Session Announcement Protocol

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Status

• In Washington DC we thought this was ready for last call, after minor revision
• This was conducted earlier this year and showed that a number of open issues remain
• Two more revisions of the draft have addressed some of these
  – draft-ietf-mmusic-sap-v2-06.txt
• We have to resolve the rest today
Summary of changes (I)

- Timer reconsideration algorithm updated to match RTCP
- Remove references to "client" in the text, now talks about SAP announcers and listeners only.
- Clarify that TTL scoping is discouraged
  - Use administrative scoping instead
- Clarify section on session deletion
Summary of changes (II)

- Remove the optional timeout field from the packet format.
- It was only used for encrypted SAP, for those cases where a proxy didn't have the decryption key.
- We now rely on either:
  - the receiver of an announcement understands the payload, and can derive the session timeout from it (common case)
  - the announcer sends explicit deletion packets
  - the receiver will timeout an announcement
Summary of changes (III)

• Clarify why we use application level authentication, not IPsec
  – very little IPsec deployment
  – unclear how to setup the necessary authentication infrastructure for multicast IPsec, when the sender doesn’t know the receivers

• Instead we leverage application level authentication, with well defined mechanisms
  – PGP, CMS
Summary of changes (IV)

• Make all authentication schemes optional
  – Previously, authentication was optional but if implemented
    PGP had to be supported
  – Now it’s optional, with no mandated algorithms
    • PGP and CMS are specified
Open issue

• How do we perform authentication?
• Authenticated payload
  – Uniform authentication mechanism *per payload format*
• Authenticated transport
  – SAP is payload independent, this allows us to authenticate
    the sender of any form of announcement
    • ...and prevent spoofing of deletion messages...
• Proposal: include authentication in SAP, separate
dev development of payload authentication if desired.
What next?

- Resolve authentication issues
- A new working group last call, for experimental