**3GPP TSG-RAN4 Meeting #97-e *R4-2017069***

**Electronic Meeting, 2 – 13 November, 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **36.133** | **CR** | 6980 | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  | CR to introduce measurement requirements for eMTC in RRC\_Inactive |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | LTE\_eMTC5-Core |  | ***Date:*** | 2020-09-21 |
|  |  |  |  |  |
| ***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)* |
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| ***Reason for change:*** | RAN2 has introduced support of Inactive state for eMTC in Rel-16, and asks RAN4 to define correpsonding measurement requirements. |
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| ***Summary of change:*** | Introduce measurement requirements for eMTC in RRC\_Inactive. |
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| ***Consequences if not approved:*** | No measurement requirements for eMTC in RRC\_Inactive, support of Inactive state for eMTC is not complete. |
|  |  |
| ***Clauses affected:*** | 4A.2 |
|  |  |
|  | **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:*** |  |

<Start of Change 1>

## 4A.2 Requirements for UE Category M1

### 4A.2.1 Introduction

The E-UTRAN RRC\_INACTIVE state requirements defined in this section applies for the Category M1 UE when connected to NGCN.

### 4A.2.2 Cell Selection

The requirements defined in section 4.7.1 should apply.

### 4A.2.3 Cell Reselection

#### 4A.2.3.1 Cell Re-selection requirements for UE category M1 in normal coverage

##### 4A.2.3.1.1 Measurement and evaluation of serving cell for UE category M1 in normal coverage

The requirements defined in section 4.7.2.1.1 should apply when UE is not configured with eDRX\_IDLE. When UE is configured with eDRX\_IDLE, the requirements are TBD.

##### 4A.2.3.1.2 Measurements of intra-frequency cells for UE category M1 in normal coverage

The requirements defined in section 4.7.2.1.2 should apply when UE is not configured with eDRX\_IDLE. When UE is configured with eDRX\_IDLE, the requirements are TBD.

##### 4A.2.3.1.3 Measurements of inter-frequency cells for UE category M1 in normal coverage

The requirements defined in section 4.7.2.1.3 should apply when UE is not configured with eDRX\_IDLE. When UE is configured with eDRX\_IDLE, the requirements are TBD.

##### 4A.2.3.1.4 Maximum allowed layers for multiple monitoring for UE category M1 in normal coverage

The requirements defined in section 4.7.2.1.4 should apply.

##### 4A.2.3.1.5 Maximum interruption in paging reception for Category M1 UEs in normal coverage

The requirements defined in section 4.7.2.1.5 should apply.

4A.2.3.2 Cell Re-selection requirements for UE category M1 in enhanced coverage

4A.2.3.2.1 Measurement and evaluation of serving cell for UE category M1 in enhanced coverage

The requirements defined in section 4.7.2.2.1 should apply when UE is not configured with eDRX\_IDLE. When UE is configured with eDRX\_IDLE, the requirements are TBD.

4A.2.3.2.2 Measurements of intra-frequency cells for UE category M1 in enhanced coverage

The requirements defined in section 4.7.2.2.2 should apply when UE is not configured with eDRX\_IDLE. When UE is configured with eDRX\_IDLE, the requirements are TBD.

4A.2.3.2.3 Measurements of inter-frequency cells for UE category M1 in enhanced coverage

The requirements defined in section 4.7.2.2.3 should apply when UE is not configured with eDRX\_IDLE. When UE is configured with eDRX\_IDLE, the requirements are TBD.

4A.2.3.2.4 Maximum allowed layers for multiple monitoring for UE category M1 in enhanced coverage

The requirements defined in section 4.7.2.2.4 should apply.

4A.2.3.2.5 Maximum interruption in paging reception for Category M1 UEs in enhanced coverage

The requirements defined in section 4.7.2.2.5 should apply.

### 4A.2.4 Channel quality report for UE Category M1 in idle mode

The requirements defined in section 4.7.3 should apply.

<End of Change 1>