**3GPP TSG-SA3 Meeting #105-e *S3-213945***

e-meeting, 8 - 19 November 2021

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **33.535** | **CR** | **0103** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm%22%20%5Cl%20%22_blank)*** *on using this form: comprehensive instructions can be found at <http://www.3gpp.org/Change-Requests>.* |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  | Delete the GBA\_Digest in annex B.1.2.2 |
|  |  |
| ***Source to WG:*** | ZTE |
| ***Source to TSG:*** | S3 |
|  |  |
| ***Work item code:*** | AKMA\_TLS |  | ***Date:*** | 2021-10-30 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | There is no need to compare AKMA key method with GBA key method. GBA\_Digest belongs to the GBA mode not AKMA mode. As specified in TS 33.222, in the selection of the GBA mode by the UE, AKA-based modes shall take priority over GBA\_Digest. It is clear this selection criteria is only for GBA mode.  |
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| ***Summary of change:*** | Delete the GBA\_Digest in annex B.1.2.2 |
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| ***Consequences if not approved:*** | The description may cause some misleading. |
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| ***Clauses affected:*** | B.1.2.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* 1st CHANGE\*\*\*

### B.1.2.2 Procedures

The procedures follow those given in clause 5.3.0 of TS 33.222 [7] with the AKMA AF taking the role of the NAF from GBA (see TS 33.220 [4]), with the following changes.

At step 2, if the clients supports AKMA with this protocol then the client shall add the constant string "3gpp-akma" to the "User-Agent" HTTP header as product tokens as specified in IETF RFC 2616 [8].

At step 3, if the AF selects AKMA for deriving the key, then the AF shall include the "3GPP-bootstrapping-akma" within the WWW-Authenticate header field. If the AF has choice between GBA\_Digest (see TS 33.220 [4]) and AKMA keying, then the AF shall select AKMA over GBA\_Digest (see TS 33.222 [7] for similar consideration between GBA methods).

At step 5 given AKMA has been selected for keying, the client shall send a response with an Authorization header field where Digest is inserted using the A-KID as username. KAF shall be used as password in the Digest calculation.

At step 6 given AKMA has been selected for keying, the AF shall verify the value of the password attribute using KAF retrieved from AAnF using the A-KID received as username attribute in the query. If the AF is not able to obtain the AF-specific key when using AKMA mode, the AF shall respond with an appropriate error message not containing the realm attributes from step 3.

\*\*\* END OF CHANGES\*\*\*