3GPP TSG-RAN WG2 Meeting #119bis electronic R2-220xxxx

Online, 10th October – 19th October, 2022

Agenda Item: 6.1.2

Source: Huawei, HiSilicon

Title: [AT119bis-e][601][MBS-R17] RRC corrections

Document for: Discussion and Decision

# 1 Introduction

This document aims at summarizing the following offline discussion:

* [AT119bis-e][601][MBS-R17] RRC corrections (Huawei)

Scope: Treat [R2-2209653](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209653.zip) and documents in 6.1.2

Outcome: Report, 38.331 CR

Deadline: Report available: Tuesday 2022-10-18 1000 UTC, agreeable CR: EOM

The following deadlines are suggested:

* For initial inputs to questions listed in this document and comments on the 38.331 CR for MBS
  + Deadline: Thursday 2022-10-13 2359 UTC
* Summary of the offline and updated 38.331 CR for MBS
  + Deadline: Tuesday 2022-10-18 1000 UTC

NOTE: The editorial changes are not included in the document. They are merged in the RRC CR and comments can be given directly in the CR if any. The correction in [R2-2210682](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210682.zip) is related to the UP offline discussion [AT119bis-e][603][MBS-R17] and is not discussed in this document.

# 2 Contact information

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| **Company** | **Name** | **Email** |
| Ericsson | Martin van der Zee | martin.van.der.zee@ericsson.com |
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# 3 RRC corrections to be discussed

3.2 LCH re-association

This issue was discussed in the last meeting and the following agreements were made:

* We clarify NOTE1 as follows:

NOTE 1: For DRB and SRB, the network does not re-associate an already configured logical channel with another radio bearer. For MRB, the network does not re-associate an already configured logical channel with DRB or SRB.

* Discuss during CR review whether “Hence servedRadioBearer is not present in this case.” Needs to be removed in this case.
* Can consider further clarification on not allowing re-association to other MRBs during CR discussion if agreeable.

During the RRC CR review, there were different views on whether to allow an already configured MRB logical channel to be re-associated to a new MRB. So the highlighted issue was left.

In [R2-2209654](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209654.zip), two cases are identified:

**Case 1:** The original MRB is not changed but only the MRB ID is changed via *mrb-IdentityNew-r17* (i.e. an existing and the same PDCP entity is still used).

**Case 2:** A new MRB is established with a new *mrb-Identity-r17* and new configuration, e.g. *PDCP-Config-r17* (i.e. a new PDCP entity is established).

And it is proposed LCH re-association in case 1 is allowed, while in case 2 not, which is aligned with the principle for DRB/SRB. Otherwise in case 2, the stored data/segments in the old RLC entity may be accidently delivered to the new PDCP entity.

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| TDoc | Detailed RRC corrections |
| [R2-2209654](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209654.zip) | NOTE 1: For DRB and SRB, the network does not re-associate an already configured logical channel with another radio bearer. For MRB, the network does not re-associate an already configured logical channel with DRB or SRB or another MRB (i.e. another PDCP entity). Hence *servedRadioBearer* is not present in this case. |

**Q1: Do you agree that LCH re-association in case 2 is not allowed?**

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| **Company** | **Yes/No** | **Comments** |
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**Q2: If the answer to Q1 is yes, do you agree with this correction in** [**R2-2209654**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209654.zip)**?**

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In [R2-2209399](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209399.zip), it was proposed to clarify that the *MulticastRLC-BearerConfig* is not present when the network does not re-associate an already configured logical channel (serving an MRB) with DRB or SRB.

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| TDoc | Detailed RRC corrections |
| [R2-2209399](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209399.zip) | NOTE 1: For DRB and SRB, the network does not re-associate an already configured logical channel with another radio bearer. For MRB, the network does not re-associate an already configured logical channel with DRB or SRB. Hence both *servedRadioBearer* and *MulticastRLC-BearerConfig* are not present in these cases. |

**Q3: Do you agree with this correction in** [**R2-2209399**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209399.zip)**?**

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3.2 Miscellaneous corrections

In the [R2-2209653](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209653.zip), it is proposed to add a condition to clarify in which cases the IE *mtch-SSB-MappingWindowIndex-r17* can be absent. Specifically:

* The mtch-SSB-MappingWindowIndex-r17 shall be absent in case Searchspace0 is configured for searchSpaceMTCH-r17, i.e. the UE follows the beam mapping defined in RAN1 for Searchspace0.
* The mtch-SSB-MappingWindowIndex-r17 shall be absent in case the number of actual transmitted SSBs determined according to ssb-PositionsInBurst in SIB1 is 1, i.e. no beam sweeping is needed.

