

3GPP TSG RAN WG1#104bis-e

R1-2103932

e-Meeting, April 12th – 20th, 2021

Agenda Item: 7.2.2

Source: Moderator (Lenovo)

Title: Feature lead summary for [104b-e-NR-NRU-05] Email discussion/approval on DL signals and channels

Document for: Discussion, Decision

1 Scope of Discussion

This document summarises the discussion on the following topic:

[104b-e-NR-NRU-05] A reply LS to the remaining issues as in R1-2100008 is necessary – email discussion/approval till Apr-16. To be handled under 7.2.2 – Alex (Lenovo)

2 Topic DL-B: CSI Measurement, Report

2.1 Issue DL-B2: Measurement during SCell activation

In RAN1#104-e, the LS from RAN4 was discussed [R1-2100008]. There was consensus on Question 1 and a reply LS was sent to RAN4 clarifying the understanding from RAN1.

Table 1: Reply to RAN4 for Question 1 in R1-2100008.

Question by RAN4 (1) When none of the RRC parameters *CO-DurationPerCell-r16*, *SlotFormatIndicator*, and *CSI-RS-ValidationWith-DCI-r16* is configured for a UE on the being-activated SCell,

What is the expected UE behaviour for this P/SP CSI-RS measurement and report on the being-activated SCell?

Reply by RAN1: As in Rel-15, the UE is expected to receive the P/SP CSI-RS.

The following questions have been unresolved so far:

Table 2: Unresolved Questions by RAN4

Question by RAN4 (2) When RRC parameters CSI-RS-ValidationWith-DCI-r16 is configured, but SlotFormatIndicator and CO-DurationPerCell-r16 are not configured for the being-activated SCell,

a. What is the expected UE behavior for this P/SP CSI-RS measurement and report on the being-activated SCell? Does UE need to decode a DCI format from other active serving cell (indicating an aperiodic CSI-RS reception or scheduling a PDSCH reception in the set of symbols of the slot) for this being-activated SCell to validate this P/SP CSI-RS?

Question by RAN4 (3) When RRC parameters CO-DurationPerCell-r16 is configured but SlotFormatIndicator is not configured for the being-activated SCell,

a. What is the expected UE behavior for this P/SP CSI-RS measurement and report on the being-activated SCell? Does UE need to decode a DCI format 2_0 (indicating remaining channel occupancy duration) from other active serving cell for this being-activated SCell to validate the CSI-RS?

Question by RAN4 (4) When RRC parameters CO-DurationPerCell-r16 is not configured but SlotFormatIndicator is configured for the being-activated SCell,

a. What is the expected UE behavior for this P/SP CSI-RS measurement and report on the being-activated SCell? Does UE need to detect a DCI format 2_0 (indicating the starting point of CO duration and the slot format) from other active serving cell for this being-activated SCell to validate the CSI-RS?

2.1.1 Proposals in R1-2102326

(For Question 2) *The configuration of CSI-RS-ValidationWith-DCI will take effect only after the SCell is activated.*

(For Question 3/4) *The behavior of CSI-RS validation during SCell activation when either CO-DurationPerCell-r16 or SlotFormatIndicator is configured has been already defined in the section 11.1.1 in TS38.213.*

2.1.2 Proposals in R1-2102787

Provide answers to RAN4 regarding Questions 2, 3, and 4 stating that the currently specified behavior in 38.213 Section 11.1.1 for p/sp-CSI-RS cancellation / validation applies also to an SCell being activated.

2.1.3 Proposals in R1-2103335

Proposal #1:*For a UE on a being-activated SCell, before the SCell is activated,*

- *The UE does not monitor any DCI on the SCell.*
- *The UE does not monitor a DCI on other activated cell (e.g., PCell) that can schedule PDSCH on the being-activated SCell.*
- *The UE is not required to use information of the being-activated SCell in DCI format 2_0 on other activated cell.*
- *The UE is not required to use information of the being-activated SCell in*

UL grant on other activated cell that can trigger aperiodic CSI-RS on the being-activated SCell.

Proposal #2: When RRC parameter *csi-RS-ValidationWithDCI-r16* is configured, but *CO-DurationsPerCell* and *SlotFormatCombinationsPerCell* are not configured for a UE on a being-activated SCell, before the SCell is activated, UE is not required to receive P/SP-CSI-RS for the being-activated SCell.

Proposal #3: When one of *CO-DurationsPerCell* and *SlotFormatCombinationsPerCell* is configured for a UE on a being-activated SCell, before the SCell is activated, UE is not required to receive P/SP-CSI-RS for the being-activated SCell.

