# **[100b-e-NR-5G\_V2X\_NRSL-SL\_PHY\_Procedure-03] Indicating SL HARQ feedback related information**

[100b-e-NR-5G\_V2X\_NRSL-PHY-Procedure-03] Email discussion/approval regarding indicating SL HARQ feedback related information

* How to indicate HARQ feedback Option to RX UE
* How to indicate whether SL HARQ feedback is enabled or disabled to RX UE
* Whether to support mixing blind and feedback-based retransmissions of a TB

till 4/24, with potential TPs by 4/29 (Hanbyul, LGE)

**1. How to indicate SL HARQ feedback enabling/disabling and HARQ feedback Option to RX UE**

Q1: Do you agree that at least two 2nd SCI formats are defined, one containing Zone ID and Communication range requirement and another one not containing them?

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Q1-1: If the answer to Q1 is yes, which HARQ operation can be selected when the 2nd SCI format contains Zone ID and Communication range requirement?

- Candidates for HARQ operation: No HARQ feedback, GC HARQ feedback Option 1, GC HARQ feedback Option 2, unicast HARQ feedback

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Q1-2: If the answer to Q1 is yes, which HARQ operation can be selected when the 2nd SCI format does NOT contains Zone ID and Communication range requirement?

- Candidates for HARQ operation: No HARQ feedback, GC HARQ feedback Option 1, GC HARQ feedback Option 2, unicast HARQ feedback

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Q1-3: If the answer to Q1 is yes, how many 2nd-SCI formats are defined for those with and without Zone ID and Communication range requirement? In each format, is an explicit field included to indicate whether SL HARQ feedback is enabled or disabled, and/or which option is used?

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Q1-4: If the answer to Q1 no, do you agree that an explicit is necessary to indicate whether SL HARQ feedback is enabled or disabled, and which option is used?

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Q2: How does the RX UE decide whether unicast HARQ feedback and GC HARQ feedback Option 2 is in use?

- Option 1: Different 2nd-SCI formats

- Option 2: Explicit indicator in 2nd-SCI

- Option 3: Using L1-destination ID

- Option 4: Others (please specify it)

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**2. Whether to support mixing blind and feedback-based retransmissions of a TB**

Q3: Do you think mixing blind and feedback-based retransmission of a TB (as detailed in the following) is necessary?

Q3-1: Do you think the specification needs to support the following case? If yes, what is the motivation?

- transmission of a TB in a slot indicates “HARQ feedback disabled” but retransmission of the same TB in another slot indicates “HARQ feedback enabled”

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Q3-2: Do you think the specification needs to support the following case? If yes, what is the motivation?

- transmission of a TB in a slot indicates “HARQ feedback enabled” but retransmission of the same TB takes place in another slot without considering the HARQ feedback corresponding to the first transmission

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Q3-3: Do you think there are other cases that needs to be considered as mixing blind and feedback-based retransmissions of a TB?

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