Companies please share their inputs on the excel spreadsheet in ‘/tsg\_ran/WG1\_RL1/TSGR1\_106-e/Inbox/drafts/8.12.3/RRC Parameters/’.

## Inputs on version-000

Please share your inputs, if any, in the following table

|  |  |
| --- | --- |
| **Company** | **Input** |
| Qualcomm | For locationAndBandwidth-Broadcast,The parameter is configured in a CFR for broadcast. It should be per CFR instead of per cell. For pdsch-ConfigCommon-Broadcast,We think it should be *pdsch-Config-Broadcast*, aligned with *pdsch-Config-Multicast* in a *CFR-Config-Multicast*. The parameters in *pdsch-Config-Broadcast* can be FFS. It is misleading to use *pdsch-ConfigCommon* with TDRA only for broadcast GC-PDSCH.The parameter is configured in a CFR for broadcast. It should be per CFR instead of per cell.For pcsch-ConfigCommon-Broadcast,We think it should be *pdcch-Config-Broadcast*, aligned with *pdcch-Config-Multicast* in a *CFR-Config-Multicast*. The parameters in *pdcch-Config-Broadcast* can be FFS. It is misleading to use *pdcch-ConfigCommon* with CORESET/SS of RA/paging/SIB1 for broadcast GC-PDCCH.The parameter is configured in a CFR for broadcast. It should be per CFR instead of per cell.For searchSpaceBroadcast,The parameter is configured in a CFR for broadcast. It should be per CFR instead of per cell.  |
| MediaTek | Regarding the parameters cfr-Config-MCCH and cfr-Config-MTCH in *Post\_RAN1#106-e\_Rel-17\_RRC\_MBS\_Broadcast.xlsx* file, We don’t support the two separate parameters for MCCH and MTCH. From our understanding, if there are two separate CFR parameter for MCCH and MTCH, it is nature to support two CFRs for broadcast reception. However, whether support different CFR for MCCH and MTCH is still FFS, at least, at current stage, the same CFR is for MCCH/MTCH broadcast reception was agreed as the following agreement reached in RAN1#106-e meeting:

|  |
| --- |
| Agreement:For broadcast reception, RRC\_IDLE/RRC\_INACTIVE UEs can use the same bandwidth configurations for the CFR of GC-PDCCH/PDSCH carrying MCCH and the CFR of GC-PDCCH/PDSCH carrying MTCH.* FFS: use of different bandwidth configurations for the CFR of GC-PDCCH/PDSCH carrying MCCH and the CFR of GC-PDCCH/PDSCH carrying MTCH
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We suggest a common frequency parameter “cfr-Config-broadcast” instead of separate “cfr-Config-MCCH” and “cfr-Config-MTCH” is used for MCCH and MTCH configuration.For remaining parameter listed in excel file, we agreed with QC’s view that these parameters should be defined/configured per CFR instead of per cell. |
| Apple | We share the similar view as MedidaTek on parameter of CFR-Config-MCCH or CFR-Config-MTCH. According to the agreements reached by now, the parameter cfr-Config-Boradcast seems more aligned with the agreements. We don’t see the reasons to define two CFRs for MCCH and MTCH, it’s contradictory with RAN1#104 agreement that one CFR can be defined/configured. And with RAN1#106 agreement, same bandwidth configurations for CFR for MCCH and MTCH also means one CFR is enough.RAN1#104 Agreement:For RRC\_IDLE/RRC\_INACTIVE UEs, one common frequency resource for group-common PDCCH/PDSCH can be defined/configured.* FFS: whether to define/configure more than one common frequency resources

