**3GPP TSG RAN WG1#100bis-e R1-**

**e-Meeting, April 20th – 30th, 2020**

**Title: [DRAFT]** LS on aligning RRC parameter list with TS38.213

**Release:** 16

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

**Source:** Lenovo

**To:** RAN WG2

**Cc:**

**Contact Person:**

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**Attachments:** None.

**1. Overall Description:**

For search space set switching in developed in Rel-16 NR-U WI, the following RRC parameters are defined:

* *searchSpaceSwitchTrigger-r16*
* *searchSpaceSwitchingGroup-r16*
* *searchSpaceSwitchingTimer-r16*
* *searchSpaceGroupIdList-r16*

A search space switching trigger in DCI 2\_0 allows the gNB to explicitly signal switching of search space monitoring between two groups of search space sets for one or more groups of serving cells. The parameter *SearchSpaceSwitchTrigger-r16* in the *SlotFormatIndicator* IE configures the position in DCI 2\_0 of the trigger bit (*positionInDCI* parameter). It should also indicate to which serving cell the trigger applies. In addition, serving cells can be grouped together so that the trigger applies to all cells in the group. Each serving cell group is configured with the higher layer parameter *searchSpaceSwitchingGroup-r16* containing up to 16 serving cells*.*

Furthermore, the parameter *searchSpaceGroupIdList-r16* configured within the *SearchSpace* IE assigns one or two group indices, with possible values 0 or 1, to each search space set. This parameter indicates which search space set should be monitored according to the switching procedure in [clause 10.4. in 38.213]. The *searchSpaceGroupIdList-r16* configuration is only relevant within the *SearchSpace* IE.

In the current version of 38.331, there is a CHOICE to configure either *servingCellId* or *groupId* within the *searchSpaceSwitchTrigger-r16* parameter in SlotFormatIndicator information element. From RAN1's perspective, according to the mechanism outlined above, such a choice serves no purpose, and it is sufficient to include just *servingCellId*.

Based on above discussion we ask RAN2 to modify the *SearchSpaceSwitchTrigger-r16* parameter within the *SlotFormatIndicator* information element as follows:

 searchSpaceSwitchTrigger-r16 SEQUENCE {

 positionInDCI INTEGER(0..maxSFI-DCI-PayloadSize-1),

 ~~id CHOICE {~~

 servingCellId ServCellIndex~~,~~

 ~~groupId INTEGER (0..1)~~

 ~~}~~

 ~~}~~ OPTIONAL, -- Need N

**2. Actions:**

**To RAN2 group.**

**ACTION:** RAN1 respectfully asks RAN2 to modify the *SearchSpaceSwitchTrigger-r16* parameter within the *SlotFormatIndicator* information element as indicated above.

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

TSG-RAN WG1 Meeting #101 25th – 29th May 2020 e-Meeting

TSG-RAN WG1 Meeting #102 24th – 28th October 2020 Toulouse, France