**3GPP TSG RAN WG5 Meeting #94-e draft\_R5-221380**

**Electronic Meeting, February 21 –March 04, 2022**

**3GPP TSG RAN Meeting #95-e RP-22xxxx**

**Electronic Meeting, March 17 - 23, 2022**

**Source: CMCC, CATT**

**Title: New WID - UE Conformance - Enhancement of Network Slicing Phase 2**

**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 Network Slicing Phase 2

## Acronym: eNS\_Ph2-UEConTest

## Unique identifier:

|  |  |  |
| --- | --- | --- |
| **This WID includes a Testing part** | | **X** |
| **and it addresses the following 3GPP work area:** | **Radio Access** |  |
| **Core Network** | **X** |
| **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) |
| eNS\_Ph2 | SA2 | 900011 | Stage 2 for Enhancement of Network Slicing Phase 2 |
| eNS\_Ph2 | CT1 | 910041 | CT1 aspects of eNS\_Ph2 |

### 2.3 Other related Work Items and dependencies

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

## 3 Justification

The Rel-17 work item on Enhancement of Network Slicing Phase 2 in SA and CT is for the purpose of Network Slice Access Control (NSAC), including following requirements for UE.

* Restriction on the maximum number of UEs per network slice with a proper cause and a backoff timer.
* Restriction on the maximum number of PDU sessions per network slice with a proper cause and a backoff timer.
* Support of subscription-based mechanism ensuring that a UE is only allowed to be registered with compatible network slices.

The completion level of the 3GPP Rel-17 work item on Enhancement of Network Slicing Phase 2 has achieved 80% at CT#94-e (Dec-2021). There is a need to introduce an associated RAN5 work item to enable UE conformance testing for Enhancement of Network Slicing Phase 2.

## 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 WID on Rel-17 enhancement of Network Slicing Phase2, including protocol test cases and associated test environment, test applicability, etc.

## 5 Expected Output and Time scale

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **New specifications** *{One line per specification. Create/delete lines as needed}* | | | | | |
| Type | TS/TR number | Title | For info  at TSG# | For approval at TSG# | Remarks |
|  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Impacted existing TS/TR** *{One line per specification. Create/delete lines as needed}* | | | |
| TS/TR No. | Description of change | Target completion plenary# | Remarks |
| TS 38.508-1 | Definition of common environment for Rel-17 enhancement of Network Slicing Phase2 | TSG RAN#98  (Dec-22) |  |
| TS 38.508-2 | Introduction of common implementation conformance statements for Rel-17 enhancement of Network Slicing Phase2 | TSG RAN#98  (Dec-22) |  |
| TS 38.523-1 | Introduction of the SIG test cases for Rel-17 enhancement of Network Slicing Phase2 | TSG RAN#98  (Dec-22) |  |
| TS 38.523-2 | Introduction of test applicability for SIG test cases impacted by Rel-17 enhancement of Network Slicing Phase2 | TSG RAN#98  (Dec-22) |  |
| TS 38.523-3 | Introduction of test model Rel-17 enhancement of Network Slicing Phase2 | TSG RAN#98  (Dec-22) | Note: Progress of TTCN development is tracked in MCC TF160 reports to RAN5/RAN. |

## 6 Work item Rapporteur(s)

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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 |
| China Mobile |
| China Telecom |
| China Unicom |
| CATT |
| DISH Network |
| Ericsson |
| Huawei |
| Hisilicon |
| Lenovo |
| Motorola Mobility |
| Orange |
| Qualcomm |
| T-Mobile USA |
| Verizon |
| ZTE |