**3GPP TSG-RAN4 Meeting #95-e *R4-2009004***

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

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.133** | **CR** | **0793** | **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)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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|  | | | | | | | | | | |
| ***Title:*** | CR on CSI-RS based L3 measurement framework and introduction | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_CSIRS\_L3meas-Core | | | | |  | ***Date:*** | | | 2020-05-11 |
|  |  | | | |  | |  | | |  |
| ***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 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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | CSI-RS based measurement requirements need to be defined. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | -The framework of CSI-RS based L3 measurement requirements is given;  - the introduction for CSI-RS based L3 measurement is provided | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | CSI-RS measurement requirements are incomplete. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | New section 9.9 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  |  | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  |  | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

<Start of Change 1>

## 9.9 CSI-RS L3 measurements

### 9.9.1 Introduction

This clause contains general requirements on the UE regarding CSI-RS based measurement reporting in RRC\_CONNECTED state. The requirements are split in intra-frequency and inter-frequency measurements requirements.

The requirements in this clause apply to the case

- all CSI-RS resources in the same MO have the same bandwidth, and

- the bandwidth of CSI-RS resources in the target MO is same from that of the CSI-RS resources configured for the serving cell

### 9.9.2 Intra-frequency measurements

#### 9.9.2.1 Introduction

#### 9.9.2.2 Requirements applicability

#### 9.9.2.3 Number of cells and number of CSI-RS resources

#### 9.9.2.4 Measurement Reporting Requirements

#### 9.9.2.5 Intra-frequency measurements without measurement gaps

<End of Change 1>

<Start of Change 2>

### 9.9.3 Inter-frequency measurements

#### 9.9.3.1 Introduction

#### 9.9.3.2 Requirements applicability

#### 9.9.3.3 Number of cells and number of CSI-RS resources

#### 9.9.3.4 Measurement Reporting Requirements

#### 9.9.3.5 Inter-frequency measurements with measurement gaps

TBA

<End of Change 2>