3GPP TSG-RAN WG2 Meeting #115 Electronic R2-21xxxxx

Electronic, 16 – 27 August 2021

Agenda Item: 5.4.1.3

Source: Huawei, HiSilicon

Title: [AT115-e][014][NR15] CP Other (Huawei)

Document for: Discussion, Decision

# 1 Introduction

This document is to kick off the following email discussion:

**[AT115-e][014][NR15] CP Other (Huawei)**

 Scope: Determine agreeable parts in a first phase, for agreeable parts agree on CRs. Treat R2-2108290, R2-2108644, R2-2108645, R2-2107022, R2-2108646, R2-2108647, R2-2107377, R2-2107378, R2-2107573, R2-2108571

 Intended outcome: Report, agreed CRs if applicable

 Deadline: Schedule 1

The guidance for deadline is below:

A **first round** with **Deadline for comments Thursday Aug 19 1200 UTC** to settle scope what is agreeable etc

A Final round with **Final deadline Thursday Aug 26 1200 UTC.** to settle details / agree CRs etc. Additional check points etc if needed are defined by the Rapporteur. In case some parts of an email discussion need more time, doesn’t converge, need on-line treatment etc Rapporteur please contact chair.

# Contact Information

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# Discussion

Companies are requested to add their comments on each of the CRs of this email discussion in the questionnaires below.

## Rapporteur CR

[R2-2108290](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108290.zip) Miscellaneous non-controversial corrections Set XI Ericsson CR Rel-15 38.331 15.14.0 2762 - F NR\_newRAT-Core

The changes are:

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| Miscellaneous non-controversial errors are corrrected.1. “TBD” in Guidelines section

Deleted “TBDs” for examples in the Guidelines section (Annex A) that have never been introduced.Corrected also some other typos. |

**Q1: Do you agree with the changes in R2-2108290?**

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| --- | --- | --- |
| Company | Agree?(Yes or No) | Comments |
| MediaTek |  | The first change (remove comma) on smtc field seems not necessary (Note that this part is different from R16). “The SSB periodicity/offset/duration configuration of target cell for NR PSCell change, NR PCell change and (for NR-DC) NR PSCell addition.”Others look ok. |
| Nokia |  | Yes looks okay |
| ZTE | Yes | It seems no harm to remove the comma.  |
| Ericsson | Yes(Propoent) |  |
| Huawei, HiSilicon | Yes |  |
| Samsung | Yes | Rel-16 CR (R2-2108291) has more minor corrections than Rel-15 CR but we think Rel-16 CR category should be A instead of F based on the MCC guideline i.e. If there are more substantial changes in the later release CR, we should normally split the CRs to Cat A + Cat F parts so this is clear. But in this case the changes are anyway mostly editorial so we think it’s fine to just use Cat A for all of them. |
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## SearchSpaceSIB1

[R2-2108644](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108644.zip) Clarification of search space configuration for SIB1 Huawei, HiSilicon CR Rel-15 38.331 15.14.0 2790 - F NR\_newRAT-Core

Moved from 5.4.1.1

[R2-2108645](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108645.zip) Clarification of search space configuration for SIB1 Huawei, HiSilicon CR Rel-16 38.331 16.5.0 2791 - A NR\_newRAT-Core

Moved from 5.4.1.1

[R2-2107022](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2107022.zip) Discussion on RMSI and OSI reception based on non-zero search space OPPO discussion Rel-15 NR\_newRAT-Core

The discussion was also discussed in RAN2#114 in R2-2107022, and no conclusion was made.

According to the proposals in R2-2108644/R2-2108645 and R2-2107022, there are basically the following options:

**Option 1**: if searchSpaceSIB1 is set to non-zero in dedicated BWPs, the UE monitors all PDCCH occasions as configured in searchSpaceSIB1, i.e. using TCI states like for other dedicated search spaces.

**Option 2**: clarify that the searchSpaceSIB1 can only be set to zero for both initial DL BWP and dedicated BWPs if configured.

**Option 3**: define the mapping between SIB1 PDCCH occasions and SSBs like for OSI if searchSpaceSIB1 is set to non-zero.

