Companies please share their inputs on the excel spreadsheet in ‘/tsg\_ran/WG1\_RL1/TSGR1\_106-e/Inbox/drafts/8.12.1/RRC Parameters/’.

## Inputs on version-000

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

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| --- | --- |
| **Company** | **Input** |
| Qualcomm | For G-RNTI/G-CS-RNTI:  We agree that the configuration is via unicast RRC signaling. But we are not sure it is common or different for BWPs, for cells or cell groups. We haven’t discussed whether G-RNTI/G-CS-RNTI is configured per BWP, per serving cell or per cell-group.  Note that C-RNTI is assigned/modified during establishment/modification of RRC connection, but MCS-C-RNTI and CS-RNTI are configured per cell-group, i.e., in *PhysicalCellGroupConfig*, by unicast RRC signaling*.*  For locationAndBandwidth-Multicast,  The default value should be FFS instead of N/A? As discussed in previous RAN1 meetings, majority companies think it may be equal to that of associated dedicated BWP, if not configured. |
| Apple | One additional RRC parameter is missed, i.e., sps-config-Multicast.  The related agreements are showing below.  Agreement:  From RAN1 perspective, the CFR (common frequency resource) for multicast of RRC-CONNECTED UEs, which is confined within the frequency resource of a dedicated unicast BWP and using the same numerology (SCS and CP), includes the following configurations:  • Starting PRB and the number of PRBs  • One PDSCH-config for MBS (i.e., separate from the PDSCH-Config of the dedicated unicast BWP)  • One PDCCH-config for MBS (i.e., separate from the PDCCH-Config of the dedicated unicast BWP)  • SPS-config(s) for MBS (i.e., separate from the SPS-Config of the dedicated unicast BWP) |
| MediaTek | Regarding G-RNTI/G-CS-RNTI, it is common for all UEs in one MBS group, and RAN2 also achieved some following agreements in RAN2#114-e meeting.   * One-to-one mapping between G-RNTI and MBS session is supported in NR MBS. Other mappings FFS * One-to-one mapping between G-CS-RNTI and MBS session is supported in NR MBS. Other mappings FFS.   Thus, if we say the G-RNTI/G-CS-RNTI configuration is per UE, it is not accurate and may make RAN2 confused. We suggest modify the wording as “per service” instead of “per UE”.  Regarding the missed parameter as Apple mentioned, we have the following comments:  The following RRC parameters are missed: *pdcch-DMRS-ScramblingID-multicast, dataScramblingIdentityPDSCH-multicast, pdcch-DMRS-ScramblingID-multicast.* Based on thefollowing agreements, it is clear that these parameters can be separate configured in its own CFR.  Agreement:  For initializing scrambling sequence generator for GC-PDCCH with the second DCI format, equals the higher layer parameter *pdcch-DMRS-ScramblingID* if it is configured in the CORESET in a CFR used for the GC-PDCCH;, otherwise.   * FFS: Values for . Choices include one or more of the following:   + Alt1: G-RNTI used for the GC-PDCCH.   + Alt2: 0   + Alt3: Other fixed values   Agreement:  For initializing scrambling sequence generator for GC-PDSCH scheduled by the second DCI format for multicast received in Type-x CSS,   * equals the higher layer parameter *dataScramblingIdentityPDSCH* if it is configured in *PDSCH-Config* in a CFR used for GC-PDSCH and the RNTI equals the G-RNTI or G-CS-RNTI; otherwise. * corresponds to the RNTI associated with the GC-PDSCH transmission (i.e., the G-RNTI used by the scheduling GC-PDCCH, or the G-CS-RNTI used by the SPS GC-PDSCH activation PDCCH)   Agreement:  For initializing sequence generator for DMRS of GC-PDCCH with the second DCI format received in Type-x CSS,   * equals the higher layer parameter *pdcch-DMRS-ScramblingID* if it is configured in the CORESET in a CFR used for the GC-PDCCH; otherwise. |
