[100b-e-NR-5G\_V2X\_NRSL-PHYstructure-04]

Email discussion/approval regarding SCI related

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   - A. Indication of MCS tables (if necessary) and MCS table determination

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

This document has the following question.

* A. How to indicate MCS table to be used for PSSCH?

# **A. How to indicate MCS table to be used for PSSCH?**

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

* Alt A-1. Indication by 1st SCI, if more than one MCS tables are configured
	+ [Huawei, HiSilicon], [MediaTek], [LGE], [CATT], [CMCC], [InterDigital]
* Alt A-2. Only 1 table is configured per resource pool
	+ [ZTE, Sanechips]
* Alt A-3. Only 1 table is configured per resource pool. This can be overwritten by PC5-RRC.
	+ [Intel], [Apple], [NTT DCM]
* Alt A-4. Indication by 2nd SCI, if more than one MCS tables are configured
	+ [Futurewei], [Ericsson]

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

*Proposal 1. The MCS table is indicated by Indication by 1st SCI, if more than one MCS tables are configured (multiple MCS tables can be (pre-)configured per resource pool.*

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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| **Company** | **Views** |
| NTT DOCOMO | We are supportive of the proposal, if more than one MCS table are mandatory feature.Otherwise, i.e. if only one MCS table is mandatory feature, the mandated table is used for broadcast/groupcast. The remaining MCS tables are used for unicast only, where PC5-RRC message is exchanged. Traffic type and channel condition at the link will not be changed dynamically; hence Alt A-3 is sufficient in this case. |
| Huawei, HiSilicon | YesIndication of MCS table by 1st-stage SCI allows MCS table changes for groupcast in addition to unicast (PC-5 RRC is applicable for unicast only). PT-RS is determined based on MCS, and indication of MCS table in 2nd-stage SCI does not seem to work, unless a further elaborate scheme to enable it is envisioned. |
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