**3GPP TSG-SA5 Meeting #132-e *S5-204118***

**Online, , 17th Aug 2020 - 28th Aug 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **32.422** | **CR** | **0336** | **rev** | **-** | **Current version:** | **15.4.0** |  |
|  |
| *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 |  | ME |  | Radio Access Network | **■** | Core Network | **■** |

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|  |
| ***Title:***  | Rel-15 CR Adding AUSF and SMSF as Trace Entity |
|  |  |
| ***Source to WG:*** | Samsung Electronics Benelux BV |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | TM\_SBMA |  | ***Date:*** | 2020-08-06 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-15 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
|  |  |
| ***Reason for change:*** | The AUSF and SMSF are not included in the list of NE types where Trace Session activation is needed. The follwing calls for their inclusion in section 5.4* 23.501 states: *The AMF propagates Trace Requirements about a UE received from the UDM to network entities not retrieving subscription information from UDM, i.e. to the 5G-AN, to the AUSF and to the PCF. The AMF also propagates Trace Requirements to the SMF and to the SMSF*
* Section 5.2 of 32.421 specify related requirements on AUSF and SMSF.
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| ***Summary of change:*** | Adding AUSF and SMSF in section 5.4. |
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| ***Consequences if not approved:*** | Inconsistency between 32.421 and 32.422 |
|  |  |
| ***Clauses affected:*** | 5.4 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **■** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **■** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **■** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

## 5.4 List of NE types (M)

This conditional mandatory parameter defines the Network Element types where Trace Session activation is needed. The condition of this parameter is that signalling based activation mechanism is used except in IMS. This parameter determines whether the Trace Session Activation shall be propagated further to other Network Elements. In the management based activation mechanism, and in the signalling based activation mechanism for IMS, this parameter is not needed.

The following list contains the Network Element types:

- MSC Server

- MGW

- RNC

- SGSN

- GGSN

- BM-SC

- MME

- SGW

- PDN GW

- eNB

- AMF

-- PCF

- SMF

-- UPF

- gNB-CU-CP

- gNB-CU-UP

- gNB-DU

- AUSF

- SMSF

- ng-eNB

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Bit 8 | Bit 7 | Bit 6 | Bit 5 | Bit 4 | Bit 3 | Bit 2 | Bit 1 |
| SGW | MME | BM-SC | RNC | GGSN | SGSN | MGW | MSC-S |
| gNB-CU-UP  | gNB-CU-CP  | UPF | PCF | SMF | AMF | eNB | PDN GW |
| spare | spare | spare | spare | SMSF | AUSF | ng-eNB | gNB-DU |

If a bit is set to 1, Trace Session to that Network Element shall be activated.

If a bit is set to 0, Trace Session is not needed in that Network Element.