draft-ietf-avtcore-leap-second-02

Accommodating leap seconds in RTP

Kevin Gross

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

Discussion or draft	Originally submitted	Revisions
avt@ietf.org discussion	2011-09-14	
draft-ietf-avtcore-idms-02	2011-10-31	2
draft-gross-avtcore-leap-second	2012-05-08	2
draft-ietf-avtcore-leap-second	2012-06-21	3
Total	1.5 year	7

Status

- Editorial revisions
- Ready for WGLC