3GPP TSG-RAN WG2 Meeting #121-bis electronic R2-2xxxxxx

Online, April 17-26, 2023

Agenda item: 8.10

Source: Session Chair (Ericsson)

Title: Report from eRedCap breakout session

# Organizational

## At meeting email discussions:

* [AT121bis-e][750] Organizational – eRedCap (Ericsson)

Scope:

* + - Share plans for the meeting and list of ongoing email discussions
		- Share meetings notes and agreements for review and endorsement

      Intended outcome:

* + - General information sharing about the sessions

      Deadline:

* + - Deadline: EOM
* [AT121bis-e][751] eDRX for RRC\_INACTIVE (OPPO)

Scope:

* + - Summarize and identify agreeable proposals for agenda item 7.19.2

      Intended outcome:

* + - Report with agreeable proposals in R2-2304361

Deadline:

* + - Deadline for comments: Wednesday 23:59 UTC
		- Rapporteur proposals: Thursday 10:00 UTC
		- Document deadline: 1h before session
* [AT121bis-e][752] Further reduced UE complexity in FR1 (Huawei)

Scope:

* + - Summarize and identify agreeable proposals for agenda item 7.19.3

      Intended outcome:

* + - Report with agreeable proposals in R2-2304362

      Deadline:

* + - Deadline for comments: Wednesday 23:59 UTC
		- Rapporteur proposals: Thursday 10:00 UTC
		- Document deadline: 1h before session

## Schedule:

**Dates and deadlines (see also RP-230050)**

March 31st Deadline for Long email discussions into R2 121.

April 3rd – 7th Inactive period, no email discussions.

April 7th 1000 UTC **Tdoc Submission Deadline**.

April 17th 0700 UTC **e-Meeting Start** (by email), Week 1
Rapporteurs in non-favourable time zones may kick off AT meeting offline / email discussions before meeting start (at most 12h before). It is assumed that participants starts paying attention to offline / email discussions after e-meeting start.

April 21st 1000 UTC **Weekend break**, Suspend decision making in email discussions (= no deadlines etc). It should be possible for a delegate to take the weekend off, rejoin and not miss decisions.

April 24th 1000 UTC **Resume after weekend**. Resume decision making in email discussions, Week 2.

April 26th 1000 UTC **e-Meeting Stop**, no more technical comments for AT-meeting email discussions. Decision confirmations announced within 24h. Session notes for email checking.

April 28th 1000 UTC Deadline Short Email Discussions (***limited possibility*** - for very short email discussions, if needed short email discussion can be started before e-meeting Stop). E.g. for LS outs, or other priority topics e.g. conclusion of R17 CRs.

May 1st – 5th Inactive period, no email discussions.

May 12th 1000 UTC Tdoc submission deadline RAN2 122 (next meeting).

 Very limited possibility for long email discussions.

**Web Conference Schedule**

Note that this schedule is indicative and can change. After Week 1 the schedule for Week 2 will be updated.

