Outbound-11

Rohan Mahy
rohan@ekabal.com
Changes

• Merged keep-stun and keep-crlf into ‘keep’
• Removed mention of TCP Keepalive.
• Fixed usage of option-tags
  – UAC and Registrar always include outbound in Supported. Require is included in registrar response where outbound processing is being applied. UAC can include Require: outbound in a REGISTER if it likes.
• UAC can request a flow token (for a dialog) via dialog-forming request that contains an ‘ob’ parameter in the Contact.
• Lots of rewording text. Hopefully easier to read, but still pretty dense.
Open Issues #1

• Today GRUU says you invalidate GRUU if the Call-ID in the register is different from the last one registered. Either:
  – 1) All flows from one instance need to register with the same Call-ID
  – 2) GRUU should check that an incoming REGISTER matches any Call-ID already registered by this instance.

• Proposal: option 2
Open Issue #2

• What error does the registrar send if it receives a REGISTER with Require: outbound, but the edge proxy doesn’t support outbound?
  – 420 is wrong
  – 400 is not very helpful
  – Don’t do that? (Require: outbound in a request)
  – Precondition failed?
  – New response code?
Open Issue #3

- Alice registers with outbound. Bob sends an INVITE to Alice. How does the Alice get Bob’s subsequent in-dialog requests?
- Today Alice’s first hop Record-Routes on her “outgoing” dialog-forming requests.
- Proposal: first hop proxy for Alice adds Record-Routes incoming dialog-forming requests if the top Route header has an ‘ob’ parameter (which will be presence because it put the ‘ob’ parameter in the first Path header).
Open Issue #4a

• Today the first hop MUST implement both keepalive types to be compliant
• Why do we still need the ‘keep’ parameter at all in the normal case when the client detects outbound registration? The UAC could just start sending keepalives then.
• Possibilities
  – leave draft alone: but those parameters are ugly
  – keep the parameter for non-outbound uses of keepalives, but don’t use it for outbound
  – deprecate the parameter: is it still needed?
Open Issue #4b

• Proposal from Aki to replace the timed-keepalive parameter with a new header.
  – Flow-Timer: 120

• Returned in REGISTER response, indicates how often the UAC needs to send keepalives, otherwise the first hop could declare the flow dead.
  – Default of Flow-Timer: 0 means server supports keepalives, but client can pick its own timers
Open Issue #5

• Some folks want to do outbound-style keepalives without doing outbound.
• How does server find out client can do keepalives (ex: so it can use longer registration intervals)?
• Proposal: separate “keepalive” option-tag. UAC puts this in the Supported header.
• How does client find out server can do keepalives?
  – either ‘keep’ URI parameter, or Aki’s new header
• Do we care about this use case?
Misc small stuff

• Need to rewrite a complete example
• Still a lot of room for rewording the text

• Various typos and spelling missteaks

• Process:
  – François Audet will be our Project Manager / Shepherd to try to keep us on track for timely next version