

IETF 64 SIP WG

draft-elwell-sip-connected-identity-
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Background

- Authenticated response identity not feasible for reasons elaborated in past
- For a dialog, would be possible to authenticate the sender identity for a request in reverse direction
- Authenticated identity of callee has more value in case of a dialog
 - For non-dialog forming request the transaction is over when response arrives

Summary of proposal

- New header Connected-URI to convey sender identity for request in reverse direction
 - Can also be included in dialog-forming response, but without authentication
- New header Connected-Identity for authentication and integrity protection
 - Similar to Identity, but signed fragment includes Connected-URI
- Can also use for change of connected identity during dialog (e.g., transfer in PSTN)

Alternative

- Changing From / To header field URIs
 - Not compatible with RFC 2543
 - But RFC 3261 makes provision for this to change in future – is now the time?
 - Could change From header field URI on a mid-dialog request and use Identity header unchanged
 - Could change To header field URI on a response (but without authentication)
 - Much simpler

The “do nothing” option

- Could use INVITE / Replaces on INVITE-initiated dialog to change connected identity – some limitations
 - No normative specification at present covering fate of existing session – how to carry it forward to new dialog without renegotiating NAT traversal, security, etc.
 - INVITE-initiated dialogs only
 - Not suitable for early dialogs
 - More messages (5 including ACK and BYE)

How to proceed?

- Which option?
 1. Connected-URI and Connected-Identity as proposed in this draft
 2. Permit To/From header field URIs to change
 3. Do nothing
- If 1 chosen, is the option tag useful?
- If 2 or 3 chosen – how to document it?