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| TDoc | Detailed RRC corrections |
| [R2-2209653](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209653.zip) | *MBS-SessionInfoList*  The IE *MBS-SessionInfoList* provides the list of ongoing MBS broadcast sessions transmitted via broadcast MRB and, for each MBS broadcast session, the associated G-RNTI and scheduling information.  ***MBS-SessionInfoList* information element**  -- ASN1START  -- TAG-MBS-SESSIONINFOLIST-START  MBS-SessionInfoList-r17 ::= SEQUENCE (SIZE (1..maxNrofMBS-Session-r17)) OF MBS-SessionInfo-r17  MBS-SessionInfo-r17 ::= SEQUENCE {  mbs-SessionId-r17 TMGI-r17,  g-RNTI-r17 RNTI-Value,  mrb-ListBroadcast-r17 MRB-ListBroadcast-r17,  mtch-SchedulingInfo-r17 DRX-ConfigPTM-Index-r17 OPTIONAL, -- Need S  mtch-NeighbourCell-r17 BIT STRING (SIZE(maxNeighCellMBS-r17)) OPTIONAL, -- Need S  pdsch-ConfigIndex-r17 PDSCH-ConfigIndex-r17 OPTIONAL, -- Need S  mtch-SSB-MappingWindowIndex-r17 MTCH-SSB-MappingWindowIndex-r17 OPTIONAL -- Cond MTCH-Mapping  }   |  |  | | --- | --- | | Conditional Presence | Explanation | | *MTCH-Mapping* | The field is absent in case *searchspaceMTCH* is set to zero or in case the number of actual transmitted SSBs determined according to *ssb-PositionsInBurst* in *SIB1* is 1, Need R, otherwise it is present. | |

**Q4: Do you agree with this correction in** [**R2-2209653**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209653.zip)**?**

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| **Company** | **Yes/No** | **Comments** |
| Ericsson | See comments | The condition “case *searchspaceMTCH* is set to zero” also includes the case when *searchspaceMTCH* is absent and *searchspaceMCCH* is set to zero? |
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According to the LS in [R2-2209201](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119-e/Docs//R2-2209201.zip), the NAS is not aware of broadcast MBS sessions. And CT1 does not see the need of more indications than the ones mentioned in the LS. So indications related to broadcast MBS sessions is not needed. Rapporteur proposes to make the following corrections in RRC CR:

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| TDoc | Detailed RRC corrections |
|  | 5.9.3.3 Broadcast MRB establishment Upon a broadcast MRB establishment, the UE shall:  1> establish a PDCP entity and an RLC entity in accordance with *MRB-InfoBroadcast* for this broadcast MRB included in the *MBSBroadcastConfiguration* message and the configuration specified in 9.1.1.7;  1> configure the MAC layer in accordance with the *mtch-SchedulingInfo* (if included);  1> configure the physical layer in accordance with the *mbs-SessionInfoList*, *searchSpaceMTCH,* and *pdsch-ConfigMTCH*, applicable for the broadcast MRB;  1> receive DL-SCH on the cell where the *MBSBroadcastConfiguration* message was received for the established broadcast MRB using *g-RNTI* and *mtch-SchedulingInfo* (if included) in this message for this MBS broadcast service;  1> if an SDAP entity with the received *mbs-SessionId* does not exist:  2> establish an SDAP entity as specified in TS 37.324 [24] clause 5.1.1. 5.9.3.4 Broadcast MRB release Upon broadcast MRB release for MBS broadcast service, the UE shall:  1> release the PDCP entity, RLC entity as well as the related MAC and physical layer configuration;  1> if the SDAP entity associated with the corresponding *tmgi* has no associated MRB:  2> release the SDAP entity, as specified in TS 37.324 [24] clause 5.1.2; |