**Q2: Which option(s) above do you prefer, or you have other preference (please indicate that in the comment column)?**

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| Company | Preference | Comments |
| MediaTek | See comment | We feel like this is more RAN1 issue and should check with RAN1 first. Our preference is option 1 at this moment. We are however not sure any SPEC change is needed. Note that in TS 38.213 Section 10, it says that RMSI SS (=Type0-PDCCH CSS) can be provided by *searchSpaceSIB1* in *PDCCH-ConfigCommon*. And it further specifies how to monitor PDCCH candidates if the *searchSpaceID* is zero or non-zero. Therefore, we think that probably there is no issue at all. Anyway, we would suggest at least ask RAN1 before concluding in RAN2. |
| Nokia | See comment | First of all just to confirm, using non-zero SS ID for SIB1 (search space), would mean that we are looking at non-cell defining SSB (i.e. there is no Type0-PDCCH SS or CORESET#0 config in MIB). i.e. there would not be any IDLE UEs for this SSB.So, the scenario applies only for CONNECTED mode UEs right?We would prefer checking this with RAN1 as well as we are not really sure anything is really broken at this point of time.On the [R2-2108644](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108644.zip)/[R2-2108645,](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108644.zip) its an NBC change and we already agreed not to have mapping rules for this case. Hence, NW has to set SIB1 SS to zero always. |
| ZTE | See comment | First, we share the same view as Nokia, this kind of configuration only happens to connected UE when dedicated BWP does not cover CD-SSB. Based on the RAN1 LS(R2-1813287/R1-1809810) we pointed out last meeting:***Answer:*** *No, a UE does not necessarily need to monitor an SS/PBCH block associated to the additional CORESET/search space to be able to receive SI broadcast. The UE can be configured with TCI states for the additional CORESET/search space to enable SI broadcast reception.*In this case, UE follows TCI state for SIB1 reception, and network will configure SIB1 CORESET/search space associated with CSI-RS, and configures QCL relationship between CSI-RS and SSB. If anything needs to be clarified, we also think it can be clarified in RAN1 first.  |
| Ericsson | See comment | This issue was already discussed in the last meeting and it looked like we are discussing an issue that, in reality, is not there.For this reason, we basically agree with the comment from MediaTek, even if we are not sure whether an LS to RAN1 is needed.Maybe interested company can bring this directly to RAN1? |
| Huawei, HiSilicon | Option 1 | We agree with some others above. This is indeed about the case where the dedicated BWP is not overlapped with the CORESET#0 and SSB of the cell, so the network cannot provide SS#0 for SIB1 reception. The RAN1 LS (R2-1813287/R1-1809810) mentioned by ZTE is an evidence that option 1 was actually the agreed option. |
| Samsung | - | PDCCH monitoring for SIB1 is defined in RAN1 spec. No change is needed in RRC. If any change is needed in RAN1 spec (if not clear), it should be discussed in RAN1. |
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## inter-RAT measurement report triggering

[R2-2108646](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108646.zip) Correction on inter-RAT measurement report triggering Huawei, HiSilicon CR Rel-15 38.331 15.14.0 2792 - F NR\_newRAT-Core

[R2-2108647](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108647.zip) Correction on inter-RAT measurement report triggering Huawei, HiSilicon CR Rel-16 38.331 16.5.0 2793 - A NR\_newRAT-Core

The reason for changes is:

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| According to 5.5.4.1, TS 38.331, for inter-RAT E-UTRA measurement:* if the measurement is related to event B1/B2, the UE considers serving cell(s) on the associated MO as neighbour cell(s);
* else, i.e. if the measurement is the periodical report type, the UE considers neighbouring cell(s) on the associated MO which is not in the black cell list as applicable cell(s).

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| 5.5.4 Measurement report triggering5.5.4.1 GeneralIf AS security has been activated successfully, the UE shall:1> for each *measId* included in the *measIdList* within *VarMeasConfig*:2> if the corresponding *reportConfig* includes a *reportType* set to *eventTriggered* or *periodical*:……3> else if the corresponding *measObject* concerns E-UTRA:4> if *eventB1* or *eventB2* is configured in the corresponding *reportConfig*:5> consider a serving cell, if any, on the associated E-UTRA frequency as neighbour cell;4> else:5> consider any neighbouring cell detected on the associated frequency to be applicable when the concerned cell is not included in the *blackCellsToAddModListEUTRAN* defined within the *VarMeasConfig* for this *measId*; |

 Based on the above procedure, there is no description on how to determine applicable neighbouring cell(s) for the B1/B2 measurement, but in fact, the action in the “else” branch is also applicable to the B1/B2 measurement rather than only for the periodical type.Therefore, the above procedure should be modified to include the procedure of determining applicable neighbouring cell(s) for B1/B2 measurement.  |

**Q3: Do you agree with the problem identified and the changes in R2-2108646/R2-2108647?**

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| --- | --- | --- |
| Company | Agree?(Yes or No) | Comments |
| MediaTek | Yes | Maybe this could be included in Rapporteur’s CR |
| Nokia | Yes | Agree with MediaTek |
| ZTE | Yes | Agree with MediaTek. |
| Ericsson  | Yes | Agree with MediaTek. |
| Huawei, HiSilicon | Yes | Proponent |
| Samsung | Yes | This change seems correct. The ‘else’ should be removed because the neighboring cells detected on that frequency have to be considered even with eventB1 or eventB2 reporting.Cf. Note TS36.331 has same description with the change. See the captured below:1. 5.5.4 Measurement report triggering
2. 5.5.4.1 General

