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Locating SIP Servers in a Dual-Stack IP Network

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Problem to Solve

- The core SIP RFCs are written for both IPv4 and IPv6
- The issue is that dual-stack deployments aren't as cleanly handled
- RFC 6157 handles IPv6 transition, but doesn't solve Happy Eyeballs. In fact, it hints at it as a problem.
- As discussed extensively on the list, RFC 3263 is not clear on DNS procedures in dual-stack networks
- Happy eyeballs-like problem in SIP [64*T I retry - default 32 sec.]

Proposal

- Address narrowly scoped problem of DNS SRV record look-ups of SIP servers in dual-stack environments.
- Address two issues:
 - Clarify and provide BCP guidance for DNS look-up procedures in dual stack networks to adhere to Happy-Eyeballs algorithm
 - Document usage of DNS SRV records to indicate server preference of address family

Scope of Work and Next Steps

- SIPCORE milestone proposed on the list:

June 2014 Request publication of Happy Eyeballs procedures for handling of SIP URIs

- draft-johansson-sip-dual-stack submitted as candidate document as a starting point to address this milestone
- Can we adopt as WG item?



Thanks!!