3GPP TSG-RAN WG2 Meeting #105 R2-19xxxxx

Athens, Greece, 24 – 28 February, 2019

Agenda Item: 10.x.x.x

Source: Qualcomm Incorporated

Title: Summary of email discussion [104#32][NR] Filtering in NR UE capability enquiry (Qualcomm)

Document for: Discussion, Decision

# Introduction

In RAN2#104 meeting, RAN2 discussed the following document addressing the lack of E-UTRA capability “filtering” in NR UE capability enquiry procedure as defined in TS38.331.

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| [R2-1817378](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_104/Docs/R2-1817378.zip) EUTRA UE capability filtering in NR UE capability enquiry Qualcomm Incorporated CR Rel-15 38.331 15.3.0 0292 1 F NR\_newRAT-Core R2-1814239 |

No conclusion was reached in the meeting and the following email discussion was agreed.

[104#32][NR] Filtering in NR UE capability enquiry (Qualcomm)

To progress the filtering of the E-UTRA capabilities in the NR UE capability enquiry

Intended outcome: Agreeable CR to next meeting

Deadline: Thursday 2019-02-07

# Proposed solution

The proposed solution in [R2-1817378](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_104/Docs/R2-1817378.zip) was to let *capabilityRequestFilter* currently defined in TS38.331 contain the *UECapabilityEnquiry* message as defined in TS36.331 to provide the UE E-UTRA capability filters. It was clarified in the proposal that certain fields in *UECapabilityEnquiry* message which are irrelevant in this particular scenario should be omitted.

# Discussion

It is proposed to discuss applicability of UE capability filters currently defined in TS36.331, and possibly new filters, when UE E-UTRA capability is requested in NR UE capability enquiry procedure.

* 1. Existing UE capability filters defined in TS36.331

The following UE capability filters are defined currently in TS36.331. Companies are requested to provide their view for each of them whether it should be applicable when UE E-UTRA capability is requested in NR UE capability enquiry procedure.

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|  | **Field name** | **Description** |
| **a** | UE-CapabilityRequest | List of RATs for which UE capability is requested |
| **b** | requestedFrequencyBands-r11 | 1 to 16 frequency bands |
| **c** | requestReducedFormat-r13 | Request to provide supported CA band combinations in the supportedBandCombinationReduced-r13 |
| **d** | requestSkipFallbackComb-r13 | Request to exclude fallback CA band combinations |
| **e** | requestedMaxCCsDL-r13 | 2 to 32 CCs |
| **f** | requestedMaxCCsUL-r13 | 2 to 32 CCs |
| **g** | requestReducedIntNonContComb-r13 | Request to exclude supported intra-band non-contiguous CA band combinations |
| **h** | requestDiffFallbackCombList-r14 | List of CA band combinations for which the UE is requested to provide different capabilities for their fallback band combinations |
| **i** | requestedFreqBandsNR-MRDC-r15 | List of NR and/ or E-UTRA frequency bands for which the UE is requested to provide its supported NR CA and/or MR-DC band combination |
| **j** | requestSTTI-SPT-Capability-r15 | Request to include the short TTI and SPT capabilities |
| **k** | eutra-nr-only-r15 | Request to include EN-DC capability, but not NR standalone capability |

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| --- | --- | --- |
| **Company** | **Items applicable** | **Comment** |
| Company-a | e.g.  *b. c. d….* | e.g.  *For a), only e-utra is applicable in this content.* |
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* 1. New UE capability filters

Companies are requested to provide their view on whether any new UE capability filter should be defined for the case UE E-UTRA capability is requested in NR UE capability enquiry procedure.

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| **Company** | **Yes / No** | **Description / Comment** |
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* 1. Signaling solution

Companies are requested to provide their view on how the applicable UE capability filters should be signaled to the UE in NR UE capability enquiry message.

1. *capabilityRequestFilter* (38.331) carrying *UECapabilityEnquiry* message (36.331)
2. *capabilityRequestFilter* (38.331) carrying newly defined IE for UE E-UTRA capability filters either in 36.331 or in 38.331
3. *Other solution A (please define)*
4. *Other solution B (please define)*

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| **Company** | **Solution** | **Comment** |
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# Conclusion

# Reference