**3GPP TSG RAN WG5 Meeting #95-e DRAFT R5-223315**

**Electronic Meeting, May 9 - 20, 2022**

**3GPP TSG RAN Meeting #96 RP-22xxxx**

**Budapest, Hungary, June 6 - 9, 2022**

**Source: CMCC**

**Title: New WID - UE Conformance - Enhancement of RAN slicing for NR**

**Document for: Endorsement**

**Agenda Item: 7.4.1**

3GPP™ Work Item Description

Information on Work Items can be found at <http://www.3gpp.org/Work-Items>
See also the [3GPP Working Procedures](http://www.3gpp.org/specifications-groups/working-procedures), article 39 and the TSG Working Methods in [3GPP TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm)

# Title: UE Conformance - Enhancement of RAN slicing for NR

## Acronym: NR\_slice-UEConTest

## Unique identifier:

|  |  |
| --- | --- |
| **This WID includes a Testing part** | **X** |
| **and it addresses the following 3GPP work area:** | **Radio Access** | **X** |
| **Core Network** |  |
| **Services** |  |

Potential target Release: Rel-17.

## 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Affects:** | UICC apps | ME | AN | CN | Others (specify) |
| **Yes** |  |  |  |  |  |
| **No** | X | X | X | X | X |
| **Don't know** |  |  |  |  |  |

## 2 Classification of the Work Item and linked work items

### 2.1 Primary classification

This work item is a

|  |  |
| --- | --- |
|  | Feature |
| X | Building Block |
|  | *Work Task* |
|  | Study Item |

### 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| NR\_slice | RAN2 | 911007 | Enhancement of RAN slicing for NR  |
| NR\_slice-Core | RAN2 | 911107 | Core part: Enhancement of RAN slicing for NR  |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work Items (if any) |
| Unique ID | Title | Nature of relationship |
|  |  |  |
|  |  |  |
|  |  |  |

## 3 Justification

In Rel-17 the enhancement of RAN Slicing for NR was specified to define the slice-based cell reselection and slice based RACH configuration, as well as to define solutions to support slice based service continuity, and to support the enforcement of Slice MBR and the usage of Target NSSAI. The requirements on UE are to support the slice based cell reselection and slice based RACH configuration.

The completion level of the 3GPP Rel-17 work item on enhancement of RAN Slicing for NR has achieved 95% at RAN#95-e (March-2022). The target completion date is June 2022.There is a need to introduce an associated RAN5 work item to enable UE conformance testing for Enhancement of RAN Slicing for NR.

## 4 Objective

### 4.1 Objective of SI or Core part WI or Testing part WI

The objective of the proposed Work Item is to define UE conformance requirements corresponding to the WID on Rel-17 enhancement of RAN Slicing for NR, including protocol test cases for slice based cell reselection and slice based RACH configuration, and the associated test environment, test applicability, etc.

## 5 Expected Output and Time scale

|  |
| --- |
| **New specifications** |
| Type  | TS/TR number | Title | For info at TSG#  | For approval at TSG# | Remarks |
|  |  |  |  |  |  |

|  |
| --- |
| **Impacted existing TS/TR** |
| TS/TR No. | Description of change  | Target completion plenary# | Remarks |
| TS 38.508-1 | Definition of common environment for Rel-17 enhancement of RAN Slicing for NR | TSG RAN#101(Sep-23) |  |
| TS 38.508-2 | Introduction of common implementation conformance statements for Rel-17 enhancement of RAN Slicing for NR | TSG RAN#101(Sep-23) |  |
| TS 38.523-1 | Introduction of the SIG test cases for Rel-17 enhancement of RAN Slicing for NR | TSG RAN#101(Sep-23) |  |
| TS 38.523-2 | Introduction of test applicability for SIG test cases impacted by Rel-17 enhancement of RAN Slicing for NR | TSG RAN#101(Sep-23) |  |
| TS 38.523-3 | Introduction of test model Rel-17 enhancement of RAN Slicing for NR | TSG RAN#101(Sep-23) | Note: Progress of TTCN development is tracked in MCC TF160 reports to RAN5/RAN. |

## 6 Work item Rapporteur(s)

Luting Kong (China Mobile)

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## 7 Work item leadership

RAN5

## 8 Aspects that involve other WGs

None

## 9 Supporting Individual Members

|  |
| --- |
| Supporting IM name |
| AT&T |
| CATT |
| China Mobile |
| China Telecom |
| China Unicom |
| Ericsson |
| Lenovo |
| Motorola Mobility  |
| NTT DOCOMO |
| Huawei |
| Hisilicon |
| Orange |
| Verizon |
| ZTE |