2.1.4 Proposals in R1-2103485

Proposal 1: Table 1 provides three alternatives for understanding “2> not monitor the PDCCH for the SCell;” for deactivated SCell and/or being-activated SCell. Among them, Alt 1 is a more appropriate understanding unless RAN2 will further specify the detailed PDCCH types that UE does not monitor.

Alt 1: Above is applied for any types of DCI, including cross-carrier scheduling of PDSCH/PUSCH, cross-carrier triggering of ap-CSI-RS, and DCI format 2_0

Alt 2: Above is applied for a DCI cross-carrier scheduling of PDSCH/PUSCH and cross-carrier triggering of ap-CSI-RS, but not for DCI format 2_0

Alt 3: Above is applied for a DCI cross-carrier scheduling of PDSCH/PUSCH, but not for cross-carrier triggering of ap-CSI-RS and DCI format 2_0

Proposal 2: RAN1 can send a LS to RAN2 for confirming whether RAN1 has a correct understanding and whether RAN2 has other understandings on “2> not monitor the PDCCH for the SCell;”.

Proposal 3: Table 1 provides two opinions for considering whether section 11 in TS 38.213 is also applicable to a being-activated SCell. Among them, Opt 2 is preferred as UE will not monitor any PDCCH during SCell activation.

Opt 1: Section 11 in TS 38.213 is applied for a active cell and/or a being activated SCell

Opt 2: Section 11 in TS 38.213 is only applied for a active cell

Proposal 4: If RAN1 can reach a consensus on Alt 1 and Opt 2, the same answer given in Table 1 can be adopted for answering Q1 Q4 from RAN4, that is, UE proceeds with the p/sp-CSI-RS measurement in the set of symbols of the slot during SCell activation as in Rel-15.

Proposal 5: If RAN1 can reach a consensus on Alt 1 and Opt 1, the answers given in Table 1 can be adopted for answering Q1 Q4 from RAN4.

Answer for Q1: UE receives/cancels p/sp-CSI-RS as in Rel-15

Answer for Q2: UE cancels p/sp-CSI-RS reception as in Rel-16 NR-U

Answer for Q3: UE receives/cancels p/sp-CSI-RS as in Rel-15

Answer for Q4: UE receives/cancels p/sp-CSI-RS as in Rel-15

2.2 Discussion and Feedback

Please provide your thoughts and suggestions for a reply to RAN4 on any of the open questions.

2.2.1 Discussion for Question 2

Question 2:

When RRC parameters CSI-RS-ValidationWith-DCI-r16 is configured, but SlotFormatIndicator and CO-DurationPerCell-r16 are not configured for the being-activated SCell,

- a. What is the expected UE behavior for this P/SP CSI-RS measurement and report on the being-activated SCell? Does UE need to decode a DCI format from other active serving cell (indicating an aperiodic CSI-RS reception or scheduling a PDSCH reception in the set of symbols of the slot) for this being-activated SCell to validate this P/SP CSI-RS?

Feedback Form 1: Discussion for Question 2

Item	Com-pany	Comments
1	ZTE Cor- poration	<p>For this issue, we think DCI types that UE is not required to detect on/for a being activated SCell should be firstly clarified by RAN2. Before there is no any clarification from RAN2, we think that the literal meaning of this sentence "not monitor the PDCCH on/for the SCell" specified in TS 38.321 is UE does not detect any type of DCI. here, PDCCH includes all types of DCI.</p> <p>Based on the above understanding, if UE does not detect any type of DCI on/for a being activated SCell, then we think Section 11 in TS 38.213 is only applied for an active cell, not for being activated SCell, because the title of Section 11 is "UE-group common signalling", which means a UE for a cell can at least detect a group common signalling.</p> <p>To sum up, we think for question 2 that UE proceeds with the P/SP CSI-RS measurement in the set of symbols of the slot during SCell activation as in Rel-15.</p> <p>Optionally, we also agree that RAN1 can send an LS to RAN2 first to clarify the understanding of this sentence "not monitor the PDCCH on/for the SCell" specified in TS 38.321 and second discussion it in RAN1.</p>

