# draft-peterson-stir-rfc4196-update-03
Connected Identity

STIR WG IETF **110** Virtual

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Revisiting RFC4916

- The "connected identity" draft, update to RFC4916
  - How to make Identity work in the backwards direction, since it can't work for responses
  - Covers mid-dialog and dialog-terminating requests
    - Classic use case is UPDATE in the backwards direction before 200 OK: telling you who you actually reached
- Leveraging STIR to close security vulnerabilities
  - Route hijacking
    - I tried to call my bank, by an attacker somehow interposed
  - "Short stopping" and similar attacks
    - Intermediary networks forging BYE in one direction while the call proceeds in another
  - sipbrandy (RFC8862) needs it
- This does take STIR past the threat model of RFC7375

STIR Backwards
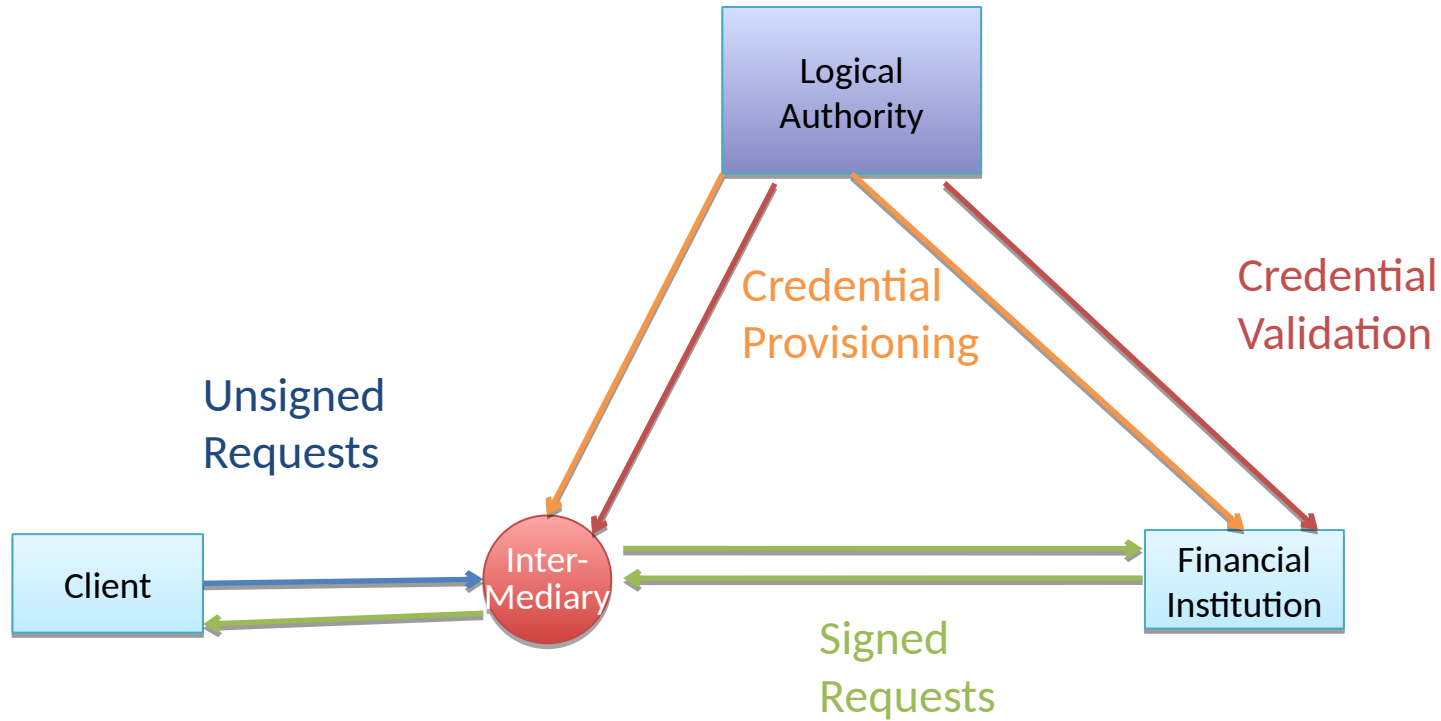
Did I actually reach the bank?

What's new in this version

- Details on use of connected identity in provisional dialogs
  - Require for 100rel
- Separate discussion of mid-dialog and dialog-terminating requests
  - Why we can't make this work for CANCEL
- Interaction with "div" ppt's
  - Should we return "div"s with Identity in the backwards direction?
    - Could let callers know why their call reached an unanticipated destination
    - Some concerns about revealing forwarding logic… problematic?

Still to do

- Revised examples
- Any actual normative revisions to RFC4916
  - Elimination of the Identity-Info header, etc.
  - (should this be a bis?)
- Flesh out more a pre-call connected identity approach
  - Could be deferred to another draft, even

Next Steps

- Still plenty to do here
  - But we think we need this, for a variety of use cases

- Recharter needed?

- Adoption?