RAN1#106 AgreementOnly one CFR can be configured for group-common PDCCH/PDSCH carrying MCCH for broadcast reception with UEs in RRC\_IDLE/INACTIVE state.RAN1#106 Agreement:For broadcast reception, RRC\_IDLE/RRC\_INACTIVE UEs can use the same bandwidth configurations for the CFR of GC-PDCCH/PDSCH carrying MCCH and the CFR of GC-PDCCH/PDSCH carrying MTCH.* FFS: use of different bandwidth configurations for the CFR of GC-PDCCH/PDSCH carrying MCCH and the CFR of GC-PDCCH/PDSCH carrying MTCH
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| ZTE | 1st comment:It seems we need to add one parameter to configure G-RNTI for UE for broadcast. It probably will be a list if UE can be configured with multiple G-RNTIs.2nd comment:It seems we also need to add a CORESET configuration for broadcast. Per previous agreements, a dedicated CORESET can be configured for MBS. |
| FL’s response | @QC, Likewise to pucch-Config-ACK/NACK-Multicast which is separate from pucch-Config for unicast, pdsch-ConfigCommon-Broadcast/ pdcch-ConfigCommon-Broadcast is separate from *pdsch-ConfigCommon/ pdcch-ConfigCommon,* so TDRA and CORESET/SS can be separately configured to broadcast GC-PDSCH/GC-PDCCH from that for RA/paging/SIB1. The only difference of using pdsch-ConfigCommon-Broadcast and *pdsch-Config-Broadcast* is for the former adding more parameters and for the latter reducing some unnecessary parameters. It is just naming difference at this moment. I would prefer to keep it as is and revisit later when necessary. @QC, MediaTek Regarding the parameters are per CFR or per Cell. We only have agreed only one CFR for MCCH and open for MTCH. If more than one CFR is supported, the per cell is going to be per CFR. One note is added accordingly. *Agreement:**Only one CFR can be configured for group-common PDCCH/PDSCH carrying MCCH for broadcast reception with UEs in RRC\_IDLE/INACTIVE state.*@MediaTek, AppleRegarding the cfr-Config-MCCH and cfr-Config-MCCH, now I merged the two into a single cfr-Config-MCCH-MTCH with a note added saying this parameter can be split if MCCH and MTCH can be configured within different CFRs.@ZTE,One row for G-RNTI is added as suggested. Regarding the comment of adding a CORESET configuration for broadcast, not sure if you are referring to the following agreement. If it is, the CORESET configured for broadcast will point to one existing parameter, so it is present in this RRC list. *Agreement:**For Rel-17, for broadcast reception, RRC\_IDLE/RRC\_INACTIVE UEs do not exceed the maximum number of CORESETs mandatorily (in the minimum capability) supported for Rel-15/Rel-16 UEs, i.e., 2 CORESETs.* * *If the CFR has the same frequency range as the initial BWP, where the initial BWP has the same frequency resources as CORESET0 or where the initial BWP has the frequency resources configured by SIB1, RRC\_IDLE/RRC\_INACTIVE UEs can be configured with the following options:*
	+ *CORESET#0 (default option if CFR is the initial BWP and CORESET is not configured); or*
	+ *CORESET configured by commonControlResourceSet; or*
	+ *CORESET#0 and CORESET configured by commonControlResourceSet.*
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## Inputs on version-001

Please share your inputs, if any, in the following table

|  |  |
| --- | --- |
| **Company** | **Input** |
| **Qualcomm** | Concept-wise, we think the parameters **configured in a CFR** should be marked as per CFR, aligned with RAN1 agreement. Whether we have only one or multiple CFRs is a separate issue, which will be discussed further. For multicast, the parameters in a CFR is marked as per CFR instead of per BWP, although we agree to have max one CFR per BWP. Therefore, the following parameters for broadcast CFR should be ‘per CFR’ instead of ‘per cell’:* + - locationAndBandwidth-Broadcast
		- pdsch-Config~~Common~~-Broadcast
		- pdcch-Config~~Common~~-Broadcast
			* searchSpaceBroadcast

Regarding the name of pdsch-Config-Broadcast or pdcch-Config-Broadcast, we don’t think the parameters in pdsch-ConfigCommon (TDRA only) and pdcch-ConfigCommon (dedicated CORESET/SS for RA/paging/SIB1) should be taken as a baseline for broadcast CFR. For broadcast CFR, the starting PRB is using the same approach as that of multicast CFR, according to the RAN1 agreement below. Similarly, we can take the pdsch-Config and pdcch-Config as baseline for broadcast.Agreement:From RAN1 perspective, the CFR for broadcast reception of RRC\_IDLE/INACTIVE UEs, includes at least the following configurations:• One set of parameters configured for PDSCH for broadcast reception with GC-PDSCH• One set of parameters configured for PDCCH for broadcast reception with GC-PDCCH• FFS: whether some parameters configured for PDSCH/PDCCH are optional/needed for the supported cases of CFR.• FFS: If necessary, depending on the cases supported, starting PRB and the number of PRBs o The reference for starting PRB is Point A. (Following the same approach to determine reference for starting PRB as that defined in AI8.12.1.) Regarding the newly added ‘G-RNTI’, it is not UE-specific for broadcast. The RNTI for MCCH will be broadcasted in SIB and the RNTI(s) for MTCH can be configured in MCCH. But the details of the configuration can be up to RAN2.  |
| **ZTE** | Thanks for the FL’s response.My previous comment was referring to the following comment. As the yellow highlighted part shown below, a CORESET can be configured within the CFR for group-common PDCCH/PDSCH. Our understanding is that, the following agreements are applicable to both the cases 1) when CFR is not the same as the initial BWP and 2) when CFR is the same as the initial BWP. Is this the common understanding among companies?*Agreements: For RRC\_IDLE/RRC\_INACTIVE UEs, a CORESET can be configured within the common frequency resource for group-common PDCCH/PDSCH. CORESET0 is used by default if the common frequency resource for group-common PDCCH/PDSCH is the initial BWP and the CORESET is not configured.** *FFS: configuration details of the CORESET for group-common PDCCH/PDSCH*
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