Item	Company	Comments
2	LG Electronics Inc.	<p>We have a similar view with ZTE in that UE is not required to use information of the being-activated SCell in DCI format 2_0 on other activated cell and also not required to use information of the being-activated SCell in UL grant on other activated cell that can trigger aperiodic CSI-RS on the being-activated SCell, regardless of detection for those DCIs.</p> <p>Based on this interpretation, our view for Question 2 is that, UE is not required to receive P/SP-CSI-RS for the being-activated SCell.</p> <p>Question to ZTE: If UE follows Rel-15 rule, what is expected UE behavior? Does UE always assume that configured CSI-RS is present for the being-activated SCell?</p>
3	ZTE Corporation	<p>Answer to LG:</p> <p>For Rel-15 rule, we think UE can receive P/SP CSI-RS in the set of symbols for being activated SCell and such UE behavior for being activated SCell follows that of deactivated SCell as specified in Section 5.9 of TS 38.321 considering SCell is in a state before activation state. Herein, referenced spec text is copied below:</p> <p>Section 5.9 of TS 38.321 if the SCell is deactivated:</p> <ul style="list-style-type: none"> 2> not transmit SRS on the SCell; 2> not report CSI for the SCell; 2> not transmit on UL-SCH on the SCell; 2> not transmit on RACH on the SCell; 2> not monitor the PDCCH on the SCell; 2> not monitor the PDCCH for the SCell; 2> not transmit PUCCH on the SCell. <p>It can be deduced from the above spec text that P/SP CSI-RS can be allowed to transmit on the deactivated SCell while only the above mentioned informations are not allowed to transmit on the deactivated SCell.</p> <p>For 2nd issue from LG, in our understanding, if CSI-RS is configured, then the configured CSI-RS will appear for being activated SCell based on the above our understanding.</p> <p>Certainly, the above understanding for Section 5.9 of TS 38.321 can also be sent to RAN2 for confirmation.</p>

Item	Company	Comments
4	Ericsson Inc.	<p>We do not agree with either ZTE or LGE's view, and we do not think that an LS to RAN2 is the proper approach; PDCCH monitoring is RAN1's business. Regarding ZTE's alternatives, Alt-3 is the current specified behavior for PDCCH monitoring, and leads to the conclusion that the currently specified Rel-16 behavior for p/sp-CSI-RS reception/cancellation in 38.213 Section 11.1.1 applies, i.e., Opt-1.</p> <p>In arriving at Alt-3, the following paragraph from 38.213 Section 10 is relevant (defines PDCCH monitoring):</p> <p><i>A UE monitors a set of PDCCH candidates in one or more CORESETs on the active DL BWP on each activated serving cell configured with PDCCH monitoring according to corresponding search space sets where monitoring implies decoding each PDCCH candidate according to the monitored DCI formats.</i></p> <p>Additionally, the following paragraph from 38.213 Section 10.1 is relevant:</p> <p><i>n_CI is the carrier indicator field value if the UE is configured with a carrier indicator field by CrossCarrierSchedulingConfig for the serving cell on which PDCCH is monitored; otherwise, including for any CSS, n_CI = 0;</i></p> <p>Clearly, the UE is configured to monitor PDCCH on the PCell for PDSCH/PUSCH scheduling also on the PCell. Such a PDCCH can include the CSI request field that triggers ap-CSI-RS on the SCell being activated. In this case, the search space that the UE monitors is not hashed with the carrier indicator field (CIF), so clearly does not fall under the definition "monitoring on/for the SCell." Importantly, if the phrase "monitoring on/for the SCell" would be interpreted to apply to a search space not hashed with CIF, then the UE would not be required to decode PDCCH candidates for the PCell (including scheduling PDSCH/PUSCH for the PCell), which is clearly not correct.</p> <p>Furthermore, the UE can be configured to monitor PDCCH on the PCell in a Type3-PDCCH CSS. Such a PDCCH can include an indication of RB sets, CO duration, and SFI on the SCell being activated. Also, in this case, the search space that the UE monitors is not hashed with the CIF according to the above paragraph from 38.213 Section 10.1, so clearly does not fall under the definition "monitoring on/for the SCell." Again, if the phrase "monitoring on/for the SCell" would be interpreted to apply to a search space not hashed with CIF, then the UE would not be required to decode PDCCH candidates for the PCell (including DCI 2_0 indicating RB set availability, CO duration, and SFI for the PCell), which is clearly not correct.</p> <p>In summary, the answer to RAN2's Question 2 is that the currently specified Rel-16 behavior in 38.213 Section 11.1.1 for p/sp-CSI-RS cancellation / validation applies also to an SCell being activated.</p>