**Q5: Do you agree with this correction?**

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| **Company** | **Yes/No** | **Comments** |
| Ericsson | No | Correct, CT1 did only see a need to be informed about establishment/release of user plane resources for Multicast.  But upper layers is not restricted to CT1/NAS, and SA2 indicated to see a need for both multicast and broadcast ([R2-2209353](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209353.zip)):   1. When the user plane resources are established for either an MBS broadcast or an MBS multicast session, the UE will notify upper layers about this (and include TMGI to identify the session). 2. When the user plane resources of either an MBS broadcast or an MBS multicast session are released, the UE will notify upper layers about this (and include TMGI to identify the session).   *For scenario 2 and 3, SA2 assumes that AS layer needs to indicate to the related upper layer per received TMGI, so that client applications may take proper actions towards users. SA2 hasn’t seen other events or information to be notified from AS layer towards upper layer.* |
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According to the LSs in [R2-2209190](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119-e/Docs//R2-2209190.zip) and [R2-2209201](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119-e/Docs//R2-2209201.zip), RRC\_INACTIVE UE does not need to forward the TMGI to NAS when the received group paging includes the interested TMGI. In [R2-2209547](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209547.zip), the following correction is proposed:

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| TDoc | Detailed RRC corrections |
| [R2-2209547](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209547.zip) | 5.3.2.3 Reception of the *Paging* *message* by the UE or *PagingRecord* by the L2 U2N Remote UE Upon receiving the *Paging* message by the UE or receiving *PagingRecord* from its connected L2 U2N Relay UE by a L2 U2N Remote UE, the UE shall:  1> if in RRC\_IDLE, for each of the *PagingRecord*, if any, included in the *Paging* message, or  1> if in RRC\_IDLE, for each of the *PagingRecord*, if any, included in the *UuMessageTransferSidelink* message received from the connected L2 U2N Relay UE:  2> if the *ue-Identity* included in the *PagingRecord* matches the UE identity allocated by upper layers:  3> if upper layers indicate the support of paging cause:  4> forward the *ue-Identity,* *accessType* (if present) and paging cause (if determined) to the upper layers;  3> else:  4> forward the *ue-Identity* and *accessType* (if present) to the upper layers;  1> if in RRC\_INACTIVE, for each of the *PagingRecord*, if any, included in the *Paging* message, or  1> if in RRC\_INACTIVE, for each of the *PagingRecord*, if any, included in the *UuMessageTransferSidelink* message received from the connected L2 U2N Relay UE:  2> if the *ue-Identity* included in the *PagingRecord* matches the UE's stored *fullI-RNTI*:  3> if the UE is configured by upper layers with Access Identity 1:  4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mps-PriorityAccess*;  3> else if the UE is configured by upper layers with Access Identity 2:  4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mcs-PriorityAccess*;  3> else if the UE is configured by upper layers with one or more Access Identities equal to 11-15:  4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *highPriorityAccess*;  3> else:  4> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set to *mt-Access*;  NOTE: A MUSIM UE may not initiate the RRC connection resumption procedure, e.g. when it decides not to respond to the *Paging* message due to UE implementation constraints as specified in TS 24.501 [23].  2> else if the *ue-Identity* included in the *PagingRecord* matches the UE identity allocated by upper layers:  3> if upper layers indicate the support of paging cause:  4> forward the *ue-Identity*, *accessType* (if present) and paging cause (if determined) to the upper layers;  3> else:  4> forward the *ue-Identity* and *accessType* (if present) to the upper layers;  3> perform the actions upon going to RRC\_IDLE as specified in 5.3.11 with release cause 'other';  1> If in RRC\_IDLE, for each *TMGI* included in *pagingGroupList*, if any, included in the *Paging* message:  2> if the UE has joined an MBS session indicated by the *TMGI* included in the *pagingGroupList*:  3> forward the *TMGI* to the upper layers;  1> if in RRC\_INACTIVE and the UE has joined one or more MBS session(s) indicated by the *TMGI* included in the *pagingGroupList*:  2> if none of the *ue-Identity* included in any of the *PagingRecord*, if included in the *Paging* message, matches the UE identity allocated by upper layers:  3> initiate the RRC connection resumption procedure according to 5.3.13 with *resumeCause* set as below:  4> if the UE is configured by upper layers with Access Identity 1:  5> *resumeCause* is set to *mps-PriorityAccess*;  4> else if the UE is configured by upper layers with Access Identity 2:  5> *resumeCause* is set to *mcs-PriorityAccess*;  4> else if the UE is configured by upper layers with one or more Access Identities equal to 11-15:  5> *resumeCause* is set to *highPriorityAccess*;  4> else:  5> *resumeCause* is set to *mt-Access*.  2> else:  3> forward the *TMGI* to the upper layers; |