**WEEK 1:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time ZoneUTC** | **Web Conference R2 - Main** | **Web Conference R2 - BO1** | **Web Conference R2 - BO2** | **Offline GTW Session** **(limited use, only specific issues if needed, need approval by session chair)** |
| **Monday** |  |  |  |  |
| 12:30-13:30 | NR18 Mobility Enh [2] (Johan) | NR18 XR [2] (Tero) | NR18 SL Relay [1.5] (Nathan) |  |
|  |
| 13:30-14:30 | NR18 Mobile IAB [0.5] (Johan) | NR18 UAV [1] (Diana) | NR18 Pos [2] (Nathan) |  |
|  |
| 14:30-15:30 | NR18 AIML [1] (Johan) | NR18 NCR [0.5] (Sasha) | Maintenance Early items (Nathan Kyeongin/Qianxi) |  |
|  |
| **Tuesday** |  |  |  |  |
| 12:30-13:30 | NR18 LP WUS [0.5] (Johan)  | NR18 NTN enh [1] (Sergio) | NR18 SL evolution [1] (Kyeongin/Qianxi) |  |
|  |
| 13:30-14:30 | NR18 Other [2] (Johan) | NR18 NTN enh [1] (Sergio) | NR18 SL evolution [1] (Kyeongin/Qianxi) |  |
|  |
| 14:30-15:30 | NR18 Mobility Enh [2] (Johan) | Maintenance Early Items (Sergio, Tero) | NR18 SL evolution [1] (Kyeongin/Qianxi) |  |
|  |
| **Wednesday** |  |  |  |  |
| 12:30-13:30 | NR18 AIML [1] (Johan) | NR18 QoE [1] (Tero) | NR18 SL Relay [1.5] (Nathan) |  |
|  |
| 13:30-14:30 | – TBD (Johan) | NR18 Network Energy Saving [1] Early items (Diana) | NR18 SL Relay [1.5] (Nathan) |  |
| NR18 MBS UP/CP [0.75] (Dawid) |  |
| 14:30-15:30 | NR18 MBS [0.75] (Dawid) | NR18 URLLC [0.5] (Diana) | NR18 Pos [2] (Nathan) |  |
|  |
| **Thursday** |  |  |  |  |
| 03:30-04:30 | NR18 Other [2], NR18 TEI [1] (Johan) | NR18 XR [2] (Tero) | LTE18 IoT NTN [1] (Sergio)  |  |
|  |
| 04:30-05:30 | NR18 Mobility Enh [2] (Johan) | NR18 XR [2] (Tero) | LTE18 IoT NTN [1] (Sergio)  |  |
|  |
| **Friday** |  |  |  |  |
| 03:30-04:30 | NR18 MIMO evo [0.5] (Erlin) | eRedcap [1] (Mattias)7.19.1 Organizational7.19.2 Enhanced eDRX in RRC\_INACTIVEIncl. AT-meeting email disc summary7.19.3 Further reduced UE complexity in FR1Incl. AT-meeting email disc summary  | NR18 SONMDT [0.5] (HuNan) |  |
|  |
| 04:30-05:30 | NR18 fCovEnh [0.5] (Eswar) | NR18 Pos [2] (Nathan) |  |
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**WEEK 2:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Time ZoneUTC** | **Web Conference R2 - Main** | **Web Conference R2 - BO1** | **Web Conference R2 - BO2** | **Offline GTW Session****(limited use, only specific issues if needed, need approval by session chair)** |
| **Monday** |  |  |  |  |
| 12:30-13:30 | NR18 Mobility Enh [2] (Johan) | NR18 XR [2] (Tero) | NR18 Pos [2] (Nathan) |  |
|  |
| 13:30-14:30 | Maintenance CB (Johan) | NR18 MUSIM [0.5] (Tero) | NR18 UAV [1] (Diana) |  |
|  |
| 14:30-15:30 | Maintenance CB (Johan) | CB (Sergio, Tero) | NR18 Network Energy Saving [1] (Diana) |  |
|  |
| **Tuesday** |  |  |  |  |
| 12:30-13:30 | Maintenance CB (Johan) | NR18 QoE [1] (Tero) | Maintenance CB (Diana) |  |
|  |
| 13:30-14:30 | NR18 CBs (Sasha) | NR18 CBs (Sergio) | NR18 CB (Diana) |  |
|  |
| 14:30-15:30 | NR18 CBs  | NR17/18 CBs (Dawid) | CBs (Kyeongin/Qianxi) |  |
|  |
| **Wednesday** |  |  |  |  |
| 03:30-04:30 | NR18 CBs (All?) | NR18 CBs (Mattias?) | NR18 CBs (Nathan) |
| 04:30-05:30 | CB (All)  | CB (Sergio?) | CB (Nathan?) |

## 7.19 Enhanced support of reduced capability NR devices

(NR\_redcap\_enh-Core; leading WG: RAN1; REL-18; WID: RP-223544)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 7.19.1 Organizational

Incoming LSs, etc.

R2-2302417 Reply LS on long eDRX support for RRC\_INACTIVE (R3-230803; contact: Ericsson) RAN3 LS in Rel-18 FS\_REDCAP\_Ph2 To:SA2, RAN2

### 7.19.2 Enhanced eDRX in RRC\_INACTIVE

PTW location and duration in overlapping/non-overlapping PHs. Which paging to monitor in the PTWs/calulation of T.

Fallback behaviour when UE moves to cell not supporting INACTIVE eDRX > 10.24s.

Support of INACTIVE eDRX (only for UEs supporting Rel-17 eDRX?).

R2-2302496 Fallback behaviour for eRedcap UE NEC discussion NR\_redcap\_enh-Core

R2-2302497 Paging monitoring for Inactive UE in enhanced eDRX NEC discussion NR\_redcap\_enh-Core

R2-2302531 Discussion on enhanced eDRX in RRC\_INACTIVE OPPO discussion Rel-18 NR\_redcap\_enh-Core

R2-2302565 Discussion on enhanced eDRX in RRC\_INACTIVE CATT discussion Rel-18 NR\_redcap\_enh-Core

R2-2302642 Discussion on enhanced eDRX in RRC\_INACTIVE China Telecommunications discussion Rel-18 NR\_redcap\_enh-Core

R2-2302703 Discussion on e-DRX for eRedcap Devices Xiaomi Communications discussion

R2-2302735 RAN2 impacts to support eDRX in RRC\_INACTIVE above 10.24 sec Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

R2-2302803 On eDRX for enhanced RedCap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

R2-2302815 Discussion on UE fallback behaviour for INACTIVE eDRX vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

R2-2302816 Enhanced eDRX cycle in RRC\_INACTIVE for eRedCap UEs vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

R2-2302824 Further discussion on longer eDRX in RRC\_INACTIVE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

R2-2303304 Enhanced eDRX in RRC\_INACTIVE MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core

R2-2303321 Discussion on available eDRX configurations Samsung discussion Rel-18

R2-2303322 Discussion on enhanced eDRX in RRC\_INACTIVE Samsung discussion Rel-18