Item	Company	Comments
5	LG Electronics Inc.	<p>Reply to ZTE: The being-activated SCell is NR-U cell and gNB cannot ensure that CSI-RS on that NR-U cell is always present. For this case, why gNB configures CSI-RS-ValidationWith-DCI-r16? If UE does not detect any type of DCI containing information for that NR-U cell based on ZTE's interpretation of RAN2 specification, the consequence should be that UE cancels CSI-RS for being-activated in case that CSI-RS-ValidationWith-DCI-r16 is configured for the SCell.</p> <p>Reply to Ericsson: We don't disagree that UE can decode a DCI on PCell even though the DCI includes information on the being-activated SCell. In other words, UE can decode DCI format 2_0 that is transmitted on PCell and contains information of being-activated SCell and also can decode UL grant that is transmitted on PCell and triggers aperiodic CSI-RS on being-activated SCell. However, the point is that UE is not required to use any information for SCell just for the purpose of validation of CSI-RS on the being-activated NR-U SCell.</p>
6	Apple Poland Sp. z.o.o.	<p>In general, we share the exactly same view as LGe, i.e. UE is not required to monitor PDCCH on and for the being activated SCell during SCell activation procedure as clearly stated in TS 38.321. The only way to solve this problem of different interpretation is to send LS to RAN2 for clarification i.e. what is the exact intention when they create the specification. We fails to see any reason to block the LS to RAN2 given the current situation created by RAN2 specification.</p>
7	HUAWEI TECHNOLOGIES Co. Ltd.	<p>For the case of cross carrier triggering AP-CSI-RS, UE may not require to monitor that DCI 0-1 according to RAN2 spec. So the configuration of <i>CSI-RS-ValidationWith-DCI</i> should not take effect until the scell is activated. However, the SCell activation procedure will not move forward if there is no valid CSI report on the being activated SCell. So it is necessary for UE to receive the preconfigured P/SP-CSI-RS assuming <i>CSI-RS-ValidationWith-DCI</i> is not configured.</p>
8	ZTE Corporation	<p>Further repond to LG: From a technical point of view, we agree with UE behavior suggested by LG, that is, UE can cancel CSI-RS for being-activated SCell. but such UE behavior may result in new spec impact. In order to ensue less spec impact and change, we suggest that UE can receive CSI-RS for being-activated SCell regardless of whether gNB had successfully occupied channel and transmited CSI-RS as long as CSI-RS is configured.</p>

Item	Company	Comments
9	Ericsson Inc.	<p>Hi again, I have a couple of questions.</p> <p>@Apple: I don't understand the statement "... share the same view as LG, i.e., it is not required to monitor PDCCH on and for the being activated SCell". LG clearly stated "We don't disagree that UE can decode a DCI on PCell even though the DCI includes information on the being-activated SCell. In other words, UE can decode DCI format 2_0 that is transmitted on PCell and contains information of being-activated SCell and also can decode UL grant that is transmitted on PCell and triggers aperiodic CSI-RS on being-activated SCell." The DCI that LG is talking about corresponds to a search space configured on the PCell that is not hashed with CIF, and thus the UE is monitoring on and for the PCell.</p> <p>We don't agree that this situation is created by RAN2 specification. It is very clear what "on/for" means. This terminology is used in many places in RAN1 specifications. If the argument is about what that means then this will lead to many RAN1 spec changes, and that is not advisable.</p> <p>@Huawei: Regarding the statement "For the case of cross carrier triggering AP-CSI-RS, UE may not require to monitor that DCI 0-1 according to RAN2 spec." With this statement, you are effectively saying that the UE is not supposed to monitor DCI 0_1 on and for the PCell, since that DCI can contain an ap-CSI-RS trigger. The the search space in this case is configured on the PCell and is not hashed with CIF, so it is not scheduling PDSCH/PUSCH for the being activated SCell.</p>
10	Apple Poland Sp. z.o.o.	<p>@Ericsson, what we stated is 'it is not required to monitor PDCCH...', this is exactly same as What LG said 'However, the point is that UE is not required to use any information for SCell just for the purpose of validation of CSI-RS on the being-activated NR-U SCell.'. Please copy the whole sentence, instead of only the first part of reply and mis-lead the discussion.</p>
11	Apple Poland Sp. z.o.o.	<p>We also share the view from Huawei that 'For the case of cross carrier triggering AP-CSI-RS, UE may not require to monitor that DCI 0-1 according to RAN2 spec.'. We can spend all times here to debate what the means of RAN2 spec, however, I really doubt whether it is the feasible way if companies really want to solve this problem, since it is very clear that different companies have different interpretation on RAN2 spec and can not convince each other. Why it is so difficult to send LS to RAN2 to clarify this?</p>
12	Qualcomm Incorporated	<p>Our understanding is, the UE is not expecting to receive a DL grant in being activated SCell, so PDSCH based P/SP-CSI-RS validation is not possible. Similarly, the UE is not expecting to receive AP-CSI-RS trigger for being activated SCell, so using AP-CSI-RS to validate P/SP-CSI-RS should be avoided as well. Then then natural behavior is there is no signal the UE can use to validate P/SP-CSI-RS even if the <i>CSI-RS-ValidationWith-DCI</i> is configured, so the UE should not measure P/SP-CSI-RS at this phase.</p>

