3GPP TSG-RAN WG2 Meeting #111 R2-200xxxx

Elbonia, Online, 17 – 28 August 2020

**Agenda item: 6.7.1**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Report from [AT111-e][202][MOB] LTE and NR mobility Stage-2 corrections (Nokia)**

**WID/SID: LTE\_feMob-Core/NR\_Mob\_enh-Core - Release 16**

**Document for: Discussion and Decision**

# 1 Brief scope of the paper

This document aims at collecting companies’ views regarding the Stage-2 corrections related to Rel-16 Mobility enhancements:

**[AT111-e][202][MOB] LTE and NR mobility Stage-2 corrections (Nokia)**

Scope:

* Collect companies’ feedback for the Stage-2 contributions under 6.7.1, 6.7.3 and 7.4.1 marked for this email discussion
* Proponents may provide updated versions (if needed) under this email discussion (Tdoc numbers can be requested for this purpose from the session chair or the RAN2 secretary)

        Intended outcome:

* Discussion summary in [R2-2008132](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_111-e/Docs/R2-2008132.zip) (by email rapporteur).
* Email discussion report treated during the 2nd online session, but session chair may propose intermediate conclusions after summary is available

        Deadline for providing comments, for rapporteur inputs, conclusions and CR finalization:

* Deadline for companies' feedback:  Thursday 2020-08-20 09:00 UTC
* Deadline for rapporteur's summary (in [R2-2008132](https://www.3gpp.org/ftp/TSG_RAN/WG2_RL2/TSGR2_111-e/Docs/R2-2008132.zip)):  Friday 2020-08-21 09:00 UTC
* Deadline for CR finalization (for agreed CRs): Wednesday 2020-08-26 07:00 UTC

# 2 Corrections to TS 37.340

## 2.1 Figures and description for CPC

[1], [2] and [3] suggest TS 37.30 changes to the figures and corresponding description for Conditional PSCell Change (CPC). There are various approaches presented: in [1] the names of the messages in section 10.3.1 of TS 37.340 are changed (to match the correct RAT nomenclature). In addition, ‘’if the SR3 is configured’’ is removed. The authors of [2] propose a new figure wherein RRCReconfigurationComplete (forwarded to the SN, embedded in RRC Transfer) is additionally shown. The authors of [3] introduce two new figures in section 10.3.2 of TS 37.340, to separately depict and describe CPC cases and remove the confusion in the existing figures (e.g. step 3a, not shown in the figures).

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| **Question 1: Do you agree sections 10.3.1 and 10.3.2 of TS 37.340 require changes? If so, please indicate which CRs ([1], [2], [3]) are relevant and which other potential changes do you find necessary?** | | |
| **Company** | **CR or CRs** | **Comments** |
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## 2.2 SCG handling in DAPS handover

The authors of [4] claim it is unclear how MR-DC configurations are handled in case of DAPS HO. It is proposed to add a subclause informing MR-DC is not supported together with DAPS. Thus, SCG configuration should be released before DAPS HO command is sent to the UE.

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| **Question 2: Do you agree with what is proposed in [4] and the need of such TS 37.340 CR?** | | |
| **Company** | **Yes/No** | **Comments** |
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## 2.3 Editorial change of CPC subsection

In [5] a minor correction fixing wrong indentation is proposed. Please share your view below only if you think this is not needed or shall be addressed in a different manner (i.e. not via a separate CR, covering just such tiny change).

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| **Question 3: Shall the editorial issue in [5] be addressed? Do we need a separate CR for such changes?** | | |
| **Company** | **Yes/No** | **Comments** |
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# 3 Corrections to TS 38.300 and 36.300

## 3.1 DAPS with MR-DC

[6] and [7] comprise corresponding changes to what has been described in [4]. [6] and [7] modify just the NOTEs, not the procedural text. [8] suggests a similar NOTE change to LTE Stage-2 specification. Do you think the CRs in [6], [7] and [8] are needed?