**Q6: Do you agree with this correction in** [**R2-2209547**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209547.zip)**?**

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| **Company** | **Yes/No** | **Comments** |
| Ericsson | Yes | PS: the section did not become easier to read:  2> else:  3> forward the *TMGI* to the upper layers;  The use case for this “else” statement is:  If in RRC\_INACTIVE and the UE has joined one or more MBS session(s) indicated by the *TMGI* included in the *pagingGroupList* and *ue-Identity* included in the *PagingRecord* matches the UE identity allocated by upper layers.  Perhaps it is useful to clarify this with the else statement to avoid future puzzling but we are also fine to keep as is, i.e. the text is correct. |
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In [R2-2209547](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209547.zip), the following corrections are proposed (Correction 2 is also proposed in [R2-2209908](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209908.zip)):

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| Correction number | Detailed RRC corrections |
| Correction 1 | 5.3.5.6.1 General The UE shall perform the following actions based on a received *RadioBearerConfig* IE:  1> if the *RadioBearerConfig* includes the *srb3-ToRelease* or *srb4-ToRelease*:  2> perform the SRB release as specified in 5.3.5.6.2;  1> if the *RadioBearerConfig* includes the *srb-ToAddModList* or ifany DAPS beareris configured:  2> perform the SRB addition or reconfiguration as specified in 5.3.5.6.3;  1> if the *RadioBearerConfig* includes the *drb-ToReleaseList*:  2> perform DRB release as specified in 5.3.5.6.4;  1> if the *RadioBearerConfig* includes the *drb-ToAddModList*:  2> perform DRB addition or reconfiguration as specified in 5.3.5.6.5;  1> if the *RadioBearerConfig* includes the *mrb-ToReleaseList*:  2> perform multicast MRB release as specified in 5.3.5.6.6;  1> if the *RadioBearerConfig* includes the *mrb-ToAddModList*:  2> perform multicast MRB addition or reconfiguration as specified in 5.3.5.6.7;  1> release all SDAP entities, if any, that have no associated DRB as specified in TS 37.324 [24] clause 5.1.2, and indicate the release of the user plane resources for PDU Sessions associated with the released SDAP entities to upper layers;  1> release all SDAP entities established for the MBS multicast sessions that have no associated multicast MRB as specified in TS 37.324 [24] clause 5.1.2, and indicate the release of user plane resources for these MBS multicast sessions to upper layers |
| Correction 2 | 5.3.5.6.6 Multicast MRB release The UE shall:  1> for each *mrb-Identity* value included in the *mrb-ToReleaseList* that is part of the current UE configuration; or  1> for each *mrb-Identity* value that is to be released as the result of full configuration according to 5.3.5.11:  2> release the PDCP entity and the *mrb-Identity*;  NOTE 1: The UE does not consider the message as erroneous if the *mrb-ToReleaseList* includes any *mrb-Identity* value that is not part of the current UE configuration.  NOTE 2: Whether or not the RLC and MAC entities associated with this PDCP entity are reset or released is determined by the *CellGroupConfig*. |
| Correction 3 | 5.3.5.6.7 Multicast MRB addition/modification The UE shall for each element in the order of entry in the list *mrb-ToAddModList*:  1> if *mrb-Identity* value included in the *mrb-ToAddModList* is part of the UE configuration:  2> if *mrb-Identity* value included in the *mrb-ToAddModList* for which *mrb-IdentityNew* is included (multicast MRB ID change):  3> update the *mrb-Identity* to the value *mrb-IdentityNew*;  2> if the *reestablishPDCP* is set:  3> if *drb-ContinueROHC* is included in *pdcp-Config*:  4> indicate to lower layer that *drb-ContinueROHC* is configured;  3> if *drb-ContinueEHC-DL* is included in *pdcp-Config*:  4> indicate to lower layer that *drb-ContinueEHC-DL* is configured;  3> re-establish the PDCP entity