| ZTE | 1st comment:  Agree with other companies that we should first discuss whether G-RNTI is per-CFR, per-BWP, per-Cell, per UE or anything else. Besides, G-RNTI and G-CS-RNTI should be a list since UE may need to receive multiple services.  2nd comment:  Search space also needs to be a list since UE can be configured with multiple search space sets for MBS (probably for different MBS services).  3rd comment:  It seems we may also need to add CORESET configuration with CFR.  controlResourceSetToAddModList      SEQUENCE(SIZE (1..3)) OF ControlResourceSet                      OPTIONAL,   -- Need N |
| FL’s response | @Qualcomm @ MediaTek @ZTE  The configuration of *G-RNTI/G-CS-RNTI* and the default value of *locationAndBandwidth-Multicast* are revised to FFS, which can be discussed in the future.  In addition, regarding the other comments from Apple/MediaTek/ZTE, as a general discussion point, whether the current parameters in PDCCH-Config/PDSCH-Config for unicast can be reused for PDCCH-Config-Mutlicast/PDSCH-Config-Mutlicast, or we have to introduce new parameters for them with suffix “-Multicast” added (e.g., *searchSpacesToAddModList-Multicast, controlResourceSetToAddModList-Multicast, pdcch-DMRS-ScramblingID-Multicast dataScramblingIdentityPDSCH-Multicast,* …) in PDCCH-Config-Mutlicast/PDSCH-Config-Mutlicast. More companies’ views are invited.  @Apple  The intention of *sps-ConfigToAddModList-Multicast* was to cover the agreement cited by you. Although I understand that both *sps-Config* and *sps-ConfigToAddModList-r16* are included in *BWP-DownlinkDedicated* in current spec, I think for multicast only *sps-ConfigToAddModList-Multicast* may be enough to be included in *CFR-Config-Multicast* since it can cover all the cases including one and more than one SPS configurations for multicast, that is the reason why I only include *sps-ConfigToAddModList-Multicast* in *CFR-Config-Multicast*. However, regarding whether the current *sps-Config* for unicast can be reused for each element to be included in *sps-ConfigToAddModList-Multicast* or a new *sps-Config-Multicast* should be introduced, my current understanding is that the current *sps-Config* for unicast can be reused for each element to be included in *sps-ConfigToAddModList-Multicast*, but more companies’ views are invited regarding this. If companies prefer to introduce a new *sps-Config-Multicast* for each element to be included in *sps-ConfigToAddModList-Multicast* in *CFR-Config-Multicast*, I can add it later. Currently I added an FFS whether the current *SPS-Config* for unicast can be reused or a new *SPS-Config-Multicast* should be introduced for each element to be included in *sps-ConfigToAddModList-Multicast*.  @ MediaTek  The existing *pdcch-DMRS-ScramblingID* is configured in *controlResourceSet.* In my understanding, if a *controlResourceSet* is configured in *PDCCH-Config-Multicast* in *CFR-Config-Multicast*, then UE can identifythat the *pdcch-DMRS-ScramblingID* in the *controlResourceSet* is used for multicast. I’m not sure whether a new *pdcch-DMRS-ScramblingID-Multicast* should be configured on top of *pdcch-DMRS-ScramblingID* or not*.*  Similarly, the existing *dataScramblingIdentityPDSCH* is configured in *pdsch-Config*. In *pdsch-Config-Multicast* is configuredin *CFR-Config-Multicast*, the *dataScramblingIdentityPDSCH* in *pdsch-Config-Multicast* is used for multicast.  Regarding these two issues, more companies’ views are invited. If most companies suggest to introduce *pdcch-DMRS-ScramblingID-multicast* and *dataScramblingIdentityPDSCH-multicast*, I can add them later*.* In the description of *pdcch-Config-Multicast* and *pdsch-Config-Multicast*, we also mentioned that it is FFS whether all the parameters of the existing *pdcch-Config/pdsch-Config* are needed or not for *pdcch-Config-Multicast/pdsch-Config-Multicast*.  @ZTE  Regardingwhether *searchSpacesToAddModList* and *controlResourceSetToAddModList* in *pdcch-Config* can be reused for *pdcch-Config-Multicast*, more views are invited*.* |

## Inputs on version-001

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

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