

MMUSIC

Happy Eyeballs Extension for ICE

draft-reddy-mmusic-ice-happy-eyeballs-03

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Authors: Tiru Reddy, Prashanth Patil, Dan Wing

Presenter : Pal-Erik Martinsen

Draft Update

- candidates are prioritized per ICE, then:
 - a) If the first N candidates are same IP address family, next candidate of other IP address family is promoted to $N+1$
 - b) Repeat (a) for $N*2$, $N*3$, ...
 - c) Assign new priorities to the candidates in the list. (Priority can be random, but must increase)

Happy Eyeballs ICE, $N=3$

ICE (RFC 5245)

IPv6 Host Candidate-1
IPv6 Host Candidate-2
IPv6 Host Candidate-3
IPv6 Host Candidate-4
IPv6 Host Candidate-5
IPv6 Host Candidate-6
IPv6 Host Candidate-7
IPv6 Host Candidate-8
IPv4 Host Candidate
IPv6 Server Reflexive Candidate
IPv4 Server Reflexive Candidate
IPv6 Relayed Candidate
IPv4 Relayed Candidate

Happy Eyeballs for ICE

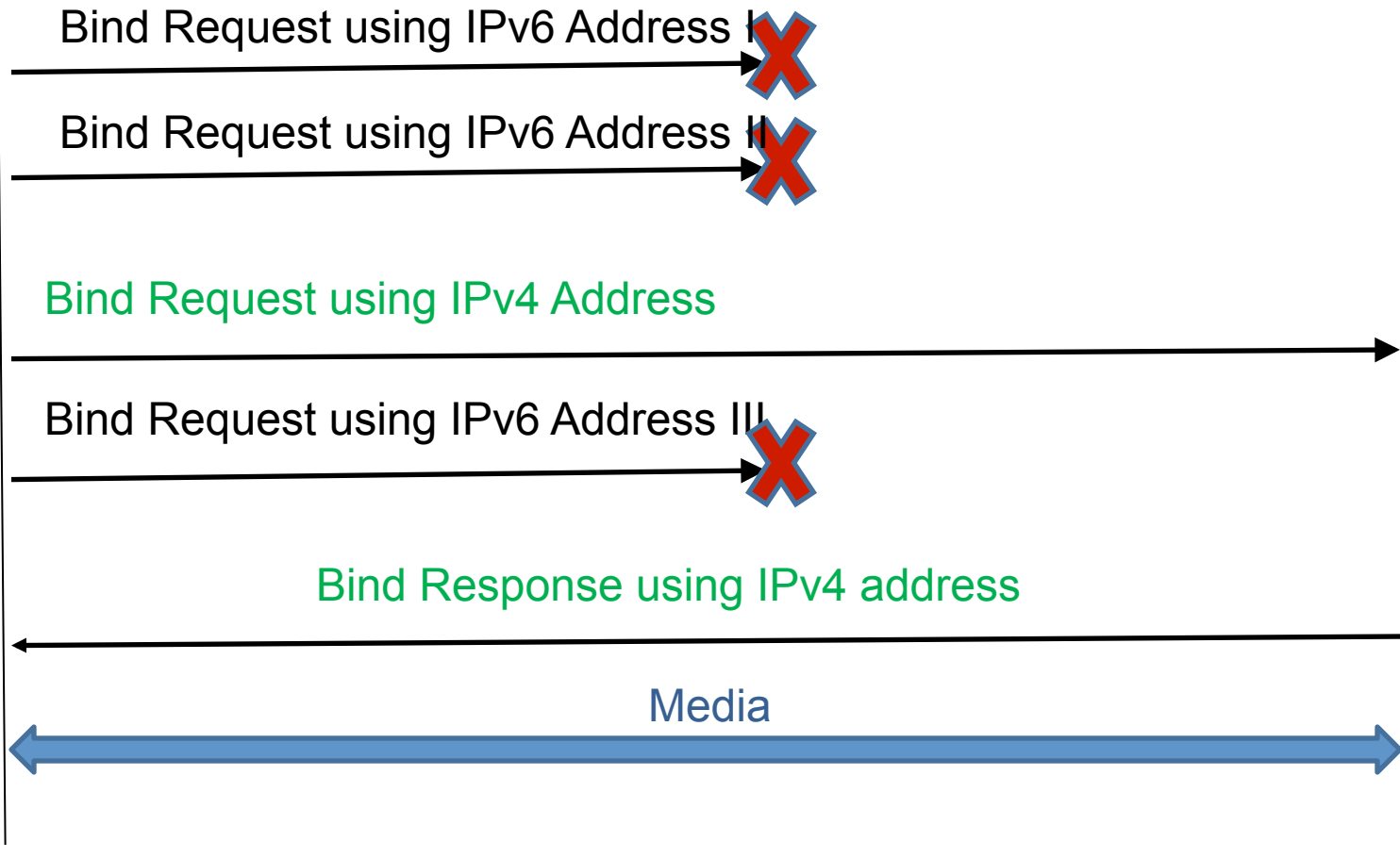
IPv6 Host Candidate-1
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IPv4 Host Candidate
IPv6 Host Candidate-4
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IPv6 Host Candidate-8
IPv6 Server Reflexive Candidate
IPv4 Relayed Candidate
IPv6 Relayed Candidate

New candidate priority values will be assigned according to placement in list (Randomly increasing values?)

Improved behavior with broken IPv6 path

Alice

Bob



Comments / Feedback ?