Title: Discussion summary on SRS RRC parameters

# Initial version

An initial list of RRC parameters has been uploaded to the draft folder in the following link.

<https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_106-e/Inbox/drafts/8.1.3/RRC%20parameters>

Please review this list and provide your comments, if any, in the following comment box. Please keep in mind that we don't need to be too picky about the specific design of RRC parameters now. The intention of this email discussion is to check from functionality perspective, whether anything is missing or incorrect based on what we have agreed.

Comment on the initial version of SRS RRC parameters

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| Companies | Views |
| Futurewei | The parameter TriggerSRSOnly (a new RRC flag) may not be absolutely needed. For example, if the AvailableSlotOffset (and possibly other parameters) is configured for a DCI format, the gNB and UE may assume that the DCI format can be used to trigger the new AP SRS.Some parameters are related to some open proposals, e.g., PF values other than 2 or 4. It would be nice to clarify such as [other values TBD] or wait for the next meeting to finalize. |
| *FL* | On TriggerSRSOnly:Based on the agreements we have so far, to make this feature work, a RRC parameter is needed. Further, the two features (determining slot offset based on available slot and triggering SRS only) are not related in previous agreements. If future discussion allows to use other RRC parameters to configure the enabling of this feature, we can merge this RRC parameter with others then. Hence one FFS point is added to further study the possibility to merge this parameter with another one as you request. On PF value:One note is added to remind that whether other values are introduced are still open. |
| CATT | We have comments on the following RRC parameters regarding SRS configuration .* For Parameter *IncreaseRepetitionPattern*: The parameter *IncreaseRepetitionPattern* only contains the number of SRS symbols and the repetition factor. It cannot define the staring position of SRS transmission in a slot. It is not suitable to introduce *IncreaseRepetitionPattern*. In current specification, field *startPosition*, *repetitionFactor* and *nrofSymbols* have been contained in *resourceMapping* and configured as

resourceMapping SEQUENCE { startPosition INTEGER (0..5), nrofSymbols ENUMERATED {n1, n2, n4}, repetitionFactor ENUMERATED {n1, n2, n4} },resourceMapping-r16 SEQUENCE { startPosition-r16 INTEGER (0..13), nrofSymbols-r16 ENUMERATED {n1, n2, n4}, repetitionFactor-r16 ENUMERATED {n1, n2, n4}In Rel-17 SRS coverage and capacity enhancement, $N\_{symb}^{SRS}\in \left\{8,10,12,14\right\}$ SRS symbols and the repetition factor *R* $\in \left\{3,5,6,7,8,10,12,14\right\}$ have been supported other than $N\_{symb}^{SRS}\in \left\{1,2,4\right\}$ SRS and *R* to {$1,2,4$}. Hence, it simply and directly introduce a new resource mapping parameter, such as, resourceMapping-r17 SEQUENCE { startPosition-r16 INTEGER (0..13), nrofSymbols-r16 ENUMERATED {n1, n2, n4, n8, n10, n12, n14}, repetitionFactor-r16 ENUMERATED {n1, n2, n3, n4, n5, n6, n7, n8, n10, n12, n14}* For parameter *EnableStartRBHopping*: We have agreed that when this start RB location hopping is disabled, the start RB location is fixed to be 0 for all SRS symbols. For the parameter, a note should be given to clarify the start RB location when start RB location hopping is disabled.
* For parameter *transmissionComb*: Comb-8 is supported to enhance SRS in Rel-17. The exiting parameter *transmissionComb-r16* is used to SRS positioning, which cannot be used to configure for MIMO SRS. Therefore, it should be a new parameter.
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