**3GPP TSG-RAN WG2 Meeting #109bis-e R2-200**

**Electronic, 20 April – 30 April 2020**

**Agenda Item: 6.20.1.1 Open / ongoing proposals**

**Source: CMCC**

**Title: Summary for EN-DC cell reselection issue**

**Document for: Discussion and decision**

# 1 Introduction

Agreements in RAN2#108 on EN-DC cell reselection:

* We attempt to converge, based on Alt2, see CRs next meeting..

This paper is to collect companies’ views on EN-DC cell reselection based on the submitted contributions [1-10]

**[AT109bis-e][051][TEI16] EN-DC cell reselection (CMCC)**

Scope: Treat papers above on EN-DC cell reselection.

Wanted Outcome: Agreed solution, if possible Agreed-in-principle CR(s)

Deadline: April 28 0700 UTC

# 2 Companies’ views on the solution and CRs

10 contributions are submitted for this issue, as shown in the Reference [1-10]. Companies are invited to share views on the following questions to see if we can agree on the solutions or possible CRs.

The following CRs [2-4] are co-signed by 8 companies. May I check whether 36 series [2-4] CRs are agreeable?

1. [R2-2003491](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003491.zip) 36.331 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo CR Rel-16 36.331 16.0.0 4229 1 B TEI16 R2-2002038
2. [R2-2003492](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003492.zip) 36.304 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO CR Rel-16 36.304 16.0.0 0782 1 B TEI16 R2-2002037
3. [R2-2003493](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003493.zip) 36.306 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO CR Rel-16 36.306 16.0.0 1755 - B TEI16

**Q1: Whether the above CRs [2-4] are agreeable?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Y/N** | **Comments** |
| CMCC | Yes |  |
| Ericsson | Yes |  |
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The main difference between CMCC’s 36.331 CR [2] and Samsung’s 36.331 CR [9] is as follows:

* Option 1: CMCC’s 36.331 CR in [2] utilizes 1 bit *altFreqPriorities-r16* in RRC Release message to indicate whether the UE shall apply the broadcasted alternative frequency priority or not.
* Option 2: Samsung’s 36.331 CR in [9] requires all the EN-DC capable UEs to apply EN-DC cell reselection priority (same meaning as alternative frequency priority).

**Q2: Which option do you prefer?**

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| --- | --- | --- |
| **Company** | **Option** | **Comments** |
| CMCC | 1 | We would prefer the alternative priority can be flexible configured by the network. For example, network can configure the NSA only UE to apply alternative frequency priority, while let the NSA+SA UE still apply the legacy LTE frequency priority. Considering lots of UEs will support both NSA and SA, by option 2, all the NSA only UEs and NSA+SA UEs will mandate to apply EN-DC priority, which is not preferable for load balancing point of view.Therefore, we would prefer the UE camping is controlled by network side. |
| Ericsson | Option 1 | Same comments as CMCC. Option-1 gives more flexibility to the network implementation.  |
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During online and offline discussion, it has been proposed to apply the alternative frequency priority not only for NSA case, but also to extend to SA case.

For example, in some deployment [1], an operator could use them for separating EN-DC UEs and non EN-DC UEs by allowing the EN-DC UEs to access the alternate priorities. But in some other scenarios, the framework could be used for separating NR-DC capable UEs and those that do not. So, the reason for creating this flexible framework as to allow for other deployments to take advantage of this framework as well. From the UE perspective, it is blind as to why the network has configured alt priorities through RRC Release message (EN-DC related or NR-DC related or something else).

**Q3: Do you agree to extend the framework to SA case, see CRs in [5-7]?**

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| --- | --- | --- |
| **Company** | **Y/N** | **Comments** |
| CMCC | Yes |  |
| Ericsson | Yes | In our understanding, the framework designed for the NSA related changes is a generic framework. We believe the same framework can be used for SA as well. |
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# Reference

1. [R2-2003490](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003490.zip) Further consideration on EN-DC cell reselection CMCC,SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO, Xiaomi discussion Rel-16
2. [R2-2003491](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003491.zip) 36.331 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo CR Rel-16 36.331 16.0.0 4229 1 B TEI16 R2-2002038
3. [R2-2003492](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003492.zip) 36.304 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO CR Rel-16 36.304 16.0.0 0782 1 B TEI16 R2-2002037
4. [R2-2003493](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003493.zip) 36.306 CR to introduce alternative cell reselection priority for EN-DC CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO CR Rel-16 36.306 16.0.0 1755 - B TEI16
5. [R2-2003494](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003494.zip) 38.331 CR to introduce alternative cell reselection priority for SA CMCC, Ericsson, SoftBank, vivo CR Rel-16 38.331 16.0.0 1463 1 B TEI16 R2-2000915
6. [R2-2003495](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003495.zip) 38.304 CR to introduce alternative cell reselection priority for SA CMCC, Ericsson, SoftBank, vivo CR Rel-16 38.304 16.0.0 0146 1 B TEI16 R2-2000914
7. [R2-2003496](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003496.zip) 38.306 CR to introduce alternative cell reselection priority for SA CMCC, Ericsson, SoftBank, vivo CR Rel-16 38.306 16.0.0 0290 - B TEI16
8. [R2-2003724](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003724.zip) Further discussion on EN-DC cell reselection Samsung Electronics Co., Ltd discussion Rel-16 TEI16
9. [R2-2003733](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003733.zip) CR on separate cell reselection priority in EN-DC cell reselection in 36.331 Samsung Electronics Co., Ltd CR Rel-16 36.331 16.0.0 4284 - F TEI16
10. [R2-2003739](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_109bis-e%5CDocs%5CR2-2003739.zip) CR on separate cell reselection priority in EN-DC cell reselection in 38.331 Samsung Electronics Co., Ltd CR Rel-16 38.331 16.0.0 1581 - F TEI16