**3GPP TSG-RAN WG4 Meeting # 102-e R4-22XXXXX**

**Electronic Meeting, 21 February – 03 March 2022**

**Agenda item:** 10.15.7

**Source:** LG Electronics

**Title:** WF on SL enhancement demodulation

**Document for:** Approval

# Introduction

*This WF is to capture the agreements on NR SL enhancement demodulation.*

# Work plan

Following work plan is for NR SL enhancement demodulation.

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| --- | --- |
| RAN4 meeting | Work plan |
| RAN4#102-e | * Discuss work scope and identify the list of performance test cases
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| RAN4#103-e | * Discuss and decide initial simulation assumptions based on identified test cases
* Do work split for test cases to prepare draft CRs for upcoming meetings
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| RAN4#104 | * Collect simulation results
* Finalize performance requirements based on collected simulation results
* Submit draft CRs and approve Big CR based on the draft CRs
* Complete V2X demodulation performance requirements
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<Depending on the conclusion of work scope in clause 2, it would be revised>

# Work scope

## Demodulation and CSI performance test – new feature in Rel-17

* Issue 2-1: Test case for demodulation and CSI performance in Rel-17
	+ Agreement: Do not define test cases for demodulation and CSI performance based on new feature introduced in Rel-17.

## Demodulation and CSI performance test – leftover issues in Rel-16

* Issue 2-2: Test case for 256QAM demodulation
	+ Tentative agreement:
		- Introduce demodulation performance test case for 256QAM.
* Issue 2-3: Test case for rank 2 demodulation
	+ Agreement: Do not define test case for rank 2 demodulation.
* Issue 2-4: Test case for con-current operation scenario (WAN+SL)
	+ Agreement: Do not define test case for con-current operation scenario.
* Issue 2-5: Test case for gNB based sync source
	+ Agreement: Do not define test case for gNB based sync source
* Issue 2-6: Test case for CSI reporting
	+ Tentative Agreement:
		- Do not introduce CSI reporting performance test case.