

Outbound-11

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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 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