3GPP TSG-RAN WG1 Meeting #102-e Tdoc R1-20xxxxx

e-Meeting, August 17th – 28th, 2020

**Agenda Item: 8.6**

**Title: FL summary on initial collection of RedCap evaluation results**

**Source: Moderator (Ericsson, Apple, Qualcomm)**

**Document for: Discussion, Decision**

# 1 Introduction

This FL summary captures Phase 2 of the following RAN1#102-e post-meeting email discussion.

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| [102-e-Post-NR-RedCap-01] Email discussion/approval – Johan (Ericsson)/Hong (Apple)/Chao (Qualcomm)  Phase 1 (9/10-9/29): template for evaluations, including:   * Cost reduction estimates * Power saving estimates * Coverage recovery and capacity impact simulation results   Phase 2 (9/30-10/21)   * Initial collection of the above evaluation results |

Phase 1 of the above email discussion is documented in [R1-2007476](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2007476.zip), [R1-2007477](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2007477.zip), [R1-2007478](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2007478.zip) and [R1-2007481](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2007481.zip). Check the two last ones of these documents ([R1-2007478](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2007478.zip), [R1-2007481](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Docs/R1-2007481.zip)) for guidance on how to fill out the templates.

# 2 Cost reduction evaluation

Companies are invited to provide their evaluation results in the spreadsheet in this folder (using the normal file naming convention used for discussion documents in RAN1 email discussions):

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/8.6/PostPhase2/RedCapCost/>

Any additional comments can be provided below.

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| **Company** | **Comments on cost reduction evaluation** |
| SONY | Note that in the spreadsheet (v017), our results for bandwidth reduction considered that bandwidth reduction and reduction of TBS were separate issues. If the TBS reduces in line with the bandwidth, the LDPC decoding and HARQ buffer requirements would become 2% / 2.8% respectively for FR1 FDD and 1.8% / 2.4% for FR1 TDD |
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# 3 Power saving evaluation

Companies are invited to provide their evaluation results in the spreadsheet in this folder (using the normal file naming convention used for discussion documents in RAN1 email discussions):

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/8.6/PostPhase2/RedCapPower/>

Any additional comments can be provided below.

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| **Company** | **Comments on power saving evaluation** |
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# 4 Coverage recovery evaluation

Companies are invited to provide their evaluation results in the spreadsheets in these folders (using the normal file naming convention used for discussion documents in RAN1 email discussions):

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/8.6/PostPhase2/RedCapCoverage/700MHz/>

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/8.6/PostPhase2/RedCapCoverage/2.6GHz/>

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/8.6/PostPhase2/RedCapCoverage/4GHz/>

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/8.6/PostPhase2/RedCapCoverage/28GHz/>

Any additional comments can be provided below.

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| **Company** | **Comments on coverage recovery evaluation** |
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# 5 Capacity impact evaluation

Companies are invited to provide their evaluation results in the spreadsheet in this folder (using the normal file naming convention used for discussion documents in RAN1 email discussions):

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_102-e/Inbox/drafts/8.6/PostPhase2/RedCapCapacity/>

Any additional comments can be provided below.

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| **Company** | **Comments on capacity impact evaluation** |
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