**3GPP TSG-RAN5 Meeting #95-e R5-223310**

**Electronic Meeting, 09 May - 20 May 2022**

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

**Budapest, HU, 06 Jun - 09 Jun 2022**

**Source: CATT, Huawei**

**Title: New WID on UE Conformance - NR sidelink enhancement**

**Document for: Endorsement**

**Agenda Item: 7.4.2**

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 - NR sidelink enhancement

## Acronym: NR\_SL\_enh-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\_SL\_enh | R1 | 860042 | NR Sidelink enhancement |
| NR\_SL\_enh-Core | R1 | 860142 | Core part: NR Sidelink enhancement |
| NR\_SL\_enh-Perf | R4 | 860242 | Perf. part: NR Sidelink enhancement |

### 2.3 Other related Work Items and dependencies

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

## 3 Justification

The objective of Rel-17 Work Item of “NR Sidelink enhancement” is to specify radio solutions that can enhance NR sidelink for the V2X, public safety and commercial use cases.

The core part of WI “NR Sidelink enhancement” has reached 100% completion after RAN#95e (March 2022). The corresponding UE conformance testing specifications are required to be implemented in RAN5 before commercial deployment.

## 4 Objective

### 4.1 Objectives Core part WI

The objective of this work item is to specify solutions to UE conformance testing corresponding to the features described in WID of NR Sidelink enhancement, including protocol, RF and RRM test cases and 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 | Introduction of common environment for NR Sidelink enhancement | TSG RAN#101  (Sep-23) |  |
| TS 38.508-2 | Introduction of common implementation conformance statements for NR Sidelink enhancement | TSG RAN#101  (Sep-23) |  |
| TS 38.521-1 | Introduction of new NR Sidelink enhancement test cases for RF requirements. | TSG RAN#101  (Sep-23) |  |
| TS 38.522 | Definition of RF and RRM test case applicability | TSG RAN#101  (Sep-23) |  |
| TR 38.903 | Derivation of test tolerances and measurement uncertainty for NR Sidelink enhancement RRM requirements. | TSG RAN#101  (Sep-23) |  |
| TR 38.905 | Derivation of test points for NR Sidelink enhancement RF requirements. | TSG RAN#101  (Sep-23) |  |
| TS 38.533 | Introduction of new NR Sidelink enhancement test cases for RRM requirements. | TSG RAN#101  (Sep-23) |  |
| TS 38.523-1 | Introduction of the SIG test cases for NR Sidelink enhancement | TSG RAN#101  (Sep-23) |  |
| TS 38.523-2 | Introduction of test applicability for SIG test cases impacted by NR Sidelink enhancement | TSG RAN#101  (Sep-23) |  |
| TS 38.523-3 | Introduction of test model definition for NR Sidelink enhancement | TSG RAN#101  (Sep-23) | Note: Progress of TTCN development of the new protocol test cases 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 |
| CATT |
| Huawei |
| Spreadtrum |
| China Unicom |
| AT&T |
| Verizon |
| Motorola Mobility |
| ZTE |
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