3GPP TSG-RAN WG2 Meeting #116bis electronic R2-220xxxx

Online, January 17 – 25, 2022

Agenda Item: 8.9.2.1

Source: MediaTek Inc.

**Title: Summary of [Post116bis-e][080][ePowSav] Open Issues (Mediatek)**

Document for: Discussion and decision

# Introduction

This document is to summarize the following offline discussion:

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| * [Post116bis-e][080][ePowSav] Open Issues (Mediatek)

 Scope: Determine if Company input by Pre117-e discussions shall be used, and how many / which Pre-discussions shall be done. Capture Open Issues not captured in the CR email discussions and suggest how to treat. [After finalization, Merge open issues from other discussions into a WI OI list (OI for which company input is invited in some way shall be listed in the WI-list).  Intended outcome: Open Issues list, and organization of Pre117-e Company input discussions for the WI.  Deadline: Short (Jan 28 0800 UTC) |

NOTE: Each open issue should be associated with suggested treatment/handling.

1.       Company input into Pre117-e-offline (i.e. no company tdocs)

2.       Company tdocs invited.

3.       CR rapporteur handled issue (CR rapporteur will propose resolution as input to next meeting).

4.       Other, e.g. immature area, reference to dependency, unclear status etc.

NOTE: Some open issues may overlap with the discussions for running CRs. The WI rapporteur will merge the open issues into one list in the end.

**Contact information**

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| --- | --- |
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# Discussion

1. **PEI and Subgrouping**

OI 1.1 [Pre117-e-offline] How to indicate whether UE monitor PEI in last used cell or any other cells?

OI 1.2 [Pre117-e-offline]: Identify valid cases where UE is unable to monitor subgroup PEI configured by network. Then decide if there can be any rule for subgroup PEI monitoring, or UE simply monitor paging as per legacy.

OI 1.3 [CR rapporteur] How to capture the agreement about subgroup ID for UEID-based subgrouping in RAN2 TS

* UE belongs to k-th paging subgroup, where k = [floor (UE Identity/(N\*Ns)) mod Nsg-UEID] + Nsg-CN,

**Q1: Do you agree with the open issue list and suggested handling for PEI/subgrouping?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Company | 1.1 | 1.2 | 1.3 | Comments |
|  |  |  |  |  |

1. **TRS/CSI-RS for Idle/inactive UE**

OI 2.1 [Pre117-e-offline] Whether / how to address the delay required for updating a TRS/CSI-RS configuration due to the eDRX acquisition period (1024 H-SFN)

OI 2.2 [Pre117-e-offline] A UE which acquired SIB-X with a TRS/CSI-RS configuration but didn’t yet receive an associated L1-based availability indication considers the configured TRS/CSI-RS as [FFS: “unavailable” or “available”]

**Q2: Do you agree with the open issue list and suggested handling for TRS/CSI-RS for Idle/inactive UE?**

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| --- | --- | --- | --- |
| Company | 2.1 | 2.2 | Comments |
|  |  |  |  |

1. **RLM/BFD Relaxation**

OI 3.1 [CR rapporteur] How to capture criteria for RLM/BFD relaxation, and the corresponding evaluation procedures, in RAN2 TS

* This is related to RAN2/RAN4 spec split. RAN2 assumes criteria for RLM/BFD relaxation

OI 3.2 [Pre117-e-offline] Can UE start/stop RLM/BFD relaxation by itself if it meets/fails the relaxation criteria?

OI 3.3 [Pre117-e-offline] Should UE report fulfilment or not (entry/exit) to network for RLM/BFD relaxation?

**Q3: Do you agree with the open issue list and suggested handling for RLM/BFD Relaxation?**

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| --- | --- | --- | --- | --- |
| Company | 3.1 | 3.2 | 3.3 | Comments |
|  |  |  |  |  |

1. **PDCCH Skip**

OI 4.1 [Other] In case UE cannot monitor DCP due to PDCCH skipping, whether a) Physical layer of UE reports a value of 1 for Wake-up indication bit to higher layer or b) Physical layer of UE does not report Wake-up indication bit to higher layer.

* Will send LS to RAN1, depending on RAN1 decision

**Q4: Do you agree with the open issue list and suggested handling for PDCCH skip?**

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| --- | --- | --- |
| Company | 4.1 | Comments |
|  |  |  |

1. **UE capabilities**

OI 5.1 [CR rapporteur] How to capture UE AS capabilities for PEI/subgrouping in RAN2 TS?

OI 5.2 [Pre117-e-offline] UE AS capabilities for RLM/BFD relaxation

OI 5.3 [CR rapporteur] How to capture PDCCH monitoring adaptation capabilities in RAN2 TS?

**Q5: Do you agree with the open issue list and suggested handling for UE capabilities for ePowSav topics?**

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| --- | --- | --- | --- | --- |
| Company | 5.1 | 5.2 | 5.3 | Comments |
|  |  |  |  |  |

# Conclusion

It is proposed to discuss and decide on the following proposals:

# Reference