
Plans for RFC5206bis End-host mobility and multihoming

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RFC5206 scope

- In scope:
 - Messaging and elements of procedure for HIP mobility
 - LOCATOR parameter
- Out of scope:
 - NAT traversal
 - Detailed procedures for end-host multihoming
 - initial reachability of a mobile host
 - location privacy
 - simultaneous mobility of both hosts
 - localized mobility management
 - mobile routers
 - transport triggers
 - cross-family handovers

Developments since RFC5206

1) NAT traversal draft (RFC-to-be):

<http://tools.ietf.org/html/draft-ietf-hip-nat-traversal-09>

2) mobility management aspects of NAT traversal:

<http://tools.ietf.org/html/draft-melen-hip-nat-mm-00>

3) cross-family handovers

4) shim6 has published RFC 5334 (failure detection and locator pair exploration)

5) Mobile router draft

<http://tools.ietf.org/html/draft-melen-hip-mr-02>

Roadmap

- Keep current scope largely intact
- Leave NAT traversal and multihoming for “HIP Part 2” work
- Add some mobility features for robustness; e.g.
 - cross-family handover
 - double-jump mobility

Roadmap (cont.)

- Implementation experience: Changes to align with NAT traversal and simplify specs
 - Anticipate future NAT traversal extensions
 - Consider to reduce some options that may add complexity
- Editorial: Document organization and nomenclature can be improved
 - Many suggestions recently received, to be discussed on the list