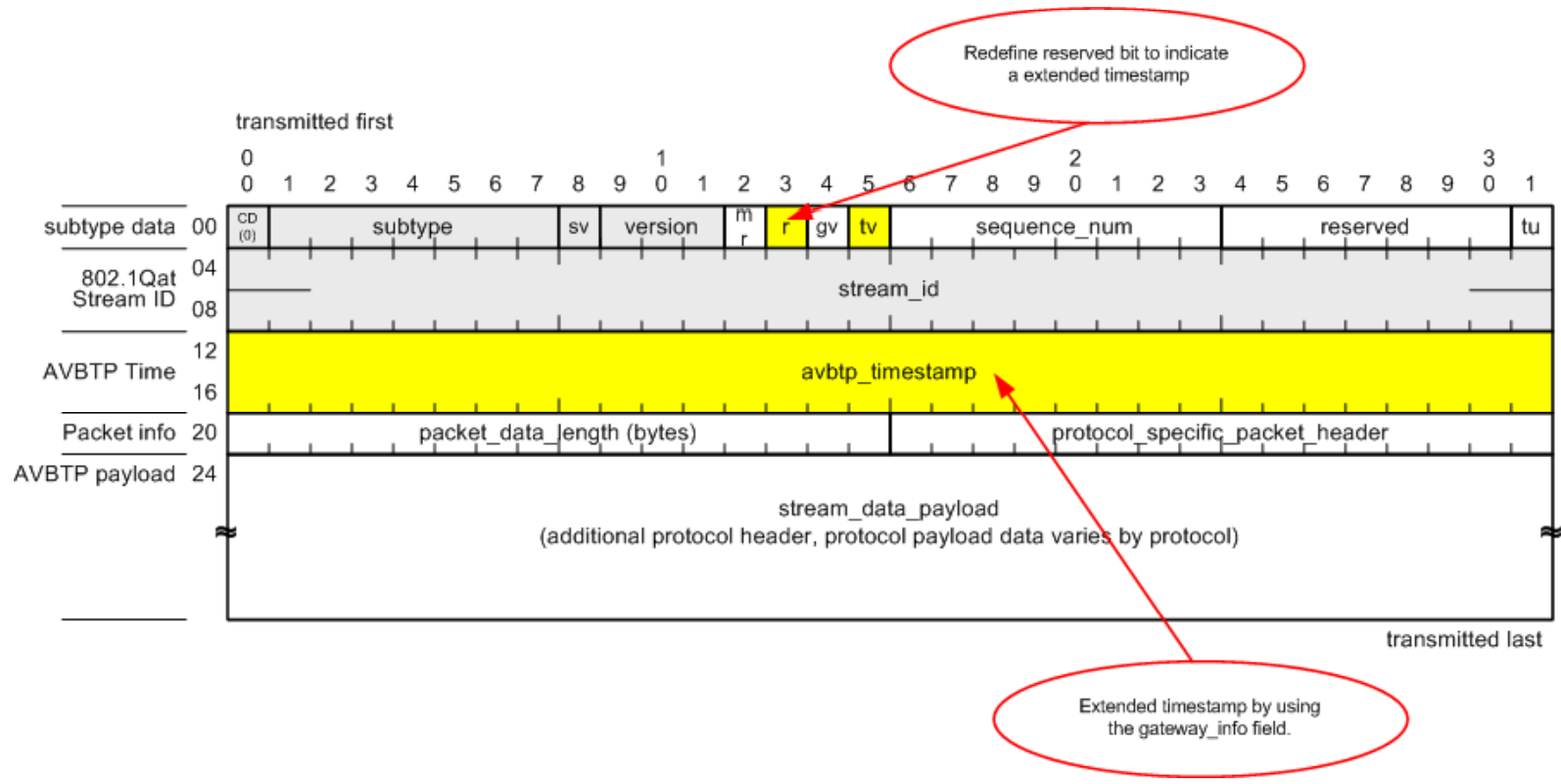
Current Presentation Time



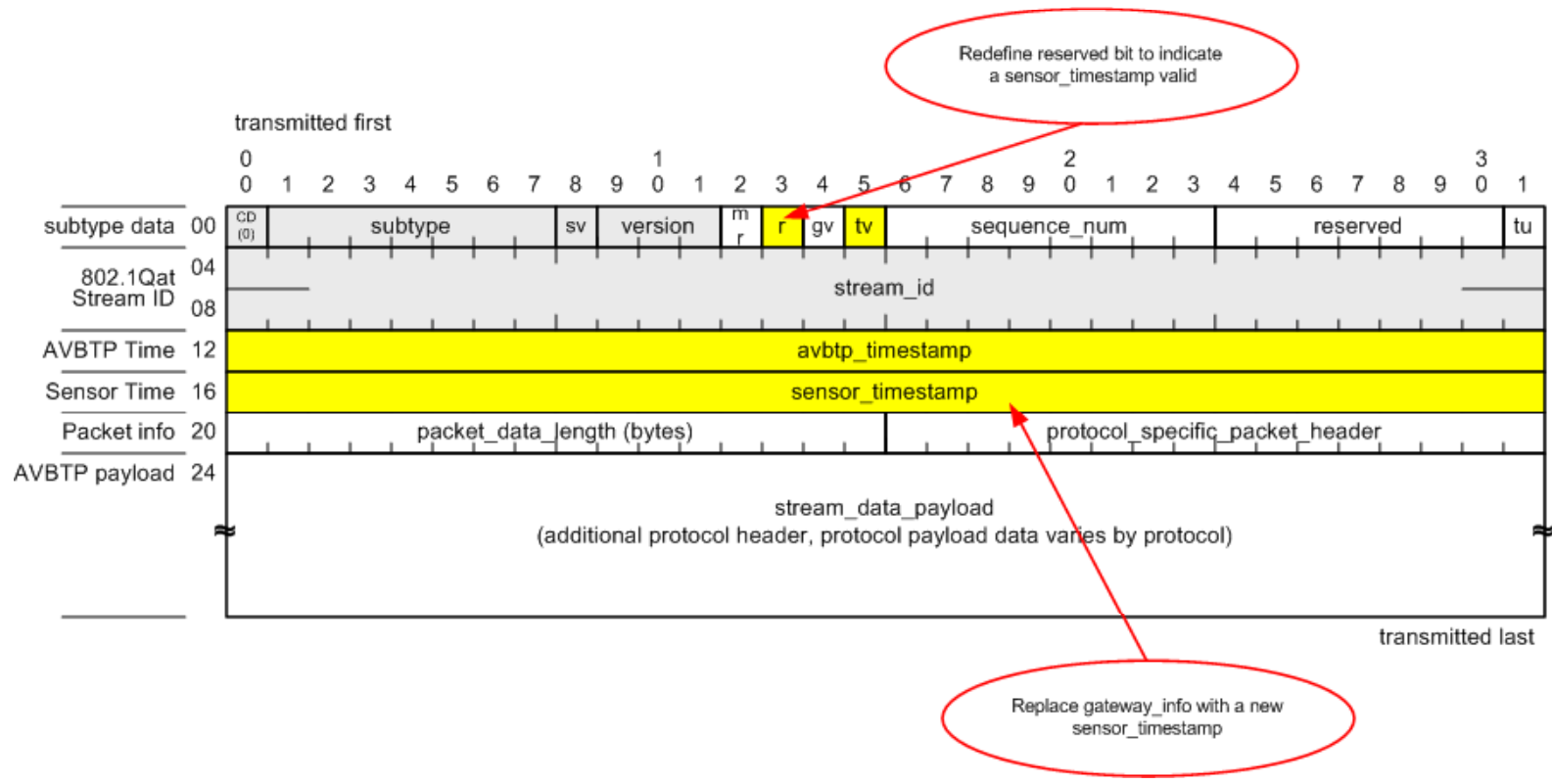
Source timestamp bit (Option #1)



Extended timestamp (Option #2)



Alternative timestamp field (Option #3)



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WHERE SOUND MATTERS

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