**3GPP TSG-RAN WG3 Meeting #115-e *R3-222941***

**E-meeting, 21 February – 3 March, 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.410** | **CR** | **0034** | **rev** | **4** | **Current version:** | **16.4.0** |  |
|  | | | | | | | | |
| *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 | **X** | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | BLCR to 38.410: Support of QoE Measurement Collection for NR | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_QoE-Core | | | | |  | ***Date:*** | | | 2022-03-04 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | BL CR for introduction of QoE measurement collection in NR. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Introduction of QMC function and QMC procedures. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | New feature not supported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 3.2, 5.x1 (new), 6.x2 (new) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Rev. 1: Include TP agreed at RAN3#114-e: R3-216113  Added abbreviation: QoE  Rev. 2: Submission to RAN3#114bis-e  Rev. 3: Include TP agreed at RAN3#114bis-e: R3-221269. Submission to RAN3#115-e.  Rev. 4: Include TP agreed at RAN3#115-e: R3-222889 | | | | | | | | |

## 3.2 Abbreviations

For the purposes of the present document, the terms and definitions given in TR 21.905 [1] and the following apply.   
A term defined in the present document takes precedence over the definition of the same term, if any, in TR 21.905 [1].

5GC 5G Core Network

AMF Access and Mobility Management Function

CIoT Cellular IoT

NB-IoT Narrow Band Internet of Things

NG-U NG User plane interface

QMC QoE Measurement Collection

QoE Quality of Experience

RIM Remote Interference Management

SMF Session Management Function

UP User Plane

UPF User Plane Function

## 5.x1 QMC function

The QMC function provides means to manage the QMC sessions and support the mobility of QMC sessions over the NG interface.

## 6.x2 QMC procedures

The following procedures are used to control the QMC sessions in the UE and to transfer QMC session information to the target NG-RAN node during a UE’s intra-system intra-RAT mobility:

- Initial Context Setup;

- UE Context Modification;

- Handover Preparation;

- Handover Resource Allocation.