

# Dual Stack Hosts Using "Bump-In-the-Host" (BIH)

**draft-ietf-behave-v4v6-bih-03**

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# Changes since IETF#79 but before WGLC

- Significant editorial cleanup – thank you Dave
- Many functional clarifications (to translator function, to extension name resolver, to mapper function, added exclusion sets, and others)
- Support for DNSSEC now described
- Rewording scoping and IETF recommendation text in the Introduction section, i.e.  
*Use of BIH together with a NAT64 is NOT RECOMMENDED as a competing technology for tunneling based transition solutions.*
- Tuning of examples to make functionality clearer

# Comments during ongoing WGLC

- Implicit binding of sockets needs clarification
  - Addresses of explicitly bound sockets must not change
- Potential conflict of synthesized destination addresses with possible real destination addresses need to be documented
- Translation of IPv4 packets sent to the address range used for local IPv4 address synthesis should be translated only when the address mapper has corresponding entry
- Secondary source addresses needs to be added <sup>3</sup>

# Comments during ongoing WGLC

- References to better mapping table entry clean-up techniques needs to be added
  - Example of application (e.g. Browsers) that requires keeping of the mapping entries longer than corresponding DNS time-to-live indicated is needed
  - To RFC2663, maybe RFC4787/5382/5508

# Next steps

Wait for WGLC to complete and update document according to comments.

Please review and comment.