2.2.2 Discussion for Question 3

Question 3:

When RRC parameters CO-DurationPerCell-r16 is configured but SlotFormatIndicator is not configured for the being-activated SCell,

- a. What is the expected UE behavior for this P/SP CSI-RS measurement and report on the being-activated SCell? Does UE need to decode a DCI format 2_0 (indicating remaining channel occupancy duration) from other active serving cell for this being-activated SCell to validate the CSI-RS?

Feedback Form 2: Discussion for Question 3

Item	Company	Comments
1	ZTE Corporation	<p>Same answer as for Question 2.</p> <p>Besides, for Question 3, we noticed that some companies think CSI-RS validation can be determined by using COT duration in DCI format 2-0 received by UE in last active state. for this view, we do not think COT duration in such a DCI format 2-0 is still valid after SCell active->de-active->being active.</p> <p>Thus, we think for Question 3 that UE proceeds with the P/SP CSI-RS measurement in the set of symbols of the slot during SCell activation as in Rel-15. Optionally, we also agree that RAN1 can send an LS to RAN2 first to clarify the understanding of this sentence "not monitor the PDCCH on/for the SCell" specified in TS 38.321 and second discussion it in RAN1.</p>
2	LG Electronics Inc.	<p>Similar to Question 3, our view for Question 3 is that, UE is not required to receive P/SP-CSI-RS for the being-activated SCell.</p> <p>Question to ZTE: If UE follows Rel-15 rule, what is expected UE behavior? Does UE always assume that configured CSI-RS is present for the being-activated SCell?</p>

Item	Company	Comments
3	ZTE Corporation	<p>Answer to LG:</p> <p>For Rel-15 rule, we think UE can receive P/SP CSI-RS in the set of symbols for being activated SCell and such UE behavior for being activated SCell follows that of deactivated SCell as specified in Section 5.9 of TS 38.321 considering SCell is in a state before activation state. Herein, referenced spec text is copied below:</p> <p>Section 5.9 of TS 38.321 if the SCell is deactivated:</p> <ul style="list-style-type: none"> 2> not transmit SRS on the SCell; 2> not report CSI for the SCell; 2> not transmit on UL-SCH on the SCell; 2> not transmit on RACH on the SCell; 2> not monitor the PDCCH on the SCell; 2> not monitor the PDCCH for the SCell; 2> not transmit PUCCH on the SCell. <p>It can be deduced from the above spec text that P/SP CSI-RS can be allowed to transmit on the deactivated SCell while only the above mentioned informations are not allowed to transmit on the deactivated SCell.</p> <p>For 2nd issue from LG, in our understanding, if CSI-RS is configured, then the configured CSI-RS will appear for being activated SCell based on the above our understanding.</p> <p>Certainly, the above understanding for Section 5.9 of TS 38.321 can also be sent to RAN2 for confirmation.</p>
4	Ericsson Inc.	<p>We do not agree with ZTE's and LGE's view. Please see comments regarding Question 2 which are also relevant for Question 3.</p> <p>In summary, the answer to RAN2's Question 3 is that the currently specified Rel-16 behavior in 38.213 Section 11.1.1 for p/sp-CSI-RS cancellation / validation applies also to an SCell being activated.</p>
5	LG Electronics Inc.	Same comments with Question 2 above.
6	Apple Poland Sp. z.o.o.	Agree with LG and ZTE's views. We are supportive to send LS to RAN2 to clarify this. Otherwise, we fail to see any chance to make progress on this issue.
7	HUAWEI TECHNOLOGIES Co. Ltd.	We think the situation for DCI 2-0 is different from the DCI 0-1 triggering AP-CSI-RS. UE is still required to detect SFI or COT duration as part of the DCI is still valid. In such case, the validation rules defined in Rel-15 and Rel-16 can be used.
8	ZTE Corporation	Same reply to LG as Question 2 above.

