**3GPP TSG RAN WG1 #100b R1-2xxxxxx**

**e-Meeting, April 20th – 30th, 2020**

Agenda Item: 7.2.6.3

Source: Moderator (Apple)

Title: Draft TP on Email Thread [100b-e-NR-eMIMO-MB2-02]

Document for: Discussion/Decision

# Introduction

In this contribution, we provide draft TP for email thread [100b-e-NR-eMIMO-MB2-02].

# Text Proposal

Reason for changes

In R16, it has been agreed that if WUS indicates no wake up in one DRX ON period, UE shall still report periodic CSI or L1-RSRP in that DRX ON period outside active time, if corresponding higher layer flag has been set. The same principle should be also extended to the periodic L1-SINR report outside the active time.

Summary of changes

If WUS indicates no wake up in one DRX ON period, UE can still be configured to report periodic L1-SINR in that DRX ON period outside the active time, where the configuration can be done by setting the corresponding RRC flag.

Consequences if not approved

The higher layer signaling to enable periodic CSI/L1-RSRP report outside the active time in one DRX ON period, where WUS indicates no wake up, is not applicable to periodic L1-SINR report.

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| 5.2.2.5 CSI-RS reference resource definition  […]  When DRX is configured, the UE reports a CSI report only if receiving at least one CSI-RS transmission occasion for channel measurement and CSI-RS and/or CSI-IM occasion for interference measurement in DRX Active Time no later than CSI reference resource and drops the report otherwise. When the UE is configured to monitor DCI format 2\_6 and if the UE configured by higher layer parameter [*PS-Periodic\_CSI\_TransmitOrNot*] to report CSI with the higher layer parameter *reportConfigType* set to ‘periodic’ when *drx-onDurationTimer* is not started, the UE shall report CSI during the time duration indicated by *drx-onDurationTimer* also outside active time according to the procedure described in Subclause 5.2.1.4. When the UE is configured to monitor DCI format 2\_6 and if the UE configured by higher layer parameter [*PS\_Periodic\_L1-RSRP\_TransmitOrNot*] to report L1-RSRP or L1-SINR with the higher layer parameter *reportConfigType* set to ‘periodic’ when *drx-onDurationTimer* is not started, the UE shall report L1-RSRP or L1-SINR during the time duration indicated by *drx-onDurationTimer* also outside active time according to the procedure described in subclause 5.2.1.4.  […] |

**Companies view and comments**

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| Company | Comments |
| MediaTek | This issue will be discussed in email discussion of low power. FL’s proposal is provided below.  **Proposal:**   * **Rel-16 L1-SINR is supported as an alternative measurement report of L1-RSRP using the RRC parameter PS\_Periodic\_L1-RSRP\_TransmitOrNot.**    + **Rel-16 L1-SINR use existing RRC parameter PS\_Periodic\_L1-RSRP\_TransmitOrNot**   Do we still need to discuss this issue in multi-beam? |
| ZTE | We are open to discuss this issue in Power-Saving or MIMO-MB2.  In technical, this TP is not aligned with the following power-saving agreement. If we want to avoid a new RRC parameter for L1-SINR, it seems that L1-SINR reporting should be controlled by RRC parameter *PS-Periodic\_CSI\_TransmitOrNot* rather than *PS\_Periodic\_L1-RSRP\_TransmitOrNot.*  ***Option 1:***  *ps-TransmitPeriodicCSI = TRUE: Report all types of periodic CSI, including L1-RSRP (i.e. cri-RSRP and ssb-Index-RSRP)*  *ps-TransmitPeriodicL1-RSRP = TRUE: Only report L1-RSRP (i.e. cri-RSRP and ssb-Index-RSRP)*  *In this option, the two flags cannot both be set to TRUE and it is not possible to control the UE only to report periodic CSI apart from L1-RSRP.*  ***Option 2:***  *ps-TransmitPeriodicCSI = TRUE: Report all types of periodic CSI apart from L1-RSRP (i.e. cri-RSRP and ssb-Index-RSRP)*  *ps-TransmitPeriodicL1-RSRP = TRUE: Only report L1-RSRP (i.e. cri-RSRP and ssb-Index-RSRP)*  *In this option, the two flags are independent and it is possible to control the UE only to report periodic CSI apart from L1-RSRP.*  *Agreements:*  *P-CSI and L1-RSRP reports are independently configured and to allow UE only to report periodic CSI apart from L1-RSRP*. (option 2 was agreed)  The proposed changes is copied herein for cross checking. Thanks again,  5.2.2.5 CSI-RS reference resource definition  […]  When DRX is configured, the UE reports a CSI report only if receiving at least one CSI-RS transmission occasion for channel measurement and CSI-RS and/or CSI-IM occasion for interference measurement in DRX Active Time no later than CSI reference resource and drops the report otherwise. When the UE is configured to monitor DCI format 2\_6 and if the UE configured by higher layer parameter [*PS-Periodic\_CSI\_TransmitOrNot*] to report CSI or L1-SINR with the higher layer parameter *reportConfigType* set to ‘periodic’ when *drx-onDurationTimer* is not started, the UE shall report CSI or L1-SINR during the time duration indicated by *drx-onDurationTimer* also outside active time according to the procedure described in Subclause 5.2.1.4. When the UE is configured to monitor DCI format 2\_6 and if the UE configured by higher layer parameter [*PS\_Periodic\_L1-RSRP\_TransmitOrNot*] to report L1-RSRP with the higher layer parameter *reportConfigType* set to ‘periodic’ when *drx-onDurationTimer* is not started, the UE shall report L1-RSRP during the time duration indicated by *drx-onDurationTimer* also outside active time according to the procedure described in subclause 5.2.1.4.  […] |