RTP Payload Format for Geographical Location

draft-marjou-geopriv-avt-geoloc-00.txt

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Context

• Use-Cases
  – A moving user wants to share his geographical location for a long duration with a remote user who can thus instantaneously watch his current location.
  – Same as previous one, but audio and video are also shared.

• Need to transport GPS location several times per minute.
Proposal

• Use RTP to send geolocation data
  – Support for real-time transport,
  – Support for time synchronization between geolocation and other media,
  – Support for multicast.

• Why not an SDES RTCP solution?
  – If there is no other media (e.g. no audio, no video), empty RTP payload would be needed (95% of "empty traffic")
Open-points

• Is "sending geolocation data within RTP" in the right direction?

• If yes, new payload format is needed
  – Which data in the payload?
    • Longitude, latitude, altitude,
    • Speed, compass…
    • Other?
  – Which data format?
    • Binary or XML?
    • Use a consistent approach with other geolocation related work (IETF and other SDOs).
Next steps

• Is there interest in such a work?

• Where and how should the work progress?