**3GPP TSG-RAN WG5 Meeting #105 R5-247518**

**Orlando, USA, 18 – 22 November, 2024**

**3GPP TSG RAN Meeting #106 RP-24xxxx**

**Madrid, Spain, 09 – 12 December, 2024**

**Source: Ericsson**

**Title: New WID on UE Conformance – New NR FDD bands for RedCap (Reduced Capability)**

**Document for: Endorsement**

**Agenda Item: 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 – New NR FDD bands for RedCap (Reduced Capability)

Acronym: NR\_FDD\_bands\_R18\_redcap-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-18

# 1 Impacts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Affects:** | UICC apps | ME | AN | CN | Others (specify) |
| **Yes** |  |  |  |  |  |
| **No** | 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

|  |
| --- |
| Normative Work Item: |
|  | Stage 1 |
|  | Stage 2 |
|  | Stage 3 |
| X | Other (e.g. testing) |

### 2.2 Parent Work Item

|  |
| --- |
| Parent Work / Study Items  |
| Acronym | Working Group | Unique ID | Title (as in 3GPP Work Plan) |
| NR\_FDD\_bands\_R18\_redcap | R4 | 991039 | Adding new NR FDD bands for RedCap (Reduced Capability) in Rel-18 |
| NR\_FDD\_bands\_R18\_redcap-Core | R4 | 991139 | Core part: Adding new NR FDD bands for RedCap (Reduced Capability) in Rel-18 |

### 2.3 Other related Work Items and dependencies

|  |
| --- |
| Other related Work/Study Items (if any) |
| **Acronym** | Unique ID | Title | Nature of relationship |
| NR\_lic\_bands\_BW\_R18-UEConTest | 1000058 | UE Conformance - New Rel-18 NR licensed bands and extension of existing NR bands | Non-RedCap aspects of band n105 added in this WI |

# 3 Justification

Redcap UE was introduced in Rel-17 (WI NR\_redcap) for NR frequency bands. Rel-18 WI NR\_redcap\_enh is introducing enhancements for RedCap but no frequency bands. In this Rel-18 WI, there are new NR bands introduced for NR RedCap UEs and these new NR bands should be introduced for RedCap in a release-independent way starting from Rel-17.

The core and performance parts have been 100% completed at RAN#102 (December 2023). It’s time for 3GPP TSG RAN WG5 to start working on the corresponding conformance testing part to meet the industry interest.

# 4 Objective

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

The objective of this work item is to update relevant UE conformance test cases for the RF Rel-18 core and performance parts for RedCap for NR FDD Band n105.

# 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 RedCap for band n105 | TSG RAN#109(Sept-25) |  |
| TS 38.508-2 | Update for RedCap for band n105  | TSG RAN#109(Sept-25) |  |
| TS 38.521-1 | Update for RedCap for band n105 in the RF specification | TSG RAN#109(Sept-25) |  |
| TS 38.523-3 | Further analysis needed based on 38.508-1 CRs | TSG RAN#109(Sept-25) |  |

# 6 Work item Rapporteur(s)

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# 7 Work item leadership

RAN 5

# 8 Aspects that involve other WGs

None

# 9 Supporting Individual Members

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| --- |
| Supporting IM name |
| Ericsson |
| Nokia |
| China Unicom |
| China Telecom |
| MediaTek |
| ASR |
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