of this multicast MRB as specified in TS 38.323 [5], clause 5.1.2;  2> else, if the *recoverPDCP* is set:  3> trigger the PDCP entity of this MRB to perform data recovery as specified in TS 38.323 [5];  2> if the *pdcp-Config* is included:  3> reconfigure the PDCP entity in accordance with the received *pdcp-Config*;  1> else if *mrb-Identity* value included in the *mrb-ToAddModList* that is not part of the UE configuration (multicast MRB establishment including the case when full configuration option is used):  2> establish a PDCP entity and configure it in accordance with the received *pdcp-Config*;  2> if at least one multicast MRB was configured with the same *mbs-SessionId*:  3> associate the established multicast MRB with the corresponding *mbs-SessionId*;  2> if an SDAP entity with the received *mbs-SessionId* does not exist:  3> establish an SDAP entity as specified in TS 37.324 [24] clause 5.1.1;  3> if an SDAP entity with the received *mbs-SessionId* did not exist prior to receiving this reconfiguration:  4> indicate the establishment of the user plane resources for the *mbs-SessionId* to upper layers.  NOTE 1: When setting the *reestablishPDCP* flag for a radio bearer, the network ensures that the RLC receiver entities do not deliver old PDCP PDUs to the re-established PDCP entity. It does that e.g. by triggering a reconfiguration with sync of the cell group hosting the old RLC entity or by releasing the old RLC entity.  NOTE 2: In this specification, UE configuration refers to the parameters configured by NR RRC unless otherwise stated.  NOTE 3: When updating the *mrb-Identity*, the network ensures new MRBs are listed at the end of the *mrb-ToAddModList* if they have the same MRB ID as in the existing UE configuration. |
| Correction 4 | 5.9.1.1 General UE receiving or interested to receive MBS broadcast service(s) applies MBS broadcast procedures described in this clause as well as the MBS Interest Indication procedure as specified in clause 5.9.4.  The most of MBS broadcast configuration information is provided on MCCH logical channel. MCCH carries the *MBSBroadcastConfiguration* message which indicates the MBS broadcast sessions that are provided in the cell as well as the corresponding scheduling related information for these sessions. Optionally, the *MBSBroadcastConfiguration* message may also contain a list of neighbour cells providing the same broadcast MBS service(s) as provided in the current cell. The configuration information required by the UE to receive MCCH is provided in *SIB20*. Additionally, System Information provides also an information related to service continuity of MBS broadcast in *SIB21*. |
| Correction 5 | |  | | --- | | ***dedicatedSystemInformationDelivery***  This field is used to transfer *SIB6*, *SIB7*, *SIB8, SIB19, SIB20, SIB21* to the UE with an active BWP with no common search space configured or the L2 U2N Remote UE in RRC\_CONNECTED. For UEs in RRC\_CONNECTED (including L2 U2N Remote UE), this field is used to transfer the SIBs requested on-demand. | |

**Q7: Please indicate which of the above 5 corrections in** [**R2-2209547**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209547.zip) **is/are not agreeable?**

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| **Company** | **Corrections not agreeable** | **Comments** |
| Ericsson | 4 | We think this correction is not needed/essential and the proposed wording is not clear. If companies think a clarification is needed, it is proposed to say:  MBS broadcast configuration information, except CFR configuration for MCCH/MTCH, is provided on MCCH logical channel. |
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In [R2-2210712](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210712.zip), MCCH acquisition outside the MBS service area is discussed. The following observations and proposal are made:

**Observation 1**: Based on the information in *SIB21* the UE may prioritize an MBS frequency where it will not find the service it is interested in.

