3GPP TSG-RAN2 Meeting #121 R2-230xxxxx

Athens, Greece, 27 February – 3 March 2023

Agenda Item: 6.2.2

Source: Huawei, HiSilicon

Title: Report of [AT121][602][MBS-R17] Remaining RRC CRs (Huawei)

Document for: Discussion and Decision

# 1 Introduction

This document aims at summarizing the following offline discussion:

* [AT121][602][MBS-R17] Remaining RRC CRs (Huawei)

      Scope: Treat remaining issues submitted to 6.2.2, i.e. check with companies which changes are needed and agreeable and which are not. Capture the agreements from the online session in the RRC (e.g. related to NPN).

      Outcome: Report summarizing which CRs/changes can be agreed and which not, can consider preparing a common CR with agreeable changes, if needed/more convenient.

      Deadline:  Friday CB session

# 3 Discussion of RRC CRs

1. [R2-2300194](file:///C:\Users\Dwx974486\Documents\3GPP\Extracts\R2-2300194%20Corrections%20to%20TS%2038.331.docx) Corrections to TS 38.331 CATT, CBN CR Rel-17 38.331 17.3.0 3782 - F NR\_MBS-Core

Rapporteur’s understanding:

* For the first change, it is not essential to specify when UE stops monitoring MCCH-RNTI.
* For the second change and the third change, they are fine.

**Offline Conclusion:**

**?? We agree the second change and the third change.**

1. [R2-2301669](file:///C:\Users\Dwx974486\Documents\3GPP\Extracts\R2-2301669%20MBS%20corrections%20for%20RRC%20Release%20procedure.docx) MBS corrections for RRC Release procedure Sharp draftCR Rel-17 38.331 17.3.0 F NR\_MBS-Core

Rapporteur’s understanding:

* The re-establishment behavior during sdt shouldn’t affect the ongoing broadcast MRBs. So the change can be agreed.

[LG] We agree to the change.

**Offline Conclusion:**

**?? The CR is agreed.**

1. [R2-2301806](file:///C:\Users\Dwx974486\Documents\3GPP\Extracts\R2-2301806%20Correction%20to%20UL%20configuration.docx) Correction to UL configuration for multicast MRB Google Inc. CR Rel-17 38.331 17.3.0 3923 - F NR\_MBS-Core

Rapporteur’s understanding:

* The intention is OK. But the field should be also mandatory for multicast MRB configured with uplink RLC configuration, similar as DRB. Because unlike SRB, there is no default configuration for MRB.

[LG] We agree to the Rapporteur’s understanding. Our suggestion is “… mandatory present for a logical channel with uplink if it serves DRB or MRB.”

**Offline Conclusion:**

**?? Agree the CR as follows:**

The field is mandatory present for a logical channel with uplink if it serves DRB or multicast MRB. It is optionally present, Need R, for a logical channel with uplink if it serves an SRB. Otherwise it is absent.

1. [R2-2301780](file:///C:\Users\Dwx974486\Documents\3GPP\Extracts\R2-2301780%20Misc%20CR%20to%20TS%2038.331%20on%20NR%20MBS.docx) Misc CR to TS 38.331 on NR MBS ZTE, Sanechips CR Rel-17 38.331 17.3.0 3921 - F NR\_MBS-Core

Rapporteur’s understanding:

* For the 1st, 3rd, 4th, and 7th change, they are editorial changes, so we can agree to them.
* For the 2nd change, intention is to align with RAN1, so should be also OK.

For the 5th change, the intention is correct. When the NCL is absent, the UE cannot determine whether the ongoing sessions are provided in neighbor cell, so there is no use to signal *mtch-neighbourCell*; When the NCL is empty, it means no neighbor cells are providing the ongoing sessions, so there is also no use to signal *mtch-neighbourCell*.

* For the 6th change, the intention is OK. Because the cells in the NCL may also not providing the MBS sessions. But keeping only the highlighted change should be enough.

The IE *MBS-NeighbourCellList* indicates a list of neighbour cells in which ongoing MBS sessions provided via broadcast MRB in the current cell might be also provided based on the information provided in the per session *mtch-neighbourCell*.

**Offline Conclusion:**

**?? Agree the 6th change as follows:**

The IE *MBS-NeighbourCellList* indicates a list of neighbour cells where ongoing MBS sessions provided via broadcast MRB in the current cell might be also provided.

**?? Agree the other changes.**

1. [R2-2301202](file:///C:\Users\Dwx974486\Documents\3GPP\Extracts\R2-2301202%20Miscellaneous%20clarifications%20for%20MBS.docx) Miscellaneous clarifications for MBS Ericsson discussion Rel-17 NR\_MBS-Core

**Proposal 1**: In case the UE needs to support concurrent MBS sessions the UE needs to support multiple G-RNTIs.

**Proposal 2**: Add a NOTE in 38.331 to clarify:

* *mbs-ServiceList* and *mbs-FreqList* are not included in the same *MBSInterestIndication* message
* *mbs-ServiceList* applies to MBS broadcast service(s) provided on the serving frequency
* *mbs-ServiceList* includes the MBS broadcast service(s) the UE is able to receive simultaneously

**Proposal 3**: Clarify in 38.300 that in cell where the session is provided via PTM:

* the UE does not request a unicast bearer for that session
* the UE releases the unicast bearer that the UE requested for that session

Rapporteur’s understanding:

* For P1, there can be one-to-many mapping between G-RNTI and MBS sessions. Besides, it there are more G-RNTI scheduling than UE supports, gNB can reject the establishment the of MBS session and CN can switch to unicast session for the UE.
* For P2, *mbs-FreqList* is reported to assist NW to configure the frequency and *mbs-ServiceList* is reported to assist NW to schedule on the serving frequency. In this sense, they can be reported simultaneously. There seems no harm if the *mbs-ServiceList* contains services of other frequency. And it may not be needed to restrict the services to that can be received simultaneously.
* For P3, it may be useful to clarify that the UE requests the unicast after reselecting to the target cell in stage 2.

**Offline Conclusion:**

**?? TBD.**

# 4 Conclusion

*To Be Added*