**3GPP TSG-SA3 Meeting #98Bis-e *S3-200818***

**e-meeting, 14-17 April 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.501** | **CR** | **DRAFT** | **rev** | **-** | **Current version:** | **16.2.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps | **X** | ME | **X** | Radio Access Network |  | Core Network |  |

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| ***Title:*** | UE pre-configuration for non-3GPP access networks | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5WWC | | | | |  | ***Date:*** | | | 2020-04-01 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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 can be 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | According to clause 7.1a “determining trust relationship in the UE”, the non-3GPP access networks, which are trusted, can be pre-configured in the UE. The home network operator should be able to securely store the list of trusted non-3GPP access networks in the USIM, which is under its control. The list of trusted non-3GPP access networks pre-configured in the USIM can be updated thanks to Over-The-Air mechanisms.  According to the latest LS from BBF, we need to consider when the W-AGF is located in the trust boundary of the 5GC. | | | | | | | | |
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| ***Summary of change:*** | | New text is added to indicate that the home network operator may configure in the USIM a list of trusted non-3GPP access networks, if the USIM supports non-3GPP access networks service.  In case of pre-configured information in the UE, the list of trusted non-3GPP access networks pre-configured by the home network in the USIM shall take precedence over information pre-configured in the ME.  Adding the Note as of the above. | | | | | | | | |
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| ***Consequences if not approved:*** | | The home network operator would not be able to store in the USIM the list of trusted non-3GPP accces networks.  3GPP and BBF being out of sync. | | | | | | | | |
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| ***Clauses affected:*** | | 7.1a, 9.10 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\*\*\*\*\*\*\* Start of change \*\*\*\*\*\*\*

## 7.1a Determining trust relationship in the UE

The non-3GPP access networks, which are trusted, can be pre-configured in the UE. Additionally, during primary authentication the UE may receive an indication whether the non-3GPP IP access is trusted or not. If such an indication is sent it shall be sent by the AUSF as part of an EAP-AKA' request. If no such indication is received by the UE (for example if 5G-AKA is used for primary authentication), and there is no pre-configured information in the UE, the UE shall consider the non-3GPP IP access as untrusted. In case of pre-configured information and indication received as part of an EAP-AKA' request are in conflict, the received indication shall take precedence. If the USIM supports non-3GPP access networks service, the home network operator may configure in the USIM a list of trusted non-3GPP access networks. In case of pre-configured information in the UE, the list of trusted non-3GPP access networks pre-configured by the home network operator in the USIM shall take precedence over information pre-configured in the ME.

\*\*\*\*\*\*\* End of 1st change \*\*\*\*\*\*\*

\*\*\*\*\*\*\* Start of 2nd change \*\*\*\*\*\*\*

## 9.x Security mechanisms for the interface between W-5GAN and 5GC

The W-AGF function in Wireline 5G Access network (W-5GAN) terminates the following interfaces:

- N2 interface between the W-5GAN and the AMF

- N3 interface between the W-5GAN and the UPF

The security of the N2 interface between the W-5GAN and the AMF is as defined in clause 9.2 of the present document.

The security of the N3 interface between the W-5GAN and the UPF is as defined in clause 9.3 of the present document.

NOTE: Clauses 9.2 and 9.3 require that the N2 and N3 interfaces are integrity, confidentiality, and replay protected. The same protection can be achieved by placing the AGF in the same trust domain as the AMF and the SMF.

\*\*\*\*\*\*\* End of change \*\*\*\*\*\*\*