[100b-e-NR-5G\_V2X\_NRSL-PHYstructure-03]

Email discussion/approval regarding signaling of resource pool

[100b-e-NR-5G\_V2X\_NRSL-PHYstructure-03] Email discussion/approval regarding signaling of resource pool
   - A. Periodicity of resource pool bitmap, length of the bitmap, excluded slots, reserved slots

till 4/24, with potential TP till 4/29 – Jeongho (SS)

This document has the following questions.

A. What is the periodicity of resource pool bitmap?

B. What is the length of the bitmap for resource pool configuration?

C. How to obtain the excluded slots?

D. Is the reserved slot needed?

# **A. What is the periodicity of resource pool bitmap?**

Based on the submitted contributions, there are the following alternatives and supporting companies.

* Alt A-1. 10240 ms, i.e., 10240×2^μ slots
	+ [Huawei, HiSilicon], [ZTE, Sanechips], [vivo], [OPPO], [LGE], [TCL], [CATT], [Apple], [Panasonic], [Sharp], [Qualcomm]
* Alt A-2. 20 ms
	+ [CMCC]
* Alt A-3. Depending on TDD UL/DL patterns
	+ [Spreadtrum], [NEC]
* Alt A-4. 10240 slots
	+ [NEC]

Based on the contributions, the following proposal can be made.

*Proposal 1. For the periodicity of resource pool bitmap, 10240 ms is used.*

Please share your views if Proposal 1 is agreeable or, if not, please share your views on the reason why it is not workable.

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# **B. What is the length of the bitmap for resource pool configuration?**

Based on the submitted contributions, there are the following alternatives and supporting companies.

* Alt B-1. 8, 16, 32, 64
	+ [ZTE, Sanechips]
* Alt B-2. 16, 32, 64, 128, 256, 512
	+ [vivo]
* Alt B-3. 10, 16, 20, 30, 40 ,50, 60, 100
	+ [OPPO]
* Alt B-4. [1], 2, 3, 4,…, 160
	+ [LGE]
* Alt B-5. Different value depending on SCS
	+ [TCL], [CATT], [Apple]
* Alt B-6. 20 ms
	+ [CMCC]
* Alt B-7. Different value depending on TDD UL/DL patterns
	+ [Spreadtrum], [Panasonic](also for 160 ms), [Sharp]

The values proposed are quite diverging. Please share your views on this issue and the reason of your views on why some specific values are needed.

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# **C. How to obtain the excluded slots?**

Based on the submitted contributions, there are the following alternatives and supporting companies.

For “slots not having at least Y-th, (Y+1)-th, ....., (Y+X-1)-th symbols in a slot semi-statically for UL as indicated in TDD-UL-DL-ConfigCommon ”,

* Alt C-1. Replace TDD-UL-DL-ConfigCommon by SL-TDD-Config in PSBCH
	+ [vivo]
* Alt C-2. Confirm WA
	+ [OPPO], [Nokia, NSB], [Panasonic]
* Alt C-3. Use TDD-UL-DL-ConfigCommon or PSBCH
	+ [CMCC]
* Alt C-4. Use different configurations according to in-coverage or out-of-coverage
	+ [LGE]

Please share your views on this issue and the reason of your views with necessity of each alternative.

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# **D. Is the reserved slot needed?**

Based on the submitted contributions, there are the following alternatives and supporting companies.

* Alt A-1. No need to define.
	+ [ZTE, Sanechips], [vivo]
* Alt A-2. Use reserved slot similarly as defined LTE-V2X procedure.

Please share your views on this issue and the reason of your views with necessity of each alternative.

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