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

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 update #2

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
* M1-1-4: Clarifications on PUCCH slot/resource determination
* “Simpler corrections” in M1-1-5-4 (Exceptional reports: Due to intra-prioritization: Correction because it applies to DG and CG), 7-2 (Clarification about PUCCH TX power), 7-3 (Clarification that higher layer parameter N1PUCCH-AN-r16 is used only for SL CG type 1) 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)