

ICE "Passive-Aggressive" Nomination

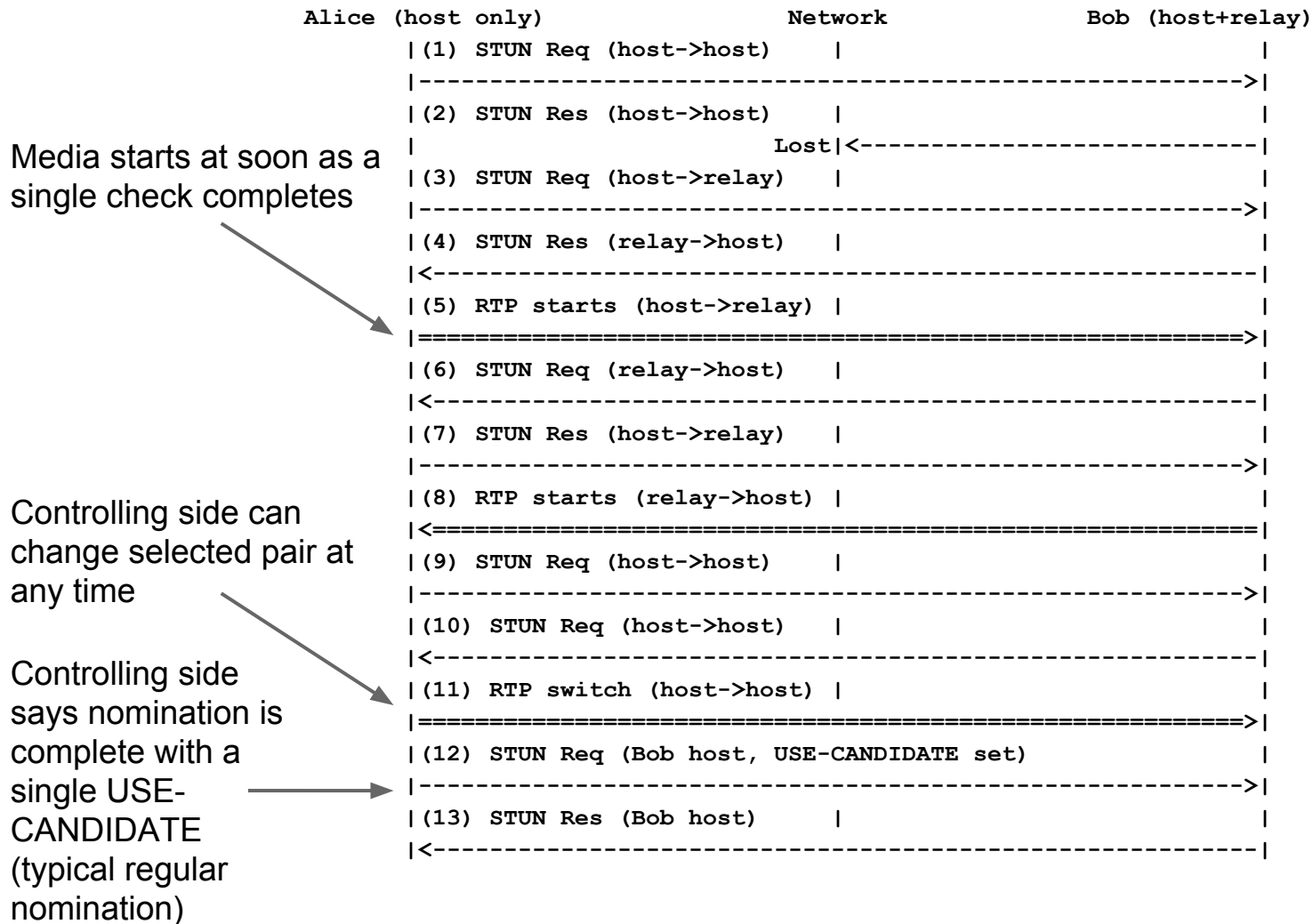
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Overview

Passive-Aggressive Nomination

- Slight tweak to regular nomination; deprecates aggressive nomination
- Can send media as soon as a single check succeeds (*like aggressive*)
- Controlling side has full discretion on which pair is used (*like regular*)
- Controlled side knows when nomination is complete (*like regular*)

Example



Backwards Compatible

- Legal regular nom behavior [RFC5245, p69]
- All ICE endpoints need to support regular nomination (e.g. ice-lite)
- Nonconformant endpoint behavior: no worse than regular nomination
 - i.e. media not sent/played out until USE-CANDIDATE

Proposal

- Codify this behavior into ICE-bis as the new way of doing regular nomination
- When controlling:
 - MUST use regular (passive-aggressive) nomination
 - MUST send media once a check succeeds
 - MUST NOT use aggressive nomination
- When controlled:
 - MUST send media once a check succeeds
 - MUST mirror media path chosen by controlling side (works for regular and aggressive peers)
- Suggest that we NOT negotiate this behavior; revisit if we find problems

Next Steps

- Conclusion from IETF 92 was that this looked promising
- Agreed to solicit alternate proposals and decide at IETF 93 how to proceed
- Here we are :-)