[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 | Yes  Indication 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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