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| **Question 4: Do you support changes in [6] and [7] or [8], modifying the NOTEs regarding DAPS and MR-DC coexistence?** | | |
| **Company** | **Yes/No** | **Comments** |
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## 3.2 Various corrections

CR in [9] suggests various corrections to MobEnh related description in TS 38.300. Please comment in the table below whether you are fine with these.

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| **Question 5: Do you support changes in [9]? Please indicate which changes are possibly OK/NOK, if the entire CR is not acceptable.** | | |
| **Company** | **Yes/No** | **Comments** |
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## 3.3 UL data switching for DAPS

The authors of [10][11] suggest the description of DAPS operation should be updated, to reflect entirely the agreement made in the past: ‘’ the UE continues the downlink user data reception from the source eNB until releasing the source cell and continues the uplink user data transmission to the source eNB until successful random access procedure to the target eNB’’. Please share in the table below your view whether such changes are needed:

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| **Question 6: Do you support changes in [10] and [11]?** | | |
| **Company** | **Yes/No** | **Comments** |
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## 3.4 ‘Not released’ versus ‘still available’

The authors of [12] propose to change the description in TS 38.300 by replacing ‘not released’ with ‘still available’. While the rapporteur finds this CR awkward, it is fair to ask the companies if they are willing to pursue such change.

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| **Question 7: Do you support a change in [12]?** | | |
| **Company** | **Yes/No** | **Comments** |
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## 3.5 NOTEs for DAPS with CHO and release of DAPS

The authors of [13] and [14] propose the NOTEs to Stage-2 LTE and NR specifications, saying CHO cannot be configured with DAPS and another one, saying when DAPS is completed and what cannot be configured prior to completing DAPS. Please respond whether we need such NOTEs in LTE and NR Stage-2 specifications:

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| **Question 8: Do you think NOTEs in [13] and [14] are needed and should be agreed?** | | |
| **Company** | **Yes/No** | **Comments** |
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## 3.6 CHO Stage-2 corrections

In [15] various corrections to CHO are proposed (e.g. change the reference to CHO A3 and A5 events, etc.) Do you support the entire CR, only a subset of changes do not support it at all?

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| **Question 9: Do you support the changes proposed in [15]?** | | |
| **Company** | **Yes/No** | **Comments** |
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And finally, in [16] there is a proposal to clarify that CHO does not apply to LTE-5GC case. Do companies think such clarification is useful and shall be agreed?

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| **Question 10: Do you support the change proposed in [16]?** | | |
| **Company** | **Yes/No** | **Comments** |
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# 4 Conclusions

Based on the views expressed in the previous sections, we propose the following:

# 5 List of referenced documents

[1] R2-2007016 Minor Correction for CPC Configuration Related Procedure, 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[2] R2-2007595 Correction of signalling flow for CPC, 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[3] R2-2007360 Corrections to CPC with and without SRB3 involved 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[4] R2-2007266 37.340\_CR0219(Rel-16) R2-2007266- SCG handling at DAPS HO 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[5] R2-2007542 Correction for editorial structure of CPC section 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[6] R2-2007698 Clarification on SCells and SCG release at DAPS HO 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[7] R2-2007699 Clarification on SCells and SCG release at DAPS HO 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[8] R2-2007358 Clarification on no DAPS HO in MR-DC 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[9] R2-2007359 Various corrections to NR Mobility enhancements description 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[10] R2-2008074 Correction on TS36.300 for uplink data switching in DAPS 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[11] R2-2008076 Correction on TS38.300 for uplink data switching in DAPS 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[12] R2-2008075 Correction on TS38.300 for source fallback in DAPS 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[13] R2-2007496 DAPS handover corrections 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[14] R2-2007497 DAPS handover corrections 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[15] R2-2007763 Correction on TS36.300 for CHO 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020

[16] R2-2007762 Correction on CHO for LTE-5GC 3GPP TSG-RAN WG2 Meeting #111 electronic Online, August 17th - 28th, 2020