**Observation 2**: The UE can use the cell/TAI list in the USD to avoid acquiring the MCCH when the cell is outside the MBS service area.

**Proposal:** Clarify in a NOTE in 38.331 that the UE may use the cell/TAI list in the USD to avoid acquiring the MCCH when the UE is outside the MBS service area.

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| TDoc | Detailed RRC corrections |
| [R2-2210712](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210712.zip) | 5.9.2.2 Initiation A UE shall apply the MCCH information acquisition procedure upon becoming interested to receive MBS broadcast services. A UE interested to receive MBS broadcast services shall apply the MCCH information acquisition procedure upon entering the cell providing *SIB20* (e.g. upon power on, following UE mobility), upon receiving *SIB20* of an SCell via dedicated signalling and upon receiving a notification that the MCCH information has changed due to the start of new MBS service(s). A UE that is receiving data via broadcast MRB shall apply the MCCH information acquisition procedure upon receiving a notification that the MCCH information has changed due to MCCH information modification other than the change caused by the start of new MBS service(s).  NOTE 1: It is up to UE implementation how to address a possibility of the UE missing an MCCH change notification.  NOTE 2: The UE may use the cell/TAI list in the USD to avoid acquiring the MCCH when the UE is outside the MBS service area  Unless explicitly stated otherwise in the procedural specification, the MCCH information acquisition procedure overwrites any stored MCCH information, i.e. delta configuration is not applicable for MCCH information and the UE discontinues using a field if it is absent in MCCH information. |

**Q8: Do you agree with this correction in** [**R2-2210712**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210712.zip)**?**

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| **Company** | **Yes/No** | **Comments** |
| Ericsson | Yes (proponent) | The point is that the *MBS service area*, indicated by cell/TAI list in USD, may not coincide with the *MBS frequency area* indicated by *SIB21*.  For example: the operator may provide all TV channels in both Stockholm and Gothenburg, except for TV4 (see [**R2-2210712**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210712.zip) for further explanation). |
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In [R2-2210713](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210713.zip), MBS broadcast neighbour cell configuration is discussed. The following proposals are made

**Proposal 1**: *mtch-NeighbourCell* is optionally present in case *mbs-NeighbourCellList* is present with size greater than zero.

**Proposal 2**: The IE *MBS-NeighbourCellList* indicates a list of neighbour cells where ongoing MBS sessions provided via broadcast MRB in the serving cell are also provided.

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| Correction number | Detailed RRC corrections |
| Correction 1 | – *MBS-SessionInfoList*  The IE *MBS-SessionInfoList* provides the list of ongoing MBS broadcast sessions transmitted via broadcast MRB and, for each MBS broadcast session, the associated G-RNTI and scheduling information.  ***MBS-SessionInfoList* information element**  -- ASN1START  -- TAG-MBS-SESSIONINFOLIST-START  MBS-SessionInfoList-r17 ::= SEQUENCE (SIZE (1..maxNrofMBS-Session-r17)) OF MBS-SessionInfo-r17  MBS-SessionInfo-r17 ::= SEQUENCE {  mbs-SessionId-r17 TMGI-r17,  g-RNTI-r17 RNTI-Value,  mrb-ListBroadcast-r17 MRB-ListBroadcast-r17,  mtch-SchedulingInfo-r17 DRX-ConfigPTM-Index-r17 OPTIONAL, -- Need S  mtch-NeighbourCell-r17 BIT STRING (SIZE(maxNeighCellMBS-r17)) OPTIONAL, -- Cond mbs-NCL  pdsch-ConfigIndex-r17 PDSCH-ConfigIndex-r17 OPTIONAL, -- Need S  mtch-SSB-MappingWindowIndex-r17 MTCH-SSB-MappingWindowIndex-r17 OPTIONAL -- Need R  }   |  |  | | --- | --- | | Conditional Presence | **Explanation** | | *mbs-NCL* | This field is optionally present in case *mbs-NeighbourCellList* is present with size greater than zero, Need S. Otherwise it is absent. | |
| Correction 2 | – *MBS-NeighbourCellList*  The IE *MBS-NeighbourCellList* indicates a list of neighbour cells where ongoing MBS sessions provided via broadcast MRB in the serving cell are also provided.  ***MBS-NeighbourCellList* information element**  -- ASN1START  -- TAG-MBS-NEIGHBOURCELLLIST-START  MBS-NeighbourCellList-r17 ::= SEQUENCE (SIZE (0..maxNeighCellMBS-r17)) OF MBS-NeighbourCell-r17  MBS-NeighbourCell-r17 ::= SEQUENCE {  physCellId-r17 PhysCellId,  carrierFreq-r17 ARFCN-ValueNR OPTIONAL -- Need S  }  -- TAG-MBS-NEIGHBOURCELLLIST-STOP  -- ASN1STOP |

