Problem Statement: HA Reliability

draft-jfaizan-mipv6-ha-reliability-01.txt

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Problem Statement

- ## Home Agent failure
  - HA failure
  - Home link failure

- ## Delayed Failure Detection
  - With current Mobile IPv6 spec, failure detection could take a long time
    - Entire burden on mobile node
  - Service interruption

- ## Failure Recovery
  - Who initiates recovery?
    - MN/HA?
  - Possible endless loop in case of single HA
  - Service interruption during recovery process

Problem Statement

- ## IPsec Security Associations
  - Need to be re-established
  - Dynamic Keying
    - Allows re-keying
  - Manual Keying
    - not flexible

- ## Correct Ordering
  - Introduce security vulnerabilities.

- ## Load balancing
  - Needed for efficient service utilization

Why we should consider this draft?

- We should have the problem defined before the solutions are proposed.

- The draft formulates all the related problems and proposes some solution guidelines

- List of solution drafts
  - draft-wakikawa-mip6-nemo-haha-01.txt (presentation at the 58th IETF)
  - draft-deng-mip6-ha-loadbalance-00.txt
  - draft-jfaizan-mipv6-vhar-01.txt

Questions?