**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. |
|  |  |
| ***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. |
|  |  |
|  | **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: [!227](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/227) Commit hash: [31521f244a6fa39f442b05d9b09b60dfaf7b7e2e](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/227/diffs?commit_id=31521f244a6fa39f442b05d9b09b60dfaf7b7e2e) CRs 592, 593, and 595 are mirrors of this CR. |
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| ***This CR's revision history:*** | s3i230570 |

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

---a/33128/r17/TS33128Payloads.asn
+++b/33128/r17/TS33128Payloads.asn

@@ -4195,6 +4195,9 @@ GUTI ::= SEQUENCE

4195 4195 mTMSI [5] TMSI

4196 4196 }

4197 4197

 4198 + HomeNetworkIdentifier ::= UTF8String

 4199 +

 4200 + -- This parameter shall be encoded as an octet string as a single octet containing the Home Network Public ID.

4198 4201 HomeNetworkPublicKeyID ::= OCTET STRING

4199 4202

4200 4203 HSMFURI ::= UTF8String

@@ -4414,9 +4417,16 @@ SUCI ::= SEQUENCE

4414 4417 protectionSchemeID [4] ProtectionSchemeID,

4415 4418 homeNetworkPublicKeyID [5] HomeNetworkPublicKeyID,

4416 4419 schemeOutput [6] SchemeOutput,

4417 - routingIndicatorLength [7] INTEGER (1..4) OPTIONAL

4418 - -- shall be included if different from the number of meaningful digits given

4419 - -- in routingIndicator

 4420 + routingIndicatorLength [7] INTEGER (1..4) OPTIONAL,

 4421 + -- the sUPIType and homeNetworkIdentifier fields are OPTIONAL to support reporting SUCIs in

 4422 + -- the format defined in 23.003 [19] version 15.0.0 to 15.4.0

 4423 + -- to report SUCIs in the format defined in 23.003 [19] version 15.0.0

 4424 + sUPIType [8] SUPIType OPTIONAL,

 4425 + -- if the sUPIType is '0' the homeNetworkIdentifier is the PLMN and may be absent as it is reported

 4426 + -- as the MCC and MNC above

 4427 + -- if the sUPIType is not '0' the mCC and mNC fields above

 4428 + -- shall be populated with '000' and ignored by the receiver.

 4429 + homeNetworkIdentifier [9] HomeNetworkIdentifier OPTIONAL

4420 4430 }

4421 4431

4422 4432 SUPI ::= CHOICE

@@ -4425,6 +4435,8 @@ SUPI ::= CHOICE

4425 4435 nAI [2] NAI

4426 4436 }

4427 4437

 4438 + SUPIType ::= INTEGER (0..7)

 4439 +

4428 4440 SUPIUnauthenticatedIndication ::= BOOLEAN

4429 4441

4430 4442 SwitchOffIndicator ::= ENUMERATED

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