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Source: SA WG3 (Security)

Title: CR to 33.220: Editorial corrections to TS 33.220 (Rel-6)

Document for: Approval

Agenda Item: 7.3.3

SA Doc number	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	SA WG3 Doc number	Workitem
SP-040379	33.220	005	-	Rel-6	Editorial corrections to TS 33.220	D	6.0.0	S3-040414	SEC1-SC

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CR-Form-v7

CHANGE REQUEST

⌘ **33.220** **CR** **005** ⌘**rev** **-** ⌘ Current version: **6.0.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [ ] Core Network [X]

Title:	⌘	Editorial corrections to TS 33.220
Source:	⌘	SA WG3
Work item code:	⌘	SEC1-SC
Date:	⌘	29/04/2004
Category:	⌘	**D**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	Some typo's and inaccuracies have been detected in TS 33.220
Summary of change:	⌘	Clean up some inaccuracies and remove abbreviation that is no longer used
Consequences if not approved:	⌘	Inaccuracies remain as well as an abbreviations that originates from a mechanism that was removed and that might confuse the reader.

Clauses affected:	⌘	4.5.3			
Other specs affected:	⌘	**Y**	**N**		⌘
			X	Other core specifications	
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

4.5.3 Procedures using bootstrapped Security Association

After UE is authenticated with the BSF, every time the UE wants to interact with an NAF the following steps are executed as depicted in figure 5.

UE starts communication over Ua interface with the NAF:

- in general, UE and NAF will not yet share the key(s) required to protect Ua interface. If they already do (i.e. if a key Ks_NAF for the corresponding key derivation parameter NAF_Id ~~–n~~ is already available),, the UE and the NAF can start to securely communicate right away. If the UE and the NAF do not yet share a key, the UE proceeds as follows:
  - if a key Ks is available in the UE, the UE derives the key Ks_NAF from Ks, as specified in clause 4.5.2;
  - if no key Ks is available in the UE, the UE first agrees on a new key Ks with the BSF over the Ub interface, and then proceeds to derive Ks_NAF;
- if the NAF shares a key with the UE, but an update of that key is needed, e.g. because the key's lifetime has expired, it shall send a suitable key update request to the UE and terminates the protocol used over Ua interface. The form of this indication may depend on the particular protocol used over Ua interface (cf. 4.5.1);
- the UE supplies the Transaction Identifier to the NAF, ~~in the form of a Transaction Identifier,~~ to allow the NAF to retrieve specific key material from BSF;
- the UE derives the keys required to protect the protocol used over Ua interface from the key material, as specified in clause 4.~~3~~5.2;

NOTE: The UE shall adapt the key material Ks_NAF to the specific needs of the Ua interface. This adaptation is outside the scope of this specification.

- when the UE is powered down, or when the UICC is removed, any keys Ks and Ks_NAF shall be deleted from storage;
- when a new Ks is agreed over the Ub interface and a key Ks_NAF, derived from one NAF_Id, is updated, the other keys Ks_NAF, derived from different values NAF_Id, stored on the UE shall not be affected;

NAF starts communication over Zn interface with BSF

- The NAF requests key material corresponding to the Transaction Identifier supplied by the UE to the NAF ~~used~~ over Ua interface;
- The BSF derives the keys required to protect the protocol used over Ua interface from the key material Ks and the key derivation parameters, as specified in clause 4.5.2, and supplies to NAF the requested key material Ks_NAF, as well as the lifetime ~~time~~ of that key material. If the key identified by the Transaction Identifier supplied by the NAF is not available at the BSF, the BSF shall indicate this in the reply to the NAF. The NAF then indicates a key update request to the UE.

NOTE: The NAF shall adapt the key material Ks_NAF to the specific needs of the Ua interface in the same way as the UE did. This adaptation is outside the scope of this specification.

***NEXT CHANGE ***