RFC 5448bis
EAP-AKA’ Update

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draft-ietf-emu-rfc5448bis-01.txt
Background

EAP-AKA (RFC 4187) & revised EAP-AKA’ (RFC 5448)

These have been very widely implemented, somewhat widely used for WLAN access authentication

- 2/3/4G access uses native SIM card and AKA, not EAP
- 5G access authentication introduces the use of EAP for 5G access
The Update

• Updates are bugs in the current specification, missed items or security considerations, or specifying behaviour for new situations introduced in 5G
  
  • Network name bindings specified for 5G
  
  • Identifier usage specified for 5G
  
  • Include a definition of exported parameters as required by RFC 5247
  
  • References updated to newer 3GPP and NIST specifications
Identifier Usage

• Previously this was clear for all cases — use the name that was sent; clarity is important since identifiers are used in KDF

• With 5G, this changes for two reasons:
  
  • The EAP session is inside the native 5G network attachment procedure which does not use EAP identity request & response
  
  • In 5G, there are two distinct identifiers for users, the permanent, private one (SUPI) which is never sent, and a temporary one that can be sent over the wire (SUCI)
  
• When network name begins with 5G, use SUPI for key generation; otherwise behave exactly as RFC 5448 specified
Version -00

• Simply introduced the document as WG document
Version -01

- Updates relationship to RFC 4187
- Clarifies language relating to obsoleting RFC 5448
- Updates several references to newer ones
- Specifies what identifiers should be used in key derivation formula in 5G
- Specifies how to construct the network name in 5G
Next Steps

• Give us feedback & discuss!

• Ongoing coordination with 3GPP, but we believe this version of draft is in sync with current 3GPP Release 15 specifications

• Proceed?