**3GPP TSG-RAN WG4 Meeting #** **95-eR4-2008720**

**Electronic Meeting, 25 May – 5 June, 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.124** | **CR** | **0017** | **rev** | **1** | **Current version:** | **15.2.0** |  |
|  | | | | | | | | |
| *For* ***[HELP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <http://www.3gpp.org/Change-Requests>.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | CR to TS 38.124: Voltage dips and interruptions test requirements, Rel-15 | | | | | | | | | |
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| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2020-05-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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 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:*** | | There is no voltage dips and interruptions test requirements for UE. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add voltage dips and interruptions test requirements . | | | | | | | | |
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| ***Consequences if not approved:*** | | Voltage dips and interruptions test requirements missing. | | | | | | | | |
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| ***Clauses affected:*** | | 9.7 | | | | | | | | |
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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:*** | |  | | | | | | | | |

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| ***This CR's revision history:*** |  |

**--------------Start of text change-------------**

## 9.7 Voltage dips and interruptions

### 9.7.0 General

The tests shall be performed on AC mains power input ports.

These tests shall be performed on a representative configuration of the UE or a representative configuration of the combination of UE and ancillary equipment.

### 9.7.1 Definition

These tests assess the ability of UE and ancillary equipment to operate as intended in the event of voltage dips and interruptions present on the AC mains power input ports.

### 9.7.2 Test method and level

The following requirements shall apply.

The test method shall be in accordance with IEC 61000‑4‑11 [16].

The test levels shall be:

- a voltage dip corresponding to a reduction of the supply voltage of 60 % for 5 periods;

- a voltage interruption corresponding to a reduction of the supply voltage of > 95 % for 250 periods.

### 9.7.3 Performance criteria

The performance criteria of clause 6.2 shall apply. However, in the case where the equipment is powered solely from the AC mains supply (without the use of a parallel battery back-up) the communications link need not be maintained and may have to be re-established and volatile user data may have been lost. In the event of loss of the communications link or in the event of loss of user data, this fact shall be recorded in the test report, the product description and the user documentation.

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