GBA_ME/GBA_U scenarios in UE att S3-040536 COMMENTED/REVISED BY AXALTO

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Discussion

Reasoning:

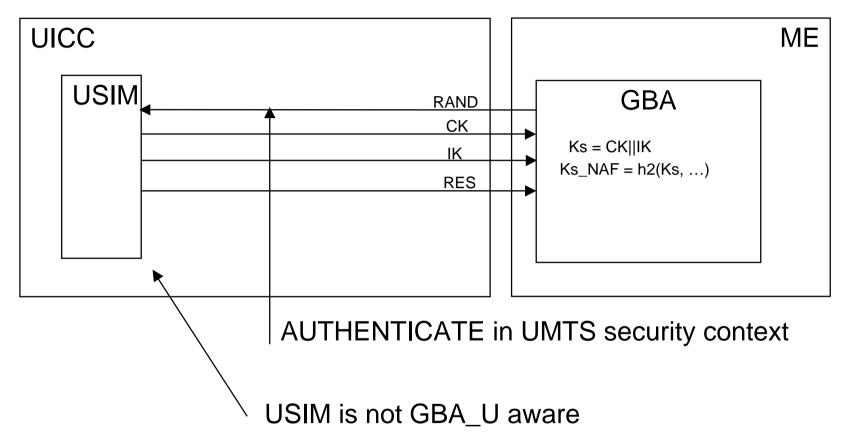
- Clarify key derivation
- Harmonize key derivation between GBA_ME and GBA_U
- All GBA ME shall be GBA_U aware

GBA_U functionality in the UICC can be (this is T3 issue):

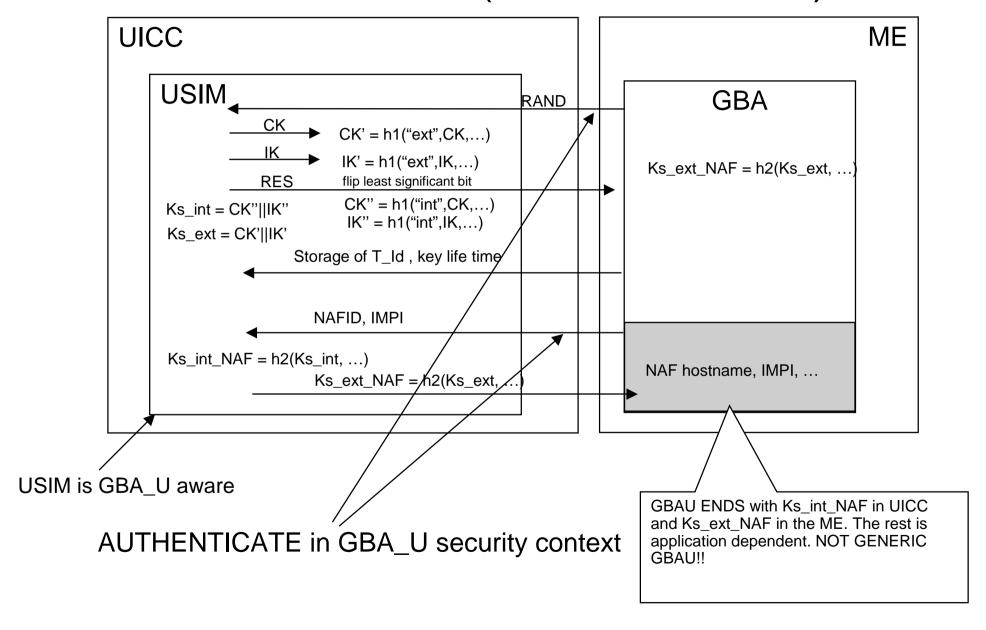
- A new GBA_U security context of AUTHENTICATE command (as approved for VGCS)
- GBA_U capabilities will be announced in USIM/ISIM service table.

Following slides describe the procedures between different components when UICC application is either GBA_U aware or not.

GBA_ME

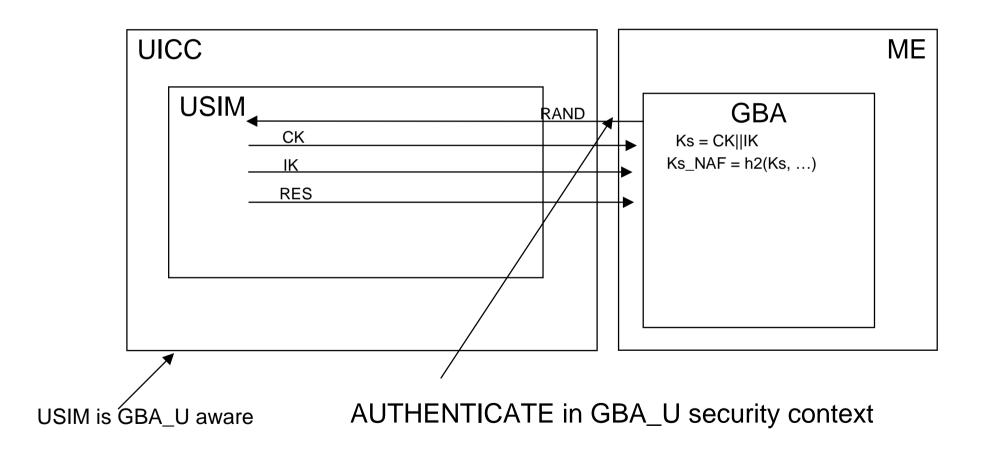


GBA_U USIM (with GBA_U AV)



GBA_U USIM (with non GBA_U AV)

this scenario is needed if BSF does not support GBA_U AV retrieval/generation
This is however not suitable. BSF should send GBA_U AV to USIM GBA_U capable
(based in subscription information) (from the NAF perspective Ks_ext_NAF = Ks_NAF)
see S3-040475 / 6



Conclusions

- There are no advantages in not supporting GBA_U.
- The cost/implementation work for implementing GBA_U is minimal if ME support GBA_ME. (storage of B-TID + Key Life time and a second call for Ks_ext_NAF and Ks_int_NAF generation)
- Last scenario (slide 5) could be avoided if GBA_U AV modification is done at BSF level.
- GBA ME shall support both GBA_ME and GBA_U UICC interfaces.