

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: aeffa652b22911dfa81f12313a006823

200 OK

Session-ID: be11afc8b22911df86c412313a006823;
remote=aeffa652b22911dfa81f12313a006823

ACK

Session-ID: aeffa652b22911dfa81f12313a006823;
remote=be11afc8b22911df86c412313a006823

Current Conundrum with Session-ID Mismatch I

Alice Jones

Bob Kaplan

INVITE

Session-ID: aeffa652b22911dfa81f12313a006823

200 OK

Session-ID: aeffa652b22911dfa81f12313a006823

ACK

Session-ID: aeffa652b22911dfa81f12313a006823;

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 I

Alice Jones

Bob Kaplan

INVITE

Session-ID: aeffa652b22911dfa81f12313a006823;
remote=0000000000000000000000000000000000000000

200 OK

Session-ID: aeffa652b22911dfa81f12313a006823;
remote=0000000000000000000000000000000000000000

ACK

Session-ID: aeffa652b22911dfa81f12313a006823;
remote=0000000000000000000000000000000000000000

Proposal: keep within the Session-ID header II

Alice Jones

Bob Kaplan

INVITE

Session-ID: be11afc8b22911df86c412313a006823

200 OK

Session-ID: be11afc8b22911df86c412313a006823;
remote=0000000000000000000000000000000000000000

ACK

Session-ID: be11afc8b22911df86c412313a006823;
remote=0000000000000000000000000000000000000000

Proposal: works with transfer

- Alice Jones, the transferee, merely propagates

```
Session-ID: aeffa652b22911dfa81f12313a006823;  
           remote=000000000000000000000000000000000000
```

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=000000000000000000000000000000000000
```

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 ...