R2-2303396 RedCap PTW/PH operation for >10.24sec INACTIVE eDRX Apple discussion Rel-18 NR\_redcap\_enh-Core

R2-2303397 RedCap UE behavior in cells not supporting R18 eDRX Apple discussion Rel-18 NR\_redcap\_enh-Core

R2-2303468 Discussion on enhanced eDRX in RRC\_INACTIVE Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

R2-2303542 Discussion on eDRX in RRC\_INACTIVE CMCC discussion Rel-18 NR\_redcap\_enh-Core

R2-2303561 Discussion on enhanced eDRX in RRC inactive Qualcomm Incorporated discussion NR\_redcap\_enh-Core

R2-2304063 Extending eDRX cycles in RRC\_INACTIVE Ericsson discussion Rel-18 NR\_redcap\_enh-Core

### 7.19.3 Further reduced UE complexity in FR1

Early indication.

Access restriction for eRedCap.

Capability related, e.g. how to define an eRedCap UE.

R2-2302528 Discussion on access restriction for eRedCap Futurewei discussion Rel-18 NR\_redcap\_enh-Core

R2-2302532 Discussion on early indication for eRedCap UE OPPO discussion Rel-18 NR\_redcap\_enh-Core

R2-2302544 Discussion on cellbarring for eRedCap UEs OPPO discussion Rel-18 NR\_redcap\_enh-Core

R2-2302566 Discussion on further UE complexity reduction CATT discussion Rel-18 NR\_redcap\_enh-Core

R2-2302640 Discussion on access restriction and capability related for eREDCAP China Telecommunications discussion Rel-18 NR\_redcap\_enh-Core

R2-2302641 Discussion on Early Indication for eREDCAP China Telecommunications discussion Rel-18 NR\_redcap\_enh-Core

R2-2302704 Discussion on early indication for eRedcap devices Xiaomi Communications discussion

R2-2302705 Discussion on UE access restrictions and other impacts for eRedcap devices Xiaomi Communications discussion

R2-2302736 RAN2 impacts to support Rel-18 RedCap UEs Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

R2-2302737 Capability impacts to support Rel-18 RedCap UEs Intel Corporation discussion Rel-18 NR\_redcap\_enh-Core

R2-2302802 On access restrictions for enhanced RedCap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

R2-2302817 Discussion on access restriction and capability for eRedCap vivo, Guangdong Genius discussion Rel-18 NR\_redcap\_enh-Core

R2-2302825 Early indication and access restriction for eRedCap UE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

R2-2302826 Capability definition and report for eRedCap UE ZTE Corporation, Sanechips discussion Rel-18 NR\_redcap\_enh-Core

R2-2302949 Discussion on early indication and access restriction for eRedCap NEC discussion Rel-18 NR\_redcap\_enh-Core

R2-2303069 Early identification and access restriction for eRedCap UEs Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

R2-2303070 Discussion on how to define and capture the capability of eRedCap UEs Huawei, HiSilicon discussion Rel-18 NR\_redcap\_enh-Core

R2-2303149 Discussion on access restriction for eRedCap Sharp discussion

R2-2303305 Early identification for eRedCap devices MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core

R2-2303306 Access restrictions for eRedCap devices MediaTek Inc. discussion Rel-18 NR\_redcap\_enh-Core

R2-2303323 Discussion on early indication and access restriction Samsung discussion Rel-18

R2-2303543 Discussion on further reduced UE complexity CMCC discussion Rel-18 NR\_redcap\_enh-Core

R2-2303562 Discussion on further complexity reduction for eRedCap UE Qualcomm Incorporated discussion NR\_redcap\_enh-Core

R2-2303563 Discussion on optional UE capability filter for eRedCap UE Qualcomm Incorporated, Ericsson, Intel discussion NR\_redcap\_enh-Core R2-2301294

R2-2303568 Discussion on further reduced UE complexity in FR1 for Rel-18 RedCap UE Spreadtrum Communications discussion Rel-18

R2-2303657 Early indication and access restrictions for eRedCap UE Sierra Wireless. S.A. discussion

R2-2303689 On early indication for enhanced RedCap Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_redcap\_enh-Core

R2-2304010 Further discussion on early indication for Rel-18 RedCap UE LG Electronics Inc. discussion Rel-18 NR\_redcap\_enh-Core

R2-2304062 Early indication for eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core

R2-2304064 Discussion on cell barring for eRedCap UEs Ericsson discussion Rel-18 NR\_redcap\_enh-Core

R2-2304069 Discussion on further UE complexity reduction for eRedCap NTT DOCOMO INC. discussion Rel-18 NR\_redcap\_enh-Core

=> Revised in R2-2304190

R2-2304190 Discussion on further UE complexity reduction for eRedCap NTT DOCOMO INC. discussion Rel-18 NR\_redcap\_enh-Core

R2-2304171 Considerations on Further reduced UE complexity for eRedcap Sequans Communications discussion Rel-18 NR\_redcap\_enh-Core