Proposal for Backwards Compatibility between Session-ID Versions

draft-polk-insipid-bkwds-compatibility-proposal-03

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Agenda

• Propose a solution for Backwards Compatibility
• Are there any alternatives?
Purpose of this Separate Draft

• Putting an indication in to identify which version transmitter *and* receiver is
  – ...without adding new code to one version

• The Alternatives
  – Add a new option tag or two
  – Add a new Contact header feature tag or two
First: the Alternatives

• Having a new Option tag(s)
  – Option tags are to determine remote UA’s support for SIP extensions
    • Looking at this from wrong direction
    • Won’t work if kaplan implementations don’t write new code
      – Which isn’t expected

• Having a new Contact header feature tag(s)
  – Can’t be used in MESSAGE method SIP requests
    • Which seems unacceptable
The Challenges to Backwards Compatibility

• Hindered by the fact that we cannot expect any new kaplan indication
• Also hindered by the fact that kaplan implementations merely copy the contents of the header-value, and not always just sending out 1 UUID.
  – This was the impression the WG was lead to
  – Or, at least, this wasn’t clear to the WG
• We don’t exactly know how any/all kaplan implementations behave
Current Session-ID solution

Alice Jones                                      Bob Jones

INVITE
Session-ID: aeffa652b22911dafa81f12313a006823

200 OK
Session-ID: bellafc8b22911df86c412313a006823;
remote=aeffa652b22911dafa81f12313a006823

ACK
Session-ID: aeffa652b22911dafa81f12313a006823;
remote=bellafc8b22911df86c412313a006823
Current Conundrum with Session-ID Mismatch I

Alice Jones                                     Bob Kaplan

INVITE
Session-ID: aeffa652b22911dfe81f12313a006823

200 OK
Session-ID: aeffa652b22911dfe81f12313a006823

ACK
Session-ID: aeffa652b22911dfe81f12313a006823;
Current Conundrum with Session-ID Mismatch II

Alice Jones                                     Bob Kaplan

INVITE
Session-ID: be11afc8b22911df86c412313a006823

200 OK
Session-ID: aeffa652b22911dfa81f12313a006823;
remote=be11afc8b22911df86c412313a006823

ACK
Session-ID: aeffa652b22911dfa81f12313a006823;
remote=be11afc8b22911df86c412313a006823
Proposal: keep within the Session-ID header

Alice Jones

Bob Kaplan

INVITE
Session-ID: aeffa652b22911d6a81f12313a006823;
    remote=0000000000000000000000000000000000

200 OK
Session-ID: aeffa652b22911d6a81f12313a006823;
    remote=0000000000000000000000000000000000

ACK
Session-ID: aeffa652b22911d6a81f12313a006823;
    remote=0000000000000000000000000000000000
Proposal: keep within the Session-ID header II

Alice Jones

Bob Kaplan

INVITE

Session-ID: bellafc8b22911df86c412313a006823

200 OK

Session-ID: bellafc8b22911df86c412313a006823;
remote=0000000000000000000000000000000000000000000000

ACK

Session-ID: bellafc8b22911df86c412313a006823;
remote=000000000000000000000000000000000000000000000
Proposal: works with transfer

• Alice Jones, the transferee, merely propagates

Session-ID: aeffa652b22911d81f12313a006823;
remote=00000000000000000000000000000000

to any Carol
  – Knowing that Carol Jones will see the null field and switch it with her UUID

• Bob Kaplan, the transferee, merely propagates

Session-ID: be11afc8b22911df86c412313a006823;
remote=00000000000000000000000000000000

to any Carol
  – Knowing that Carol Kaplan will merely mirror value back to Bob Kaplan
Next Steps

• Iron out in (before?) London

• ... eventually meet in Hawai’i ...