Accommodating leap seconds in RTP

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Problems during leap second

• Ambiguous timestamps
• NTP/Unix discrepancy
• Clock discontinuities and rate changes
• Failure to receive notification of leap-second schedule
Proposed solution

• Senders SHOULD NOT generate UTC time-stamped SRs during *leap second event*. A RR MAY be sent instead
• Receivers SHOULD ignore any UTC time-stamped SRs during *leap second event*
• *Leap second event* is last two seconds of the affected day
• Devices may refer to leap-second schedule or MAY assume a leap second on the last day of every month
-02 changelog

- Recommend sending RR instead of SR during leap second to prevent RTCP timeouts
- Simplified implementation assumes leap second at the end of every month
- Distinguish positive and negative leap seconds
- Leap second inserted at end of UTC day
- Clarify NTP leap second implementation
- Security considerations
- Segregate informative and normative references
Comments

• John Fletcher
  – "Universal Coordinate Time“ -> "Coordinated Universal Time“
  – "leap second“ -> "positive leap second”
  – ITU Rec. TF.460 -> TF.460-6 (02/02)

• Your name here...
# History

<table>
<thead>
<tr>
<th>Discussion or draft</th>
<th>Originally submitted</th>
<th>Revisions</th>
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<tr>
<td><a href="mailto:avt@ietf.org">avt@ietf.org</a> discussion</td>
<td>2011-09-14</td>
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Status

- Editorial revisions
- Ready for WGLC