**3GPP TSG RAN WG1 #107bis-e R1-2200xxx**

**e-Meeting, January 17th – 25th, 2022**

**Title:** DRAFT LS reply to MBS broadcast reception on SCell and non-serving cell

**Response to:** R1-2112637/R2-2111625

**Release:** Rel-17

**Work Item:** NR\_MBS-Core

**Source:** Huawei (Moderator) (To be RAN1)

**To:** RAN2

**Cc:**

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**Attachments:**

1. **Overall Description:**

RAN1 thanks RAN2 for the LS on MBS broadcast reception on SCell and non-serving cell. RAN1 discussed UE receiving MBS broadcast on SCell in RRC\_CONNECTED state and on non-serving cell in RAN1#107bis-e meeting.

To respond to RAN2’s action of asking RAN1 to check the feasibility of MBS broadcast reception on SCell and non-serving cell, from RAN1 perspective, the following agreements are achieved:

***Agreement (pending)***

*From RAN1 perspective, it is feasible for UE in RRC\_CONNECTED state to receive MBS broadcast on SCell as long as UE has capability of supporting MBS broadcast on SCell. From RAN1 perspective, if a UE is to receive MBS broadcast on SCell,*

* *The capability of supporting MBS broadcast on SCell is separate capability from the one of CA for unicast.*
* *The UE is not required to monitor DCI formats associated with SI-RNTI, P-RNTI, RA-RNTI in SCell.*
* *Overbooking for SCell is not supported.*
* *MBS broadcast reception on SCell can be supported only for RRC\_CONNECTED UEs only with self-scheduling.*
* *Type0-PDCCH CSS set is only configured on the primary cell of the MCG.*
* *Configuring the search space on SCell for PDCCH monitoring of MBS DCI formats is via unicast RRC signaling.*

***Agreement (pending)***

*From RAN1 perspective, it is feasible for UE in RRC\_CONNECTED state to receive MBS broadcast on non-serving cell as long as UE has such capability, which is up to UE implementation and transparent to the network.*

* *It is assumed in RAN1 that UE receiving MBS broadcast on non-serving cell does not have any impact to operation on serving cell(s), e.g., does not require UE to obtain the related configuration from the serving cell, does not require the network to guarantee the scheduling doesn’t exceed UE’s capability on serving cell, etc.*
* *No RAN1 spec impact and no optimization is pursued in Rel-17 for MBS broadcast reception on non-serving cell.*

***Agreement (pending)***

*If supporting MBS broadcast reception on SCell and supporting MBS broadcast reception on non-serving cell are supported, support separate UE capabilities for UEs supporting MBS broadcast reception on SCell and for UEs supporting MBS broadcast reception on non-serving cell, respectively. The UE capabilities are expected to be defined by RAN2.*

RAN1 assumes whether to support MBS broadcast reception on SCell and supporting MBS broadcast reception on non-serving cell will be up to RAN2.

**2. Actions:**

**To RAN2**

**ACTION:** RAN1 respectfully requests RAN2 to take RAN1’s response into account.

**3. Date of Next TSG-RAN WG1 Meetings:**

TSG-RAN WG1 Meeting #108-e 21 February – 03 March 2022 E-Meeting

TSG-RAN WG1 Meeting #109-e 16 – 27 May 2022 E-Meeting