HIP mobility and multihoming update (draft-ietf-hip-mm-02.txt)

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draft status overview

Main changes since version -01

- 1. Aligned with ESP and base specs
- 2. Address checks of new addresses are now mandatory
 - For security purposes
- 3. Security section contributed by Greg Perkins with review by Pekka and Christian

draft status overview (cont.)

Main changes since version -01

- 4. Credit-Based Authorization for new addresses
 - draft by C. Vogt at IETF-62
 - allows new addresses to be rapidly used
 - prevents amplification attacks by limiting data sent to unverified addresses
- 5. Reorganized based on RFC 4101 guidance
 - how to write protocol models to make IESG reviewers happy :)

Open issues

- LOCATOR parameter semantics
 - implicit or explicit removal of addresses?
 - (or, soft vs. hard state)
- More implementation experience needed
 - support in public HIP implementations has not tracked drafts
- (review piuha.net list)
- WG Last Call in November timeframe?

Backup

HIP working group

HIP mobility management



Similar, but more complicated, procedures for multihoming

New LOCATOR parameter



Draft dependencies



Scope of multihoming material reduced

- Intent is to specify <u>mechanism</u> for host multihoming, but leave <u>policy and procedures</u> for later
 - Can experiment with LOCATOR to convey additional addresses
 - However, do not discuss topics such as:
 - selecting preferred source and destination addresses
 - managing lots of SAs simultaneously between different pairs of locators
 - load balancing across addresses
 - updating keying material/SAs for some subset of active SAs, etc.