**3GPP TSG-RAN Meeting #90eRP-20xxxx**

**Electronic Meeting, Dec 7-11, 2020**

**Agenda item:** 9.8.12

**Source:** Moderator (vivo)

**Title:** Summary of [90E][30][R17\_MultiSIM\_scope]

**Document for:** Discussion and Agreement

# 1 Introduction

This is the kick off of the email thread on finetuning the scope of the Rel-17 WID on MuSIM.

Goal: Generate an agreeable way forward and potential revised WID.

Input contributions covered:  2356, 2647, 2731, 2743, 2649.

* Initial round: collecting views on the detailed proposals, deadline: Dec. 8, 2020 12:29h UTC.
  + Moderator to provide intermediate summary before Dec, 8, 2020 15:29h UTC
* Intermediate round:
  + Collecting views on intermediate summary, deadline: Dec. 9, 2021 11:29h UTC
  + Moderator to provide an updated intermediate summary before Dec. 9, 2021 12:30h, UTC
  + Collecting views on updated intermediate summary, deadline for technical comments: Dec. 10, 2021 12:29h UTC
  + Moderator to provide final proposals and potential revised WID before Dec, 10, 2020 15:29h UTC
* Final round: collecting final comments, deadline: Dec. 11, 2020 11:29h UTC
  + Moderator to provide final proposals compiled based on the final rounds of comments, before Dec. 11, 2020 12:30h UTC

# 2 Contact Information

To make it easier to find the correct contact delegate in each company for potential follow-up questions, the moderator encourages the delegates who provide input to provide their contact information in this table:

|  |  |
| --- | --- |
| Company | Contact: Name (E-mail) |
| vivo | Xueming Pan <panxueming@vivo.com> |
| MediaTek Inc. | Guillaume Sébire <guillaume.sebire@mediatek.com> |
| Vodafone | chris.pudney@vodafone.com |
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# 3 Initial round: collecting views on the initial proposals

## 3.1 Topic 1: Support for E-UTRA/5GS (Option 5) due to Switching notification

Currently it is understood that for E-UTRA/5GS, only NAS based solution can be discussed. Contributions 2356 (Intel), 2647 (vivo) proposed to update the WID so that busy/leaving/swiching indication solutions for 5GS can be discussed in the WI.

**Q1: Do companies agree that the WID should be updated for LTE RRC spec (e.g., 36.331/306/304), so that busy/leaving/switching indication solutions for E-UTRA/5GS(option 5) can be further discussed in the WI?**

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| Company | Agree/Disagree | Detailed Comments |
| MediaTek Inc. | Agree | It is important to ensure solutions get discussed equally for E-UTRA and NR and decision be taken based on the merit of said solution rather than on it being e.g. not available in E-UTRA. |
| Vodafone | Agree | 3GPP has designed the 5GC to be access-agnostic. Hence TSG-RAN should not make isolated decisions to make the 5GC RAT specific.  Also agree with Mediatek. |
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## 3.2 Topic 2: Support LTE spec change for paging collision

The agreed SA2 Multi-SIM WID (S2-2009247) contained the following objective about paging reception for EPS. Contributions 2356 (Intel), 2647 (vivo) identified the RAN impact (36.304) based on the SA decisions.

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| - Enabling paging reception for EPS according to the conclusions in TR 23.761 clause 8.2.  Editor's note: The objective on enabling paging reception for EPS and the corresponding solution needs to be confirmed by RAN plenary. |

**Q2: Do companies agree that the WID should be updated for LTE RRC spec (e.g., 36.304) for supporting the below SA2 WID bullet?**

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| Company | Agree/Disagree | Detailed Comments |
| MediaTek Inc. | Agree | The IMSI offset approach can help resolving permanent collisions arising from the use of a permanent identifier (i.e. IMSI) in EPS+EPS scenarios. |
| Vodafone | Agree | Agree with Mediatek. At least 36.304 changes that can be implemented in just the UE’s NAS layer behaviour should be allowed. |
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## 3.3 Topic 3: Support of Dual Tx/Dual Rx UEs

Contribution 2731 (China Telecom, vivo, CMCC, China Unicom, Spreadtrum Communications) discussed the issue with dual Tx/ dual Rx UEs with shared Tx or Rx chains between two USIMs and proposed to consider such UE in RRC CONNECTED state in network A to switch its partial Tx chains to network B for activities and hence change its Tx capabilities in NW A. A corresponding WID update is proposed in 2743, i.e. to add the following objective

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| 1. Specify mechanism for UE to notify Network A of its update in capabilities when it tune away partial of Tx or Rx chains from Network A (for MUSIM purpose) [RAN2]:    * RAT Concurrency: Network A is NR. Network B can either be LTE or NR.    * Applicable UE architecture: Dual-Rx/Dual-Tx, |

**Q3: Do companies agree that Multi-SIM UEs support dual Tx/ dual Rx with shared Tx or Rx chains between two USIMs should be considered in Rel 17?**

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| Company | Agree/Disagree | Detailed Comments |
| MediaTek Inc. | Disagree | Existing means enable sync between the network and the UE as to the UE capabilities available for use – it is not clear from the inputs on this subject to this meeting what exactly is missing and what more should be done.  We prefer that focus and priority be put on fulfilling the other objectives first. |
| Vodafone | Candidate for R18? | The Rel 17 timeline is already under pressure, We need to be very careful before adding more work to R17. |
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**Q4: Do companies agree the scenario that UE mentioned in Q3 in RRC CONNECTED state in network A switches partial of Tx chains to network B for activities and hence change its Tx capabilities in NW A should be considered in Rel 17?**

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| Company | Agree/Disagree | Detailed Comments |
| MediaTek Inc. | See above | See above |
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**Q5: Do companies agree the scenario that UE mentioned in Q3 in RRC CONNECTED state in network A switches partial of Rx chains to network B for activities and hence change its Rx capabilities in NW A should be considered in Rel 17?**

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| Company | Agree/Disagree | Detailed Comments |
| MediaTek Inc. | See above | See above |
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# 4 Intermediate round: collecting views on intermediate summary

**TBD**

# 5 Conclusion