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

Online, 20 – 30 April 2020

**Agenda item: 4.2**

**Source: Huawei (offline email discussion rapporteur)**

**Title: Report [AT109bis-e][017][NR15] Cell Barred (Huawei)**

**Document for: Report**

# 1 Scope of the offline email discussion

This document contains the summary of the offline email discussion ”[AT109bis-e][017][NR15] Cell Barred (Huawei)” as indicated below:

* [AT109bis-e][017][NR15] Cell Barred (Huawei)

Scope: Treat R2-2003339, R2-2003773

Part 1: Determine which issues that need resolution, find agreeable proposals.

Deadline: April 23 0700 UTC

Part 2: For the parts that are agreeable, discussion will continue to agree on CRs.

# 2 Offline email discussion

[R2-2003339](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_109bis-e/Docs/R2-2003339.zip) Corrections to cell barred handling Huawei, HiSilicon CR Rel-15 38.304 15.6.0 0154 - F NR\_newRAT-Core

[R2-2003773](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2//TSGR2_109bis-e/Docs/R2-2003773.zip) Corrections to cell barred handling Huawei, HiSilicon CR Rel-16 38.304 16.0.0 0155 1 A NR\_newRAT-Core

Companies are requested to provide comments in the tables below (one row for each new comment to better keep track of the discussion – please don’t edit the previous comments).

**Question 1: Do you agree with the intention of change 1 described in the CR?**

|  |  |  |
| --- | --- | --- |
| **Company** | **Do you agree with the intention of change 1 the CR?** | **Detailed comments** |
| Qualcomm | **No** | In the existing specification, the UE shall follow the *intraFreqReselection* in *MIB* message when set to "not allowed". The change is actually not a correction and functional one as it now allows the UE to ignore this it can’t decode SIB1.  [In response to HW comment below]. I was confused with the indentation that the new “if” parts for the SIB were under the MIB indication. It seems the indentation is wrong (also the formatting of the original text). Then the change is even more confusing now that we repeat the SIB part twice.  If the may/shall is really a big problem, which I doubt since it has been there in LTE for a long time, we can just change “may” to “shall” for not acquiring SIB1 in the original text. You can also add the BW to the same clause and take care of second change. |
| Samsung | **No** | The current procedural text can be interpreted as what the CR tries to achieve i.e. there are two independent ‘if’ conditions. We think it can leave up to UE implementation as ‘may’ or ‘shall’ seems not essential in this case. |
| Huawei |  | QC and Samsung comments seem technically incorrect.  Regarding QC comment, the change does not allow UE to ignore *intraFreqReselection* - with the change, UE first checks *intraFreqReselection* in MIB (UE only applies this “else” if UE has not failed due to failing to receive MIB – so UE must have the MIB) – then checks the failure reason and applies shall or may. So with the change, UE always checks the value of *intraFreqReselection* in MIB, or uses the value which 38.331 requires to consider (There are cases where 38.331 specifies what UE considers the value of *intraFreqReselection* to be)  Regarding Samsung comment – there is a conflicting requirement in the spec – we can’t just leave to implementation without correcting the conflict. The proposed change does in fact leave it to UE implementation whether to bar for the full 300s or check earlier (“up to 300s”), so in fact the change accomodates Samsung’s proposal to leave to UE implementation, while also making this legitimate according to the specification, not leaving conflicting requirements in the specification. |
| Ericsson | **(No for now)** | 1. We had some problems to understand what the following sentence is trying to say that motivate the CR “*In case of not supporting the BW of cell the UE could check whether the BW used on other cells on this carrier before 300s expires and therefore “may” rather than “shall” should be applied for this case which needs expicit inclusion in 38.304 once the first correction is applied*”. 2. In case the UE does not support the BW of the cell, the UE shall re-select to another frequency, and not camp on a second strongest cell on that frequency, where the BW is supported. 3. We also think that the current 38.304 is clear on that aspect. |

**Question 2: Do you agree with the intention of change 2 described in the CR?**

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| --- | --- | --- |
| **Company** | **Do you agree with the intention of change 2 the CR?** | **Detailed comments** |
| Qualcomm | **Yes but** | Agree with the intention but should not be done together with first change. |
| Samsung | **No** | Our understanding is that if the UE does not support the BW of cell, the UE shall exclude the whole cells on the same frequency, which is aligned with the current RRC specification. So we think no change is needed. |
| Huawei |  | Correct that the current specification reuires that the UE bar the whole frequency for 300s, and this is what we think is undesirable because the UE may be able to find another suitale cell on the same frequency and should not be prevented from doing so. |
| Ericsson | **No** | We have the same understanding as Samsung, i.e. this is the current agreement and what is captured in the specification. The proposed CRs try to change this. We do not think the UE should camp on a second strongest cell, i.e. this may cause interference in the system when the UE tries to access. |

Conclusion: TBC

Proposal: TBC

# 3 Conclusions

**Conclusions:**

TBC

**Agreed CRs:**

TBC – in principle agreed Rel-15 and Rel-16 CRs.

# 4 List of referenced documents

1. [R2-2003339](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003339.zip) Corrections to cell barred handling Huawei, HiSilicon CR Rel-15 38.304 15.6.0 0154 - F NR\_newRAT-Core
2. [R2-2003773](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_109bis-e\Docs\R2-2003773.zip) Corrections to cell barred handling Huawei, HiSilicon CR Rel-16 38.304 16.0.0 0155 1 A NR\_newRAT-Core