



# GRE Key Extension for Mobile IPv4

draft-ietf-mip4-gre-key-extension-01.txt

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**Jul 29, 2010**

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# [ Status ]

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- Updated based on review comments posted by Pete McCann and Simon Mizikovsky

# Version 1 Changes (1 of 2)

- Clarified "What does it mean for home networks to be overlaid?"
  - "GRE tunneling with the Key field allows the operators to have private home networks that consist of multiple Virtual Private Networks (VPNs), which may have overlapping home addresses."
- Added "The presence of this extension is a request for GRE encapsulation that takes precedence over the setting of the 'G' bit in the Registration Request. FA **MUST NOT** modify the 'G' bit in the Registration Request because it is covered by the Mobile-Home Authentication Extension."
- If the HA receives the GRE Key Extension in a Registration Request and does not recognize this non-skippable extension, it **MUST** silently discard the message per [RFC3344].

# [ Version 1 Changes (2 of 2) ]

- Corrected error codes and converted them from hex values to decimal values
- Format of extension changed to long format (non-skippable)
- Clarified that GRE Key extension has little to do with security
- Editorial comments are resolved

# Discussions

- Suggestion: "If MN does not set the G-bit, the FA MUST NOT add the GRE-Key extension."  
BUT ..
  - Backward compatibility issue with unset G-bit (i.e. cannot force MN to set G-bit in request)
  - FA-HA tunnel type is not relevant to MN in this case - allow FA to override
- Related to above: Use of non-skipping extension requires support by HA to avoid silent discard of request
  - Since Home Address may overlap, GRE Key setup is required for registration
- Others?



## Next Step

- Identify any outstanding issues encountered in WG discussions and resolve them
- Ready to complete WG Last Call?