

# Design of the MOBIKE Protocol

<draft-ietf-mobike-design-03.txt>

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# Current Status

- Changes incorporated throughout the document.
- [http://www.tschofenig.com/TEMP/Diff\\_draft-ietf-mobike-design-02\\_txt-draft-ietf-mobike-design-03\\_txt.htm](http://www.tschofenig.com/TEMP/Diff_draft-ietf-mobike-design-02_txt-draft-ietf-mobike-design-03_txt.htm)

# Missing Pieces

- Selecting addresses (issue # 20)
- More details in the security consideration section
- Maybe need to add design rational for some issues that arise during the protocol discussions

## Examples

- Adding version number to MOBIKE\_SUPPORTED (issue#35)
- Security and path testing (issue#27)
- Mostly about improving readability

# Document Structure

- Introduction
  - Terminology
  - Scenarios
  - Framework
  - Design Considerations
    - Indicating Support for MOBIKE
    - Changing a Preferred Address and Multi-homing Support
    - Simultaneous Movements
    - NAT Traversal
    - Changing addresses or changing the paths
    - Return Routability Tests
    - Employing MOBIKE results in other protocols
    - Scope of SA changes
    - Zero Address Set
    - IPsec Tunnel or Transport Mode
    - Message Representation
  - Security Considerations
- Introduction
  - Simplified Scenarios
  - Design considerations
    - Choosing addresses
      - Inputs and triggers
      - Connectivity
      - Discovering connectivity
      - Symmetry in decision making vs. asymmetry in decisions
      - Suggested approach
    - NAT Traversal
      - Background and constraints
      - Fundamental restrictions
      - Initiator behind a NAT
      - Responder behind static-NAT
      - Responder behind NAT
      - Suggested approach
    - Scope of SA changes
    - Zero address set functionality
    - Threats
    - Return routability test
  - Protocol detail issues
    - Indicating support for mobike
    - Window size
    - Message presentation
  - Security Considerations

# Next Steps

- Discuss text proposals among the authors
- Text proposals to the mailing list within the next two weeks
- Next draft submission after feedback on mailing list