

# AAA-based Handover Keys

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Vijay Devarapalli ([vijay@wichorus.com](mailto:vijay@wichorus.com))

Stefano Faccin ([smfaccin@marvel.com](mailto:smfaccin@marvel.com))

# Current status

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- ❑ FMIPv6 requires a shared key between the PAR and the mobile node for securing FBU/FBAck signaling
- ❑ A SeND based solution for setting up a security association between the mobile node and the access router has already been standardized
- ❑ We have a charter item to work on a AAA-based solution for setting up the security association

# SeND-based FMIPv6 Security

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- ☐ Requires the deployment of SeND in the access network
- ☐ May not be a feasible solution for many access networks

# AAA-based Handover Key solutions

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- There are three proposals
- Derive a MN-AR key from a HOKEY USRK
- Develop a Key Management Protocol as described in draft-vidya-mipshop-handover-keys-aaa
  - Assumes a shared key between the MN and the handover key server (presumably AAA server)
- Derive a FMIPv6-specific key assuming a shared key between the between the MN and the NAS
  - Described in draft-yegin-fmip-sa

# FMIPv6 Security

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- ❑ It looks unlikely that any of these solutions get used with FMIPv6
- ❑ Expect the SDOs to use access specific mechanisms to secure MN-AR signaling
- ❑ Too little information to pick one of the solutions for Proposed Standard status

# Next Steps for AAA-based Handover keys

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- ❑ Write an Informational document that says the AAA infrastructure can be used for setting up MN-AR security associations
- ❑ Gives the impression that SeND is not the only solution
- ❑ Will refer to the existing solution documents for possible solutions
  - The existing solution documents will not be standardized
- ❑ We can develop a solution later
  - If there is a sufficient interest in a particular solution
  - Or if a AAA-based security solution actually gets deployed with FMIPv6