3GPP TSG-RAN WG2 Meeting #109bis-e R2-20xxxxx

Elbonia, 20 – 30 April 2020

**Agenda item: 6.20.2.1**

**Source: Nokia (Rapporteur)**

**Title: Offline 053 on LCP Mapping Restrictions**

**WID/SID: TEI - Release 16**

**Document for: Discussion and Decision**

# 1 Introduction

This document is the report of the following email discussion:

LCP Mapping Restrictions

[R2-2002740](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002740.zip) LCP Mapping Restrictions Nokia, Deutsche Telekom, Ericsson, Fujitsu, Nokia Shanghai Bell, NTT DOCOMO INC., T-Mobile discussion Rel-16 TEI16 [R2-2000576](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2000576.zip)

[R2-2002741](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002741.zip) Dynamic LCP Mapping Restrictions Nokia, Deutsche Telekom, Fujitsu, Nokia Shanghai Bell, NTT DOCOMO INC., T-Mobile CR Rel-16 38.321 16.0.0 0689 1 B TEI16 [R2-2000577](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2000577.zip)

[R2-2002835](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002835.zip) Cell restriction for CA duplication OPPO discussion Rel-16 TEI16 [R2-2000406](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2000406.zip)

* [AT109bis-e][053][TEI16] LCP Mapping Restrictions (Nokia)

Scope: Treat papers above on LCP Mapping Restrictions.

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

Deadline: April 28 0700 UTC

# 2 Discussion

For several meetings, a number of contributions have suggested that LCP Mapping Restrictions need to be dynamically adjusted beyond what RRC already offers. Some possible scenarios include:

- TCP performance [[R2-2002740](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002740.zip)];

- Overload situation [[R2-2002740](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002740.zip)];

- Mobility Events on high frequencies [[R2-2002740](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002740.zip)];

- Duplication activation/deactivation [[R2-2002835](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002835.zip)].

**Question 1:** do you agree with the need to adjust LCP Mapping Restrictions beyond what RRC already allows.

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| Answers to Question 1 |
| Company | Yes/No | Technical comments to justify your answer (one may refer to the scenarios listed above to explain his/her views) |
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**Summary 1**: TBD.

**Proposal 1**: TBD.

Assuming that LCP Mapping Restrictions need to be dynamically adjusted, we then need to discuss what mechanism needs to be introduced. Two approaches have been suggested:

- A generic mechanism based on MAC CE to enable/disable the LCP mapping restrictions [[R2-2002740](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002740.zip)];

- Link the LCP mapping restrictions to the activation/deactivation of duplication [[R2-2002835](http://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_109bis-e/Docs/R2-2002835.zip)].;

**Question 2:** assuming that LCP Mapping Restrictions need to be dynamically adjusted, which mechanism addresses the scenarios you have in mind.

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| Answers to Question 2 |
| Company | Preferred Mechanism | Technical comments to justify your answer |
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**Summary 2**: TBD.

**Proposal 2**: TBD.

# 3 Conclusion

TBD.