**3GPP TSG-SA5 Meeting #129-e *S5-201340***

**Online, , 24th Feb 2020 - 4th Mar 2020**

|  |
| --- |
| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **32.255** | **CR** | **0140** | **rev** | **1** | **Current version:** | **16.3.0** |  |
|  |
| *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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | 5GS to EPS handover using N26 interface with I-SMF |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | ETSUN |  | ***Date:*** | 2020-02-14 |
|  |  |  |  |  |
| ***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 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:*** | Missing 5GS to EPS handover using N26 interface with I-SMF Removal procedure related charging message flow. |
|  |  |
| ***Summary of change:*** | Adding 5GS to EPS handover using N26 interface with I-SMF removal procedure related charging message flow. |
|  |  |
| ***Consequences if not approved:*** | Can not supporting charging procedure for 5GS to EPS handover using N26 interface with I-SMF removal. |
|  |  |
| ***Clauses affected:*** | 5.2.2.14.x (new) |
|  |  |
|  | **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:*** |  |

|  |
| --- |
| **First change** |

##### 5.2.2.14.x 5GS to EPS handover using N26 interface with I-SMF removal

When 5GS to EPS handover using N26 interface in idle mode, procedure in TS 23.502 clause 4.23.12.2 is applicable.

When 5GS to EPS handover using N26 interface in active mode, procedure in TS 23.502 clause 4.23.12.6 is applicable.

Upon UE moves from I-SMF service area to EPS service area, with both RAT Type change and I-SMF removal triggered, PGW-C+SMF and CHF will conduct below charging procedures:

x.ch-a. All counts are closed in PGW-C+SMF with a Charging Data Request [Update] message including I-SMF information and both “RAT Type change” and “removal of I-SMF” triggers are sent to CHF, if required by immediate report category trigger. New counts and time stamps for all active service data flows are started in the PGW-C+SMF.

x.ch-b. The CHF updates CDR for this PDU session.

x.ch-c. The CHF acknowledges by sending Charging Data Response [Update] message to the PGW-C+SMF.

NOTE 1: x refers to the last message step number with I-SMF removal in the detail message flows in TS 23.502 clause 4.23.12.2 or clause 4.23.12.6.

|  |
| --- |
| **End of change** |