**3GPP TSG-SA5 Meeting #132e *S5-204305***

**e-meeting 17th 28th August 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | 28.552 | **CR** | 0258 | **rev** | 1 | **Current version:** | 16.6.0 |  |
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| *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 | **X** | Core Network | **X** |

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| ***Title:*** | Add EPS fallback handover mean time measurement | | | | | | | | | |
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| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | S5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | ePM\_KPI\_5G | | | | |  | ***Date:*** | | | 2020/8/3 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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:*** | | The measurement statistics of EPS fallback handover time include the total time consumed by the whole handover time or the time in the execution phase. The EPS fallback handover time directly affects user perception, and the time in the execution phase helps to optimize the performance of different systems. | | | | | | | | |
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| ***Summary of change:*** | | Add EPS fallback handover time Measurement | | | | | | | | |
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| ***Consequences if not approved:*** | | The measurement of voice-related indicators is incomplete. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.1.6.3.X, 5.1.1.6.3.Y, A.x | | | | | | | | |
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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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| **1st modified section** |

###### 5.1.1.6.3.X Mean Time of EPS fallback handover

a) This measurement provides the mean time of EPS fallback whole handover during each granularity period.

b) DER (n=1)

c) This measurement is obtained by accumulating the time interval for every successful EPS fallback handover procedure between the receipt by the NG-RAN from the EPS of a "UE CONTEXT RELEASE COMMAND" and the sending of a "HANDOVER REQUIRED" message from NG-RAN to the EPS over a granularity period using DER. The end value of this time will then be divided by the number of EPS fallback handovers observed in the granularity period to give the arithmetic mean, the accumulator shall be reinitialised at the beginning of each granularity period.

d) A single integer value (in milliseconds)

e) MM.Ho5gsToEpsFallbackTimeMean.

f) NRCellCU.

g) Valid for packet switched traffic

h) 5GS

i) One usage of this measurement is for monitoring the mean time of EPS fallback handovers during the granularity period.

###### 5.1.1.6.3.Y Mean Time of EPS fallback handover executions

a) This measurement provides the mean time of EPS fallback handover executions during each granularity period.

b) DER (n=1)

c) This measurement is obtained by accumulating the time interval for every successful EPS fallback handover executions procedure between the receipt by the NG-RAN from the EPS of a "UE CONTEXT RELEASE COMMAND" and the sending of *RRC ConnectionReconfiguration* message to the UE over a granularity period using DER. The end value of this time will then be divided by the number of EPS fallback handovers observed in the granularity period to give the arithmetic mean, the accumulator shall be reinitialised at the beginning of each granularity period.

d) Each measurement is an integer value (in milliseconds)

e) MM.HoExeHo5gsToEpsFallbackTimeMean.

f) NRCellCU.

g) Valid for packet switched traffic

h) 5GS

i) One usage of this measurement is for monitoring the mean time of EPS fallback handover executions during the granularity period.

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| **Next modified section** |

# A.x Use case of EPS fallback handover time monitor

The measurement statistics of EPS fallback handover time include the total time consumed by the whole handover time or the time in the execution phase. The EPS fallback handover time directly affects user perception, and the time in the execution phase helps to optimize the performance of different systems.

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| **End of modifications** |