**3GPP TSG- Meeting #**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *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 |  | ME |  | Radio Access Network |  | Core Network | **X** |

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|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | The currently defined format for the SUCI is based on a format that was deprecated in TS 23.003 version 15.5.0. The current format for SUCI cannot report SUCIs based on SUPIs in the form of an NAI. |
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| ***Summary of change:*** | The following changes were made to the format of the SUCI defined in the ASN.1:- Addition of a conditional SUPI type field, with the assumption being that if it is absent, the supi type is zero- Addition of a conditional Home Network Identifier field, which may be omitted if supi type is zero and the MCC/MNC fields populated instead. - Explain that if the supi type is not zero, the MCC/MNC can be populated with any value and ignored by the LEMF. |
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| ***Consequences if not approved:*** | The SUCI will not be able to be reported if the SUCI was generated based on a SUPI in the form of an NAI. |
|  |  |
| ***Clauses affected:*** | Attachment TS33128Payloads.asn |
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|  | **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 is associated with the following changes in the Forge:Merge request: [!228](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/228) Commit hash: [948de5d296d1642a359cca149eeef412aaa663e8](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/228/diffs?commit_id=948de5d296d1642a359cca149eeef412aaa663e8) CRs 592, 593, and 594 are mirrors of this CR. Tables for the ASN.1 in this CR may be found in CR 0572. |
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| ***This CR's revision history:*** | s3i230571 |

## \*\*\*\* START OF FIRST CHANGE (ATTACHMENTS) \*\*\*\*

---a/33128/r18/TS33128Payloads.asn
+++b/33128/r18/TS33128Payloads.asn

@@ -5576,6 +5576,8 @@ HandoverType ::= ENUMERATED

5576 5576 fiveGStoUTRA(4)

5577 5577 }

5578 5578

 5579 + HomeNetworkIdentifier ::= UTF8String

 5580 +

5579 5581 HomeNetworkPublicKeyID ::= OCTET STRING

5580 5582

5581 5583 HSMFURI ::= UTF8String

@@ -5890,9 +5892,11 @@ SUCI ::= SEQUENCE

5890 5892 protectionSchemeID [4] ProtectionSchemeID,

5891 5893 homeNetworkPublicKeyID [5] HomeNetworkPublicKeyID,

5892 5894 schemeOutput [6] SchemeOutput,

5893 - routingIndicatorLength [7] INTEGER (1..4) OPTIONAL

 5895 + routingIndicatorLength [7] INTEGER (1..4) OPTIONAL,

5894 5896 -- shall be included if different from the number of meaningful digits given

5895 5897 -- in routingIndicator

 5898 + sUPIType [8] SUPIType OPTIONAL,

 5899 + homeNetworkIdentifier [9] HomeNetworkIdentifier OPTIONAL

5896 5900 }

5897 5901

5898 5902 SUPI ::= CHOICE

@@ -5903,6 +5907,8 @@ SUPI ::= CHOICE

5903 5907

5904 5908 SUPIUnauthenticatedIndication ::= BOOLEAN

5905 5909

 5910 + SUPIType ::= INTEGER (0..7)

 5911 +

5906 5912 SupportedTAList ::= SEQUENCE (SIZE(1..MAX)) OF TAItem

5907 5913

5908 5914 SwitchOffIndicator ::= ENUMERATED

## \*\*\*\* END OF ALL CHANGES \*\*\*\*