Companies are to share their inputs on the excel spreadsheet in [/tsg\_ran/WG1\_RL1/TSGR1\_106-e/Inbox/drafts/8.1.2.1/PUCCH&PUSCH/RRC/](https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106-e/Inbox/drafts/8.1.2.1/PUCCH%20%26%20PUSCH/RRC) herein.

## Inputs on initial version

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

Table 1 Inputs: Initial version

|  |  |
| --- | --- |
| **Company** | **Input** |
| Apple | * **MappingPattern: It seems we have not agreed this is configured by RRC**
* **FFS: PUCCH-SpatialRelationInfo (without referenceSignal) or PUCCH-PowerControlSetInfo (new IE): I am not sure whether we have agreed that “from RAN1 point of view, one possible example is to reuse PUCCH-SpatialRelationInfo except for the referenceSignal”. In our view, it can be as follows:**
	+ **PUCCH-PowerControlSetInfo; whether to reuse legacy structure or create new structure is up to RAN2; candidate value: similar to PUCCH-spatialRelationInfo without referenceSignal**
* **SecondTPCFieldDCI-x-y: In our view, one RRC parameter per UL channel seems to be enough.**
 |
| Samsung | For ‘MappingPattern’, we think new RRC is needed because there are the agreements as follows:**Agreement** **Confirm the following Working Assumption** (with small correction of typo and clarification on UE capability in RED):* For beam mapping /power control parameter set mapping for PUCCH repetitions,
	+ For M-TRP PUCCH Scheme 1 in FR1, it is possible to configure either cyclic mapping or sequential mapping of power control parameter sets over PUCCH repetitions (similar to spatial relation info’s over PUCCH repetitions).
	+ For M-TRP PUCCH Scheme 3, reuse the same methods as Scheme 1 (by replacing slots with sub-slots) for beam mapping or power control ~~resource~~ parameter set mapping ~~to sub-slots~~.
	+ The support of cyclic mapping can be optional UE feature for the cases when the number of repetitions is larger than 2.

**Agreement****Confirm the following working assumption** (with removing the last bullet):For single DCI based M-TRP PUSCH repetition Type A and B, it is possible to configure either cyclic mapping or sequential mapping of UL beams.* The support of cyclic mapping can be optional UE feature for the cases when the number of repetitions is larger than 2.
* FFS: Support of half-half mapping.
* FFS: Additional considerations on mapping patterns (including required beam switching gaps)

In this agreement, either cyclic mapping or sequential mapping of UL beams should be configured and new RRC is required for this. Therefore, ‘MappingPattern’ for PUCCH/PUSCH is required as FL’s suggestion. |
| Ericsson | One general comment regarding description of the RRC parameters. In several rows, the current version uses the term ‘per-TRP’. Since we do not define the term TRP in RAN1 specs for MIMO features (which is also true for NR Rel-16 multi-TRP features), we suggest not to use the term ‘per TRP’ in the description. Otherwise, RAN2 may use ‘per-TRP’ in the field descriptions of 38.331. Perhaps, what we can do is the following:-> for RRC parameters related to PUSCH transmission, we can use the term ‘per SRS resource set’.-> for RRC parameters related to PUCCH transmissions, we can use either ‘per spatial relation’ or ‘per power control parameter set.We are also open to using other terminology instead of ‘per-TRP’ |
| Futurewei | Agree with Ericsson’s comment. The term mTRP may also be avoided in the Description fields. Question: are the parameters only for intra-cell mTRP? If yes, maybe we can leaverage CORESET pool indexes.Also for the 2nd TRP’s configuration parameters, the design in the spreadsheet seems to imply that each parameter is added side-by-side with existing parameters in the existing IEs. Though RAN2 is likely to adopt this, RAN2 may alternatively create new IEs (e.g., PUSCH-Powercontrol2) with the 2nd TRP’s parameters in them. We think it is better to leave the options for them. |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## Inputs on version 01

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

....