**3GPP TSG-SA5 Meeting #130e *S5-202063***

**e-meeting 20-28 April 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **32.240** | **CR** | **0412** | **rev** | **-** | **Current version:** | **16.1.0** |  |
|  | | | | | | | | |
| *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 | **X** |

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| ***Title:*** | Correcting trigger of usage reporting | | | | | | | | | |
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| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-04-09 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***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)* | |
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| ***Reason for change:*** | | When the 5G architecture was introduced the definition of the reference points applicability wasn’t updated | | | | | | | | |
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| ***Summary of change:*** | | Clarifying when the reference points is applicable. | | | | | | | | |
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| ***Consequences if not approved:*** | | Inconsistency in the specification may lead to different interpretations. | | | | | | | | |
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| ***Clauses affected:*** | | 3.2 | | | | | | | | |
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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's revision history:*** | |  | | | | | | | | |

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| **First change** |

## 3.2 Symbols

For the purposes of the present document the following symbols apply:

A Interface between an MSC and a BSC.

Bea Reference point for the CDR file transfer from the Exposure function API CGF to the BD.

Bc Reference point for the CDR file transfer from the Circuit Switched CGF to the BD.

Bcp Reference point for the CDR file transfer from the CP data transfer CGF to the BD.

Bi Reference point for the CDR file transfer from the IMS CGF to the BD.

Bl Reference point for the CDR file transfer from the GMLC CGF to the BD.

Bm Reference point for the CDR file transfer from the MMS CGF to the BD.

Bmn Reference point for the CDR file transfer from the Monitoring Event CGF to the BD.

Bo Reference point for the CDR file transfer from the OCF CGF to the BD.

Bp Reference point for the CDR file transfer from the Packet Switched CGF to the BD.

Bs Reference point for the CDR file transfer for CAMEL services to the BD, i.e. from the SCF CGF to the BD.

Bsm Reference point for the CDR file transfer from SMS CGF to the BD,

Bt Reference point for the CDR file transfer from the PoC CGF to the BD.

Bw Reference point for the CDR file transfer from the WLAN CGF to the BD (discontinued in Release 12).

Bx Reference point for CDR file transfer between any (generic) 3G domain, subsystem or service CGF and a BD.

CAP Reference point for CAMEL between a network element with integrated SSF and the OCS.

Ga Reference point for CDR transfer between a CDF and the CGF.

Gb Interface between an SGSN and a BSC.

Gc Interface between an GGSN and an HLR.

Gd Interface between an SMS-GMSC and an SGSN, and between a SMS-IWMSC and an SGSN.

Gf Interface between an SGSN and an EIR.

Gi Interface between the Packet-Switched domain and an external packet data network.

Gn Interface between two GSNs within the same PLMN.

Gp Interface between two GSNs in different PLMNs.

Gr Interface between an SGSN and an HLR.

Gs Interface between an SGSN and an MSC/VLR.

Gx Reference point between a PCRF and a PCEF.

Gy Online charging reference point between a PCEF and an OCS.

Gyn Online charging reference point between a TDF and an OCS.

Gz Offline charging reference point between a PCEF and an OFCS.

Gzn Offline charging reference point between a TDF and an OFCS.

Iu Interface between the RNS and the core network.

kbit/s Kilobits per second. 1 kbit/s = 210 bits per second.

Lr Interface between Gateway MLCs.

Mbit/s Megabits per second. 1 Mbit/s = 220 bits per second.

Mc Interface between the MGW and (G)MSC server.

Rf Offline charging reference point between a 3GPP network element and the CDF.

Nchf Service-based interface exhibited by Charging Function.

N28 Reference point between the PCF and Converged Charging System.

Ro Online charging reference point between a 3GPP network element and the OCS.

Rx Reference point between the PCRF and an AF.

S8 Interface between S-GW and P-GW in different PLMNs.

Sd Reference point between the PCRF and a TDF.

Sy Reference point for policy enforcement between OCS and the PCRF.

T8 Reference points for interworking between SCEF and SCS/AS.

Um Interface between the Mobile Station (MS) and the GSM fixed network part.

Uu Interface between the User Equipment (UE) and the UMTS fixed network part.

Wf Offline charging reference point between a 3GPP WLAN CTF and the CDF (discontinued in Release 12).

Wo Online charging reference point between a 3GPP WLAN CTF and the OCS (discontinued in Release 12).

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| **End of changes** |