**3GPP TSG- RAN WG1 Meeting #105-e R1-21xxxxx**

**e-Meeting, May 10th - 27th, 2021**

Agenda Item: 7.2.6

Source: Moderator (Apple Inc.), Huawei, HiSilicon

Title: Text Proposal of [105-e-NR-eMIMO-02] Email Discussion

Document for: Discussion/Decision

# Introduction

In this contribution, we provide a text proposal based on email discussion 105-e-NR-eMIMO-02.

# Text Proposal

|  |  |
| --- | --- |
| ***Reason for change:*** | The current specification has defined UE behavior for measurement restriction for L1-SINR. There is a conflict between the descriptions in TS 38.214 and 38.331. Specifically,  - In 38.214, the higher layer parameters *timeRestrictionForChannelMeasurements* and *timeRestrictionForInterferenceMeasurements* are considered as optional. Whether to apply measurement restriction for L1-SINR is determined based on whether the associated higher layer parameter is configured or not.  - In 38.331, the higher layer parameters *timeRestrictionForChannelMeasurements* and *timeRestrictionForInterferenceMeasurements* are mandatory to be present. The candidate values for the two parameters are ‘configured’ and ‘notConfigured’.  When *timeRestrictionForChannelMeasurements* or *timeRestrictionForInterferenceMeasurements* is configuredas “notConfigured”, if the UE determines whether to apply measurement restriction according to the description in 38.214, it may still be mist-interpreted as that the UE should apply measurement restriction, although the true intention of gNB is to disable measurement restriction. |
|  |  |
| ***Summary of change:*** | Update the operating conditions for applying measurement restriction for L1-SINR in 38.214 to be aligned with signalling design in 38.331, i.e., from “is not configured with” to “the value of … is configured as ‘notConfigured’”, and from “is configured with” to “the value of … is configured as ‘configured’”. |
|  |  |
| ***Consequences if not approved:*** | Inconsistency between 38.214 and 38.331. |

***Text Proposal for 38.214***

|  |
| --- |
| **5.2.1.4.4 L1-SINR Reporting**  < Unchanged parts are omitted >  When one or two resource settings are configured for L1-SINR measurement  - If the value of higher layer parameter *timeRestrictionForChannelMeasurements* in *CSI-ReportConfig* is configured as ‘notConfigured’, the UE shall derive the channel measurements for computing L1-SINR reported in uplink slot n based on only the SSB or NZP CSI-RS, no later than the CSI reference resource, (defined in TS 38.211[4]) associated with the CSI resource setting.  - If the value of higher layer parameter *timeRestrictionForChannelMeasurements* in *CSI-ReportConfig* is configured as ‘configured’, the UE shall derive the channel measurements for computing L1-SINR reported in uplink slot n based on only the most recent, no later than the CSI reference resource, occasion of SSB or NZP CSI-RS (defined in [4, TS 38.211]) associated with the CSI resource setting.  - If the value of higher layer parameter *timeRestrictionForInterferenceMeasurements* in *CSI-ReportConfig* is configured as ‘notConfigured’, the UE shall derive the interference measurements for computing L1-SINR reported in uplink slot n based on only the CSI-IM or NZP CSI-RS for interference measurement (defined in [4, TS 38.211]) or NZP CSI-RS for channel and interference measurement no later than the CSI reference resource associated with the CSI resource setting.  - If the value of higher layer parameter *timeRestrictionForInterferenceMeasurements* in *CSI-ReportConfig* is configured as ‘configured’, the UE shall derive the interference measurements for computing the L1-SINR reported in uplink slot n based on the most recent, no later than the CSI reference resource, occasion of CSI-IM or NZP CSI-RS for interference measurement (defined in [4, TS 38.211]) or NZP CSI-RS for channel and interference measurement associated with the CSI resource setting.  < Unchanged parts are omitted > |