3GPP TSG-RAN WG2 #110-e R2-20xxxxx

Electronic Meeting, 1st – 12th June 2020

Agenda Item: 6.10.5

Source: Ericsson

Title: [AT110e][051][DCCA] Stage-2 Updates

Document for: Discussion, Decision

# 1 Introduction

This document is to kick off the following email discussion:

* [AT110e][051][DCCA] Stage-2 Updates (vivo, Ericsson)

Scope: Treat documents under 6.10.5, determine agreeable parts and and make agreements. Implement meeting agreements in updated CRs.

Agreed CRs 36300 38300 (Ericsson) 37340 (vivo)

Deadline: June 11 0700 UTC

# 2 Discussion

Companies are requested to add their comments for each of the treated CRs of this email discussion in the boxes below (one for each CR to be treated).

## 2.1 Clarification of DAPS configuration in MR-DC

[R2-2005169](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005169.zip) Clarification of DAPS configuration in MR-DC Ericsson CR Rel-16 38.300 16.1.0 0236 - F LTE\_NR\_DC\_CA\_enh-Core

[R2-2005170](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005170.zip) Clarification of DAPS configuration in MR-DC Ericsson CR Rel-16 37.340 16.1.0 0201 - F LTE\_NR\_DC\_CA\_enh-Core

|  |  |
| --- | --- |
| Company | Comments |
| Qualcomm | It seems to be fine. But we are wondering whether it is better to discuss these 2 CRs in mobility WI because we understand the intention of the change is to capture DAPS agreements made in mobility WI. |
| CATT | The CRs seem OK. Agree with Qualcomm it belongs to mobility WI. |
| Nokia | Not OK - The CR is not very clear. We should clarify that: it is possible to configure DAPS to the UE with MR-DC, but SCells need to be released.  Or alternatively these should be discussed in mobility WI. |
|  |  |
|  |  |
|  |  |

## 2.2 Support of inter-RAT handover

[R2-2005640](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2005640.zip) 37.340 CR for Supporting inter-RAT handover during fast MCG link recovery LG Electronics Inc. CR Rel-16 37.340 16.1.0 0206 - F LTE\_NR\_DC\_CA\_enh-Core

|  |  |
| --- | --- |
| Company | Comments |
| Qualcomm | The intention of the CR is fine, but we think the case of *MobilityFromEUTRACommand* message is missing. Thus, we suggest below change in section 7.7:  =============================  it does not receive an *RRC reconfiguration* message, *MobilityFromNRCommand* message, or *MobilityFromEUTRACommand* message or *RRC release* message within a certain time after fast MCG link recovery was initiated.  Upon reception of the MCG Failure Indication, the MN can send *RRC reconfiguration* message, *MobilityFromNRCommand* message, or *MobilityFromEUTRACommand* message or *RRC release* message to the UE, using the SCG leg of split SRB1 or SRB3. Upon receiving an *RRC reconfiguration* message or *MobilityFromNRCommand* message, or *MobilityFromEUTRACommand* message, the UE resumes MCG transmissions for all radio bearers. Upon receiving an *RRC release* message, the UE releases all the radio bearers and configurations.  ======================= |
| CATT | The MobilityFromEUTRACommand should be added, for (NG)EN-DC case. The MobilityFromEUTRACommand may be used as the response to the MCG failure information. |
| Nokia | Agree with QC’s comments (with the following updates below).  Related to QC’s addition: “Upon receiving an *RRC reconfiguration* message or *MobilityFromNRCommand* message, or *MobilityFromEUTRACommand* message, the UE resumes MCG transmissions for all radio bearers. Upon receiving an *RRC release* message, the UE releases all the radio bearers and configurations “  🡪 We wonder if addition of the “MobilityFrom…” both messages in this sentence is correct since probably none of the UE’s radio bearers will survive inter-RAT mobility, so UE’s transmissions on them cannot resume either.  We think these may need to be removed.  Additionally, similar addition of MobilityFromEUTRACommand message in section 7.5:  … an encapsulated RRC reconfigurationmessage, *MobilityFromNRCommand* message, *MobilityFromEUTRACommand* message, or RRC release message in the *DLInformationTransferMRDC* message. |
|  |  |
|  |  |
|  |  |

## 2.3 Support of asynchronous NR-DC

[R2-2006014](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2006014.zip) Support of asynchronous NR-DC ZTE Corporation (Rapporteur) CR Rel-16 37.340 16.1.0 0207 - B LTE\_NR\_DC\_CA\_enh-Core

|  |  |
| --- | --- |
| Company | Comments |
| Qualcomm | We agree with the intention of the CR. However, we suggest to use bullets to make different synchronization cases more clearly. For example:  *Depending on UE's capabilities, NR-DC may require below synchronization between PCell and PSCell:*   1. *slot-level with SFN synchronization* 2. *slot-level without SFN synchronization* 3. *neither slot-level nor SFN synchronization* |
| CATT | We agree with the CR. |
| Nokia | We do not agree with QC’s proposal:  In RAN#81, was agreed that: In alignment with the previous agreements, ask RAN1 and RAN4 to explicitly include restriction to synchronous mode NR-NR DC in the Rel-15 specifications (RP-181708). RAN endorsed the proposal and reconfirmed restriction to synchronous case for REL-15.  Therefore:  We think that 1) is not needed, so having one level for sync case should be enough. Additionally, RAN4 defines just what is the time difference requirement between slot boundaries, so option 2) should be enough.  Therefore, we think: 2) & 3) are enough, i.e. “slot-level without SFN synchronization” and “neither slot-level nor SFN synchronization”.  Based on this, the CR text could be updated as:  “Depending on UE's capabilities, NR-DC may require slot-level synchronization between PCell and PSCell, ~~with or~~ without SFN synchronization between PCell and PSCell, or no synchronization at all. “ |
|  |  |
|  |  |
|  |  |

## 2.4 Agreements on fast MCG recovery

[R2-2004502](file:///D:\Documents\3GPP\tsg_ran\WG2\TSGR2_110-e\Docs\R2-2004502.zip) Capture latest agreements on fast MCG recovery vivo CR Rel-16 37.340 16.1.0 0200 - B LTE\_NR\_DC\_CA\_enh-Core

|  |  |
| --- | --- |
| Company | Comments |
| Qualcomm | We agree with CR |
| CATT | The note2 will preclude the case of inter-RAT handover via SRB1 which was agreed   * RAN2 assumes it is feasible to support inter-RAT HO during fast MCG recovery.   So the note2 should delete the “apart from inter-RAT handover”  NOTE2: ~~Apart from inter-RAT HO,~~ all handover scenarios according to Table B-1 that have a DC option in the column “from” are supported during fast MCG failure recovery. |
| Nokia | Agree with Note1 section 7.7., but with clarifications from Section 2.2 (above in this email discussion) included.  Related to Note2 - Table B-1: Supported MR-DC handover scenarios, maybe we could clarify a bit as:  NOTE2: ~~Apart from inter-RAT HO~~, ~~a~~ All intra-RAT handover scenarios according to Table B-1 that have a DC option in the column “from” are supported during fast MCG failure recovery.  Note 3 – OK. |
|  |  |
|  |  |
|  |  |

# Conclusion

In the previous sections we made the following observations:

Based on the discussion in the previous sections we propose the following:

# References

[1]