Item	Company	Comments
9	Qualcomm Incorporated	For both Question 3 and Question 4, if the DCI 2-0 carries the SFI or COT-DurationPerCell-r16 only carries the field for the being activated SCell, per RAN2 design, the UE will not monitor them. In this case, the fields cannot be used for P/SP-CSI-RS validation, and UE should assume the P/SP-CSI-RS not validated and should not receive them. If the DCI 2-0 carries SFI or COT-DurationPerCell-r16 for other activated SCell as well, the UE will decode the DCI 2-0 and has the opportunity to recover the field for the being activated SCell. However, it is our preference not to introduce different behavior on how to apply the field based on how and what other fields these fields are multiplexed with. Thus we prefer a unified and simple behavior that UE ignores the SFI or COT-DurationPerCell-r16 for being activated SCell and not to receive P/SP-CSI-RS.

2.2.3 Discussion for Question 4

Question 4:

When RRC parameters CO-DurationPerCell-r16 is not configured but SlotFormatIndicator is configured for the being-activated SCell,

- a. What is the expected UE behavior for this P/SP CSI-RS measurement and report on the being-activated SCell? Does UE need to detect a DCI format 2_0 (indicating the starting point of CO duration and the slot format) from other active serving cell for this being-activated SCell to validate the CSI-RS?

Feedback Form 3: Discussion for Question 4

Item	Company	Comments
1	ZTE Corporation	Same answer as in Question 2 and Question 3, that is, we think for Question 4 that UE proceeds with the P/SP CSI-RS measurement in the set of symbols of the slot during SCell activation as in Rel-15. Optionally, we also agree that RAN1 can send an LS to RAN2 first to clarify the understanding of this sentence "not monitor the PDCCH on/for the SCell" specified in TS 38.321 and second discussion it in RAN1.
2	LG Electronics Inc.	Similar to Question 4, our view for Question 4 is that, UE is not required to receive P/SP-CSI-RS for the being-activated SCell. Question to ZTE: If UE follows Rel-15 rule, what is expected UE behavior? Does UE always assume that configured CSI-RS is present for the being-activated SCell?

Item	Company	Comments
3	ZTE Corporation	<p>Answer to LG:</p> <p>For Rel-15 rule, we think UE can receive P/SP CSI-RS in the set of symbols for being activated SCell and such UE behavior for being activated SCell follows that of deactivated SCell as specified in Section 5.9 of TS 38.321 considering SCell is in a state before activation state. Herein, referenced spec text is copied below:</p> <p>Section 5.9 of TS 38.321 if the SCell is deactivated:</p> <ul style="list-style-type: none"> 2> not transmit SRS on the SCell; 2> not report CSI for the SCell; 2> not transmit on UL-SCH on the SCell; 2> not transmit on RACH on the SCell; 2> not monitor the PDCCH on the SCell; 2> not monitor the PDCCH for the SCell; 2> not transmit PUCCH on the SCell. <p>It can be deduced from the above spec text that P/SP CSI-RS can be allowed to transmit on the deactivated SCell while only the above mentioned informations are not allowed to transmit on the deactivated SCell.</p> <p>For 2nd issue from LG, in our understanding, if CSI-RS is configured, then the configured CSI-RS will appear for being activated SCell based on the above our understanding.</p> <p>Certainly, the above understanding for Section 5.9 of TS 38.321 can also be sent to RAN2 for confirmation.</p>
4	Ericsson Inc.	<p>We do not agree with ZTE's and LGE's view. Please see comments regarding Question 2 which are also relevant for Question 4.</p> <p>In summary, the answer to RAN2's Question 4 is that the currently specified Rel-16 behavior in 38.213 Section 11.1.1 for p/sp-CSI-RS cancellation / validation applies also to an SCell being activated.</p>
5	LG Electronics Inc.	Same comment with Question 2 above.
6	Apple Poland Sp. z.o.o.	Agree with LG and share the same view.
7	HUAWEI TECHNOLOGIES Co. Ltd.	Same comment as question 3
8	ZTE Corporation	Same reply to LG as Question 2 above.
9	Qualcomm Incorporated	Same comment as question 3

3 Summary

It seems that companies are not converging in this meeting towards a reply to RAN4, and several companies suggest or are fine with sending an LS to RAN2.

A draft LS to RAN2 for consideration is available in R1-2104096.