**Q9: Please indicate which of the above 2 corrections in** [**R2-2210713**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210713.zip) **is/are not agreeable?**

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| **Company** | **Corrections not agreeable** | **Comments** |
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In [R2-2210717](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210717.zip), the following correction is proposed to avoid releasing the SDAP entity for broadcast MRB during full configuration:

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| TDoc | Detailed RRC corrections |
| [R2-2210717](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210717.zip) | 5.3.5.11 Full configuration The UE shall:  1> release/ clear all current dedicated radio configurations except for the following:  - the MCG C-RNTI;  - the AS security configurations associated with the master key;  - the SRB1/SRB2 configurations and DRB/multicast MRB configurations as configured by *radioBearerConfig* or *radioBearerConfig2*.  NOTE 1: Radio configuration is not just the resource configuration but includes other configurations like *MeasConfig*. Radio configuration also includes the RLC bearer configurations as configured by *RLC-BearerConfig*. In case NR-DC or NE-DC is configured, this also includes the entire NR or E-UTRA SCG configuration which are released according to the MR-DC release procedure as specified in 5.3.5.10.  NOTE 1a: For NR sidelink communication/discovery, the radio configuration includes the sidelink RRC configuration received from the network, but does not include the sidelink RRC reconfiguration and sidelink UE capability received from other UEs via PC5-RRC. In addition, the UE considers the new NR sidelink configurations as full configuration, in case of state transition and change of system information used for NR sidelink communication/discovery.  NOTE 1b: To establish the RLC bearer of SRB(s) after release due to *fullConfig*, the network can include the *srb-Identity* within *srb-ToAddModList* (i.e. the UE applies RLC default configuration) and/or provide *rlc-BearerToAddModList* of concerned SRB(s) explicitly.  - the logged measurement configuration;  1> if the *spCellConfig* in the *masterCellGroup* includes the *reconfigurationWithSync*:  2> release/ clear all current common radio configurations;  2> use the default values specified in 9.2.3 for timers T310, T311 and constants N310, N311;  1> else (full configuration after re-establishment or during RRC resume):  2> if the UE is acting as L2 U2N Remote UE:  3> use value for timer T311, as included in *ue-TimersAndConstants* received in *SIB1*  2> else:  3> use values for timers T301, T310, T311 and constants N310, N311, as included in *ue-TimersAndConstants* received in *SIB1*;  1> if no *measConfigAppLayerId* is included:  2> inform upper layers about the release of all application layer measurement configurations;  2> discard any received application layer measurement report from upper layers;  2> consider itself not to be configured to send application layer measurement report.  1> apply the default L1 parameter values as specified in corresponding physical layer specifications except for the following:  - parameters for which values are provided in *SIB1*;  1> apply the default MAC Cell Group configuration as specified in 9.2.2;  1> for each *srb-Identity* value included in the *srb-ToAddModList* (SRB reconfiguration):  2> establish an RLC entity for the corresponding SRB;  2> apply the default SRB configuration defined in 9.2.1 for the corresponding SRB;  NOTE 2: This is to get the SRBs (SRB1 and SRB2 for reconfiguration with sync and SRB2 for resume and reconfiguration after re-establishment) to a known state from which the reconfiguration message can do further configuration.  1> for each *pdu-Session* that is part of the current UE configuration:  2> release the SDAP entity (clause 5.1.2 in TS 37.324 [24]);  2> release each DRB associated to the *pdu-Session* as specified in 5.3.5.6.4;  NOTE 3: This will retain the *pdu-Session* but remove the DRBs including *drb-identity* of these bearers from the current UE configuration. Setup of the DRBs within the AS is described in clause 5.3.5.6.5 using the new configuration. The *pdu-Session* acts as the anchor for associating the released and re-setup DRB. In the AS the DRB re-setup is equivalent with a new DRB setup (including new PDCP and logical channel configurations).  1> for each *mbs-SessionId* that is part of the current UE configuration and associated to a multicast MRB:  2> release the SDAP entity (clause 5.1.2 in TS 37.324 [24]);  2> release each multicast MRB associated to the *mbs-SessionId* as specified in 5.3.5.6.6;  NOTE 4: This will retain the *mbs-SessionId* but remove the multicast MRBs including *mrb-identity* of these bearers from the current UE configuration. Setup of the multicast MRBs within the AS is described in clause 5.3.5.6.7 using the new configuration. The *mbs-SessionId* acts as the anchor for associating the released and re-setup multicast MRB. In the AS the multicast MRB re-setup is equivalent with a new multicast MRB setup (including new PDCP and logical channel configurations).  1> for each *pdu-Session* that is part of the current UE configuration but not added with same *pdu-Session* in the *drb-ToAddModList*:  2> if the procedure was triggered due to reconfiguration with sync:  3> indicate the release of the user plane resources for the *pdu-Session* to upper layers after successful reconfiguration with sync;  2> else:  3> indicate the release of the user plane resources for the *pdu-Session* to upper layers immediately;  1> for each *mbs-SessionId* that is part of the current UE configuration but not added with the same *mbs-SessionId* in the *mrb-ToAddModList*:  2> if the procedure was triggered due to reconfiguration with sync:  3> indicate the release of the user plane resources for the *mbs-SessionId* to upper layers after successful reconfiguration with sync;  2> else:  3> indicate the release of the user plane resources for the *mbs-SessionId* to upper layers immediately. |

