Proposal for email thread topics for Rel-16 5G V2X maintenance

Thread 1: PS-1: Procedure to receive PSCCH

* Changes for PS-1: confirm the overhead values for SL max data rate can be discussed in the CR preparation.

Company input

* PS-1
	+ Delete: OPPO, Huawei, DOCOMO
	+ Keep: Sharp
* DM-RS in short slot
	+ Add: OPPO, Huawei
	+ Not add: LGE, Sharp

Thread 2: Clarification on the S-SSB slot

* SY-4: Determination of slots including S-SSB transmission
* SY-6: Restriction of S-SSB slot
* Corrections for SY-1 Correction on SL-BCH, SY-2 Corrections/clarifications on S-SSB and SL-SSID can be discussed in the CR preparation.

Company input

* SY-4
	+ Delete: Huawei, Sharp (can be okay)
* SY-6
	+ Keep: Huawei, DOCOMO

Thread 3: Issues related to SL HARQ-ACK reporting to gNB

* M1-1-1: How to multiplex SL HARQ-ACK on a PUSCH scheduled by DCI 0-2
* M1-1-2: Codebook configuration
* M1-1-3-1: Issues related to varying number of PSSCH slots associated with the PSFCH slot
* M1-1-4: Clarifications on PUCCH slot/resource determination
* M1-1-5-1: Priority value of a HARQ-ACK information bit in exceptional cases
* “Simpler corrections” in M1-1-5-4, 7-1, 7-2, 7-3, 7-4, 7-5, 7-6 can be discussed during the CR preparation.

Company input

* M1-1-3
	+ Delete: Huawei
	+ Keep: Sharp, DOCOMO (ok)
* M1-1-1-5-1
	+ Delete: Huawei, DOCOMO (ok?)
	+ Keep: Sharp
* M1-1-5-2
	+ Add: OPPO
	+ Not add: LGE
* M1-1-3-2
	+ Add: ZTE
* M1-7-1
	+ Delete: Huawei
* M1-7-4
	+ Delete: Huawei

Thread 4: UE behavior regarding non-monitored slots in mode 2

* M2-14: Correction to step 6) to include slots within Tproc0
* M2-17: Clarify that hypothetical SCI in step 5) assumes N=1 num of repetitions
* Changes for the uncaptured agreement (M2-3: Capture RAN1#103-e agreement on pre-emption) can be discussed during the CR prepration.

Company input

* M2-1:
	+ Add: OPPO
	+ Not add: LGE
* M2-14
	+ Delete: OPPO, LGE, Huawei, ZTE
	+ Keep: DOCOMO, Samsung

Thread 5: Remaining UL/SL prioritization rule

* PP-1-1: How SL HARQ-ACK report is piggybacked on PUSCH
* PP-1-2: Prioritization rule between PUSCH carrying SL HARQ-ACK reports and SL transmission
* PP-1-3: Further consideration on prioritization rule between PUCCH for the response of MsgB and SL TX
* PP-1-4: Further consideration on prioritization rule between SL reception and PUCCH carrying SL HARQ-ACK report
* PP-1-5: Further consideration on how to handle the case when a UE drops PSCCH/PSSCH retransmission due to lack of processing time

Company input

* General concern?: Huawei
* PP-1-1
	+ Keep: DOCOMO
	+ Delete: ZTE
* PP-1-2
	+ Keep: DOCOMO (ok)
	+ Delete: ZTE
* PP-1-3
	+ Keep: DOCOMO (ok)
	+ Delete: ZTE (ok to keep)
* PP-1-4
	+ Keep: ZTE
* PP-1-5
	+ Delete: ZTE, DOCOMO

Thread 6: PP-4: Interpretation of resource reservation period field in a SCI format 1-A (the same issue in M2-2: Clarification on UE procedure for determining the number of logical slots for a reservation period)

Company input

* PP-4
	+ Delete: OPPO
	+ Keep: Huawei, DOCOMO

Thread 7 (separated from the allocated email thread budget): M2-10: MCS range for Mode-2 per MCS table (reply to R1-2009644)

Thread 8 (separated from the allocated email thread budget): LS reply to R1-2100009 (sidelink switching priority)

Proposal update #1

Thread 1: PS-1: SL max data rate

* Editorial changes for FD-OCC, CSI-RS resources, reference in SCI fields, MCS threshold for SL PT-RS can be discussed in the CR preparation.

Thread 2: Clarification on the S-SSB slot

* SY-4: Determination of slots including S-SSB transmission
* SY-6: Restriction of S-SSB slot
* Corrections for SY-1 Correction on SL-BCH, SY-2 Corrections/clarifications on S-SSB and SL-SSID can be discussed in the CR preparation.

Thread 3: Issues related to SL HARQ-ACK reporting to gNB

* M1-1-1: How to multiplex SL HARQ-ACK on a PUSCH scheduled by DCI 0-2
* M1-1-2: Codebook configuration
* M1-1-3-1: Issues related to varying number of PSSCH slots associated with the PSFCH slot
* M1-1-4: Clarifications on PUCCH slot/resource determination
* M1-1-5-1: Priority value of a HARQ-ACK information bit in exceptional cases
* “Simpler corrections” in M1-1-5-4, 7-2, 7-3, 7-5, 7-6 can be discussed during the CR preparation.

Thread 4: UE behavior regarding non-monitored slots in mode 2

* M2-17: Clarify that hypothetical SCI in step 5) assumes N=1 num of repetitions
* Changes for the uncaptured agreement (M2-3: Capture RAN1#103-e agreement on pre-emption) can be discussed during the CR preparation.

Thread 5: Remaining UL/SL prioritization rule

* PP-1-1: How SL HARQ-ACK report is piggybacked on PUSCH
* PP-1-3: Further consideration on prioritization rule between PUCCH for the response of MsgB and SL TX
* PP-1-4: Further consideration on prioritization rule between SL reception and PUCCH carrying SL HARQ-ACK report

Thread 6: PP-4: Interpretation of resource reservation period field in a SCI format 1-A (the same issue in M2-2: Clarification on UE procedure for determining the number of logical slots for a reservation period)

Thread 7 (separated from the allocated email thread budget): M2-10: MCS range for Mode-2 per MCS table (reply to R1-2009644)

Thread 8 (separated from the allocated email thread budget): LS reply to R1-2100009 (sidelink switching priority)

Proposal 2

If a UE transmits a SCI format 1-A in slot n in a resource pool, and if “Resource reservation period” in the SCI format 1-A indicates P’ (following 8.1.7 of 38.214),

* P’ is counted in *t'0SL,t'1SL,t'2SL,…* (i.e. The number of slots in the resource pool between slot n and slot n+P’ is always the same as P’ (including slot n+P’ itself)).
	+ Updated equation in 8.1.7 (N is the number of slots belonging to the resource pool)

Corresponding CR is agreed in

[**R1-2009517**](../Docs/R1-2009517.zip) **Corrections related to the sidelink slot index Moderator (LG Electronics), Huawei, HiSilicon**

**Decision:** As per email decision posted on Nov 5th, CR (38.213, Rel-16, CR0154, cat F) is agreed.

[**R1-2009518**](../Docs/R1-2009518.zip) **Corrections related to the sidelink slot index Moderator (LG Electronics) , Huawei, HiSilicon**

**Decision:** As per email decision posted on Nov 5th, CR (38.214, Rel-16, CR0140, cat F) is agreed.

**Conclusion:** As per email decision posted on Nov 9th, postpone the discussion/decision on proposal 2 to next meeting.