

Session Announcement Protocol

Colin Perkins

University College London

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 development of payload authentication if desired.

What next?

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