Is Session-ID for Debugging or for Features?

(i.e., do we need a Session-ID for Session-ID?)

draft-kaplan-dispatch-session-id-03
Annex-A

Use-cases

- Many people want something to help correlate SIP messages/trans/dialogs for debugging/monitoring/logging
- But also for active referencing/matching at the SIP protocol layer
 - Refer-To, Join, Replaces cases
 - Parallel fork matching
 - Hair-pinned call matching
 - Etc.

Problem #1

- Given any arbitrary # of B2BUAs, if an outof-dialog SIP request reaches a B2BUA, how do we know the request is really for *that* particular B2BUA?
 - Today, Call-ID/tags wouldn't match it's an error
 - With Session-ID, it's not an error, but maybe it should be

The Resource-List case

```
INVITE
 |callid:1a |callid:1b |callid:1c |callid:1d
 ----->|----->|
 |sessid:1 |sessid:1 |sessid:1 |sessid:1
 |INVITE |re-INVITE
 |callid:2a |callid:1b
 ---->|---->|
 |sessid:2 |sessid:1 |re-INVITE
 |RL<sessid:1>|
                 |callid:1c |callid:1d
                 |---->|---->|
                 |sessid:1 |sessid:1
```

- Second INVITE has a Resource-List of first INVITE session, causing AS1 to re-INVITE
- What happens if the second INVITE hits AS2 first, instead?

The Hair-pinned/Loop Call Case

- Some people have proposed using Session-ID to detect a call loop
 - What if they were wrong, it's just a legit spiral
- Some people have proposed using Session-ID to detect hair-pins, to undo media relaying
 - What if they're wrong, the media really does need to follow the hair-pin path due to transcoding, or recording, or whatever

How would they fix such errors?

- If a deployment incorrectly uses Session-ID as described, what will be done?
 - Answer: the SBC will change the Session-ID value, so that the other boxes don't see them as matching
- But then we lose the benefit of correlation for troubleshooting
 - Back to square-1

A straw-man proposal

- Separate debugging/troubleshooting from everything else
 - Make it a "Log-ID" or some such, with a new value similar but not identical to Session-ID
 - Let "Session-ID" try its best, but at least when it fails we have a Log-ID to troubleshoot it with