**3GPP TSG-RAN WG4 Meeting # 97-e R4-2017158**

**Electronic Meeting, 2-13 Nov., 2020**

**Agenda Item:** **7.7.3.1.**

**Source: Intel Corporation**

**Title: Work plan for NR Positioning RRM Performance part**

**Document for:** **Approval**

# Introduction

In [1], the work plan for NR positioning WI Rel16 was approved. In this contribution the specific work plan for the performance part requirements of this WI was updated.

# Work plan

As agreed in the last RAN plenary, NR positioning WI in Rel16 was expected to be completed in by March 2021. Therefore, for the performance part requirements in order to meet the targeted timeline, we suggest that the accuracy requirement and test cases can be discussed in parallel way.

**Proposal 1:** **The proposed work plan for NR positioning perf part can be:**

* **RAN4#97e (November 2020)**
	1. **Accuracy requirements**
		+ **Align on the link level simulation result for RSTD, UE Rx-Tx time difference and PRS-RSRP**
		+ **Discuss the principle to define the accuracy requirements for RSTD, UE Rx-Tx time difference and PRS-RSRP**
		+ **Discuss the Initial phase CR drafts**
	2. **Test cases:**
		+ **Initial discussion on the basic PRS configuration parameters**
		+ **Agree on the test case list for core and accuracy requirements**
		+ **Discuss the Initial phase CR drafts**
* **RAN4#98e (Jan 2021)**
	1. **Accuracy requirements**
		+ **Agree on the accuracy requirements for RSTD, UE Rx-Tx time difference and PRS-RSRP**
		+ **Agree on the Final phase CR**
	2. **Test cases:**
		+ **agree on the Final phase CR**

Note: The above work plan is based on current RAN plenary schedule and can be further updated if RAN Plenary extends the WI timeline.

# CR / Test case split

We also expect that necessary CR works can be split and coordinated among the different companies for timely completion of this WI.

NOTE: the table below is planned to be updated based on the agreements on TC list in RAN4 #97e

**Proposal 2: Adopt the following CR / Test case work split:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Index** | **CR Title** | **Tentative section number in [2]** | **Responsible Company** | **Note** |
| **Draft Big CR** |
|  | **Draft Big CR on NR Positioning Performance requirements for gNB/UE** |  | **Ericsson/Intel** |  |
| **UE Accuracy requirements. Report mapping** |
| **P1** | **RSTD measurement accuracy requirements** | **10.1.23** |  |  |
| **P2** | **PRS RSRP measurement accuracy requirements** | **10.1.24** |  |  |
| **P3** | **UE Rx-Tx time difference measurement accuracy requirements** | **10.1.25** | **Ericsson** |  |
| **UE Performance requirements** |
| **0** | **PRS configuration parameters** | **A3.x.** | **Intel** |  |
| **TC1** | **RSTD measurement requirements for FR1 in SA** | **A6.6.x RSTD measurements** | **Intel** |  |
| **TC 2** | **RSTD measurement requirements for FR2 in SA** | **A7.6.x RSTD measurements** | **Intel** |  |
| **TC 3** | **PRS-RSRP measurement requirements for FR1 in SA** | **A6.6.xx PRS-RSRP measurements** |  |  |
| **TC 4** | **PRS-RSRP measurement requirements for FR2 in SA** | **A7.6.xx PRS-RSRP measurements** |  |  |
| **TC 5** | **UE Rx-Tx time difference measurement requirements for FR1 in SA** | **A6.6.xxx UE Rx-Tx time difference measurements** | **Ericsson** |  |
| **TC 6** | **UE Rx-Tx time difference measurement requirements for FR2 in SA** | **A7.6.xxx UE Rx-Tx time difference measurements** | **Ericsson** |  |
| **TC 7** | **RSTD measurement accuracy for FR1 in SA** | **A6.7.x RSTD measurements** |  |  |
| **TC 8** | **RSTD measurement accuracy for FR2 in SA** | **A7.7.x RSTD measurements** |  |  |
| **TC 9** | **PRS RSRP measurement accuracy for FR1 in SA** | **A6.7.xx xx PRS-RSRP measurements** | **ZTE** |  |
| **TC 10** | **PRS RSRP measurement accuracy for FR2 in SA** | **A7.7.xx xx PRS-RSRP measurements** | **ZTE** |  |
| **TC 11** | **UE Rx-Tx time difference measurement accuracy for FR1 in SA** | **A6.7.xxx UE Rx-Tx time difference measurements** | **Ericsson** |  |
| **TC 12** | **UE Rx-Tx time difference measurement accuracy for FR2 in SA** | **A7.7.xxx UE Rx-Tx time difference measurements** | **Ericsson** |  |
|  | **FFS: NR-DC with FR1 PCell and FR2 PSCell** |  |  |  |
|  |
|  |  |  |  |  |

# Summary

This paper proposes work plan and CR splitting consideration for NR positioning RRM performance part work.

# References

1. R4-1910001, On RAN4 time plan for NR positioning
2. 3GPP TS 38.133 v16.5.0