**Q10: Do you agree with this correction in** [**R2-2210717**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210717.zip)**?**

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| **Company** | **Yes/No** | **Comments** |
| Ericsson | Yes |  |
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# 4 Conclusion

*[Easy Agreements]*

*[To be discussed]*

# 4 References

1. [R2-2209654](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209654.zip) Discussion on LCH re-association for MRB Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core
2. [R2-2209399](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209399.zip) RRC Corrections on MBS vivo CR Rel-17 38.331 17.2.0 3484 - F NR\_MBS-Core
3. [R2-2209547](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209547.zip) Miscellaneous Corrections to TS 38.331 for MBS CATT, CBN CR Rel-17 38.331 17.2.0 3494 - F NR\_MBS-Core Late
4. [R2-2209908](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2209908.zip) RRC corrections for MBS Intel Corporation discussion Rel-17 NR\_MBS-Core
5. [R2-2210050](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210050.zip) Broadcast MRB retention upon T300 expiry Samsung CR Rel-17 38.331 17.2.0 3521 - F NR\_MBS-Core
6. [R2-2210130](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210130.zip) Various small corrections to 38.331 Nokia, Nokia Shanghai Bell CR Rel-17 38.331 17.2.0 3524 - F NR\_MBS-Core
7. [R2-2210576](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210576.zip) 38.331 CR Correction on the ASN.1 violation or encoding error handling for MCCH message Beijing Xiaomi Software Tech draftCR Rel-17 38.331 17.2.0 F NR\_MBS-Core
8. [R2-2210682](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210682.zip) CR to TS 38.331 on MRB configuration ZTE, Sanechips CR Rel-17 38.331 17.2.0 3560 - F NR\_MBS-Core
9. [R2-2210712](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210712.zip) MBS service area and MCCH acquisition Ericsson discussion Rel-17 NR\_MBS-Core
10. [R2-2210713](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210713.zip) A closer look at the MBS broadcast neighbours Ericsson discussion Rel-17 NR\_MBS-Core
11. [R2-2210717](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_119bis-e/Docs//R2-2210717.zip) Correction to full configuration for MBS Google Inc. CR Rel-17 38.331 17.2.0 3562 - F NR\_MBS-Core