Other comments: #

St Paul's Bay, Maita, October 5-8, 2004											
CHANGE REQUEST											
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For <u>HELP</u> on u	ısing tl	nis for	m, see	e bottom o	f this pag	e or loo	k at th	e pop-up te	ext over	rthe <mark>≭</mark> syr	mbols.
Proposed change affects: UICC apps X ME X Radio Access Network Core Network X											
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Source:	Nok	ia, Sa	<mark>msun</mark> (	g Electroni	cs						
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#### ==== BEGIN CHANGE =====

# Annex D (normative): UICC-ME interface for GBA\_U

This section describes the UICC-ME interface to be used when a GBA\_U aware UICC application is active and the ME is involved in a GBA bootstrapping procedure. When the UICC application is not GBA\_U aware, the ME uses the AUTHENTICATE command in non-GBA\_U security context (i.e. UMTS security context in case of USIM application and IMS security context in case of the ISIM) as defined in 3GPP TS 31.102 [tba] and 3GPP TS 31.103 [tba].

# D.1 GBA\_U bootstrapping procedure

This procedure is part of the Bootstrapping procedure as described in section 5.3.2

The ME sends RAND and AUTN to the UICC and the UICC validates the AUTN. The UICC then performs the Ks int derivation as described in 5.3.2. The UICC stores Ks int. The UICC also stores the used RAND to identify the current bootstrapped values. RAND value in the UICC shall be further accessible by the ME.

The UICC sends RES', CK' and IK' to the ME.

NOTE: if the ME is GBA U unaware the procedure described in section is sufficient for the GBA ME based bootstrapping procedure. In order to complete the GBA\_U based bootstrapping procedure on the UICC, the initialization step described in subclause D.2 must be executed.

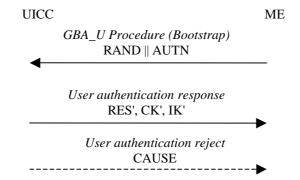


Figure D.1: GBA\_U/GBA\_ME bootstrapping procedure

## D.2 GBA\_U initialization procedure

This procedure is part of the procedures using bootstrapped security association as described in section 5.3.3

The ME stores the bootstrapping transaction identifier (B-TID) and key lifetime associated with the bootstrapped key Ks int in the UICC. The bootstrapping transaction identifier and key lifetime values in the UICC shall be further accessible by the ME.

At the end of the GBA\_U initialization procedure the UICC stores Ks\_int, B-TID, key lifetime and the RAND. A new bootstrapping procedure replaces Ks\_int, B-TID, key lifetime and RAND values of the previous bootstrapping procedure.

NOTE: The storing of B-TID and key lifetime to the UICC needs to be performed only once per bootstrapping procedure.



Figure D.2: GBA U initialization with B-TID and key lifetime on the UICC

## D.3 GBA\_U key derivation procedure

This procedure is part of the procedures using bootstrapped security association as described in section 5.3.3

The ME sends NAF ID and IMPI to the UICC. The UICC then performs Ks int NAF derivation as described in 5.3.2. The UICC uses the RAND and Ks\_int values stored from the previous bootstrapping procedure. The UICC stores Ks int NAF together with NAF Id.

NOTE: A GBA U bootstrapping procedure needs to be performed before the GBA U key derivation procedure.

If a Ks int is not available in the UICC, the command will answer with the appropriate error message.

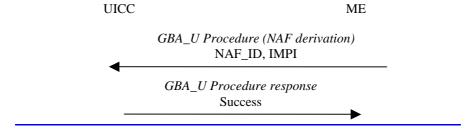


Figure D.3: GBA\_U key derivation procedure on the UICC

**===== END CHANGE =====**