

# **ICE "Passive-Aggressive" Nomination**

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# Overview

## Passive-Aggressive Nomination

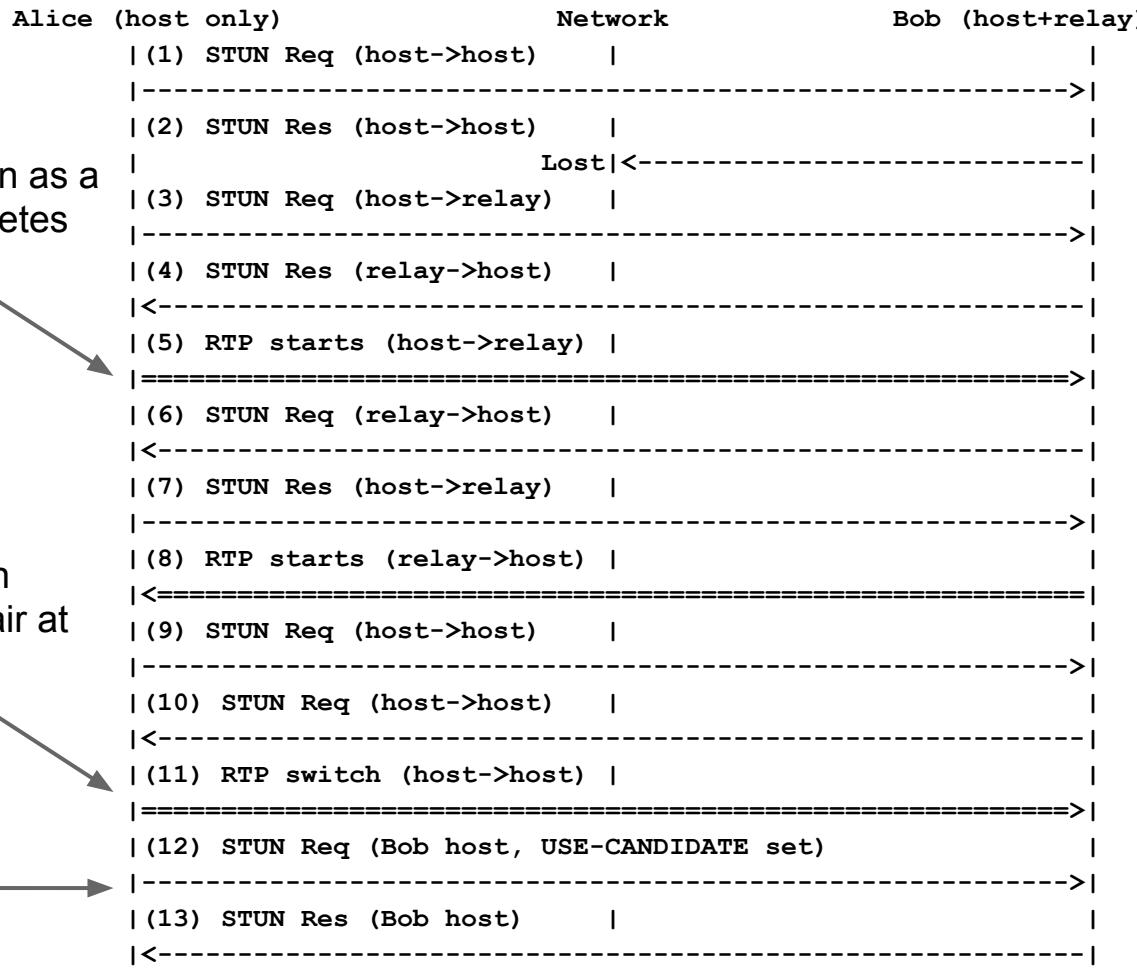
- Slight tweak to regular nomination; deprecates aggressive nomination
- Can send media as soon as a single check succeeds (*like aggressive*)
- Controlling side has full discretion on which pair is used (*like regular*)
- Controlled side knows when nomination is complete (*like regular*)

# Example

Media starts at soon as a single check completes

Controlling side can change selected pair at any time

Controlling side says nomination is complete with a single USE-CANDIDATE (typical regular nomination)



# 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 :-)