*(skipped)*4> else:5> if the *eventB1* or *eventB2* is configured in the corresponding *reportConfig*:6> consider a serving cell, if any, on the associated NR frequency as neighbouring cell;5> consider any neighbouring cell detected on the associated frequency to be applicable when the concerned cell is not included in the *blackCellsToAddModList* defined within the *VarMeasConfig* for this *measId*; |
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## MeasObjectEUTRA

[R2-2107377](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2107377.zip) 38331 Corrections on MeasObjectEUTRA-R15 OPPO CR Rel-15 38.331 15.14.0 2721 - F LTE\_NR\_DC\_CA\_enh-Core

Moved from 5.4.1.1

[R2-2107378](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2107378.zip) 38331Corrections on MeasObjectEUTRA-R16 OPPO CR Rel-16 38.331 16.5.0 2722 - A NR\_newRAT-Core

Moved from 5.4.1.1

The reason for changes is:

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| ccording to introduction of inter-RAT measurement in section 5.1.1, both ‘whitelisted’ cells and ‘blacklisted’ cells can be configured. While in *MeasObjectEUTRA* IE, there is no corresponding fields to configure the while list of cells. The introduction and the configuration are misaliged in current R15 RRC specification. |

**Q4: Do you agree with the problem identified and the changes in R2-2107377/R2-2107378?**

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| --- | --- | --- |
| Company | Agree?(Yes or No) | Comments |
| MediaTek | Yes | Maybe this could be included in Rapporteur’s CR |
| Nokia | Yes | Agree with MediaTek |
| ZTE | Yes | Agree with MediaTek |
| Ericsson | No | We this this is not a real issue as the whitelisted cell should be the one in the highlighed fields:MeasObjectEUTRA::= SEQUENCE { carrierFreq ARFCN-ValueEUTRA, allowedMeasBandwidth EUTRA-AllowedMeasBandwidth, cellsToRemoveListEUTRAN EUTRA-CellIndexList OPTIONAL, -- Need N cellsToAddModListEUTRAN SEQUENCE (SIZE (1..maxCellMeasEUTRA)) OF EUTRA-Cell OPTIONAL, -- Need N blackCellsToRemoveListEUTRAN EUTRA-CellIndexList OPTIONAL, -- Need N blackCellsToAddModListEUTRAN SEQUENCE (SIZE (1..maxCellMeasEUTRA)) OF EUTRA-BlackCell OPTIONAL, -- Need N eutra-PresenceAntennaPort1 EUTRA-PresenceAntennaPort1, eutra-Q-OffsetRange EUTRA-Q-OffsetRange OPTIONAL, -- Need R widebandRSRQ-Meas BOOLEAN, ...}However, if companies are eager to have this change, it can be merged in the Rapporteur’s CR. |
| Huawei, HiSilicon |  | Proponent needs to reply to Ericsson’s comment above. On the other hand, “a list of cell specific offsets” should not be removed.  |
| Samsung | Partially agreed | It is fine to remove the introduction of whitelisted cells for inter-RAT measurement, because there is no whitelist in RRC spec.But, a list of cell specific offsets should be kept. |
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## L3 filtering configuration

[R2-2107573](file:///D%3A%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2%5CTSGR2_115-e%5CDocs%5CR2-2107573.zip) Clarification on L3 filtering configuration (filterCoefficient) Apple discussion Rel-16 NR\_newRAT-Core

Moved from 6.1.4.1.2

It has following observations:

**Observation 1: The L1 measurement period which is the reference to the assumed sample rate for filterCoefficient configuration could be dynamically changed via L1/L2 mechanism.**

**Observation 2: L3 filtering configuration/implementation based on dynamic change of the L1 assumed sample rate is against the RRC functionality concept and increases the UE and NW complexity.**

**Q5a: Do you agree with the problem identified in R2-2107573?**

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| --- | --- | --- |
| Company | Agree?(Yes or No) | Comments |
| MediaTek | Yes | It seems better to fix the assumption of sampling rate. |
| Nokia | No | The parameters are per FR so the current text is correct in our view.[Apple feedback] We propose the parameter is a fix value per FR, but referring to the current RAN4 spec doesnot achieve this purpose. |
| ZTE | See comments, more clarification is needed. | We are actually unclear how this “assumption” works. The current spec has following two notes:NOTE 2: The filtering is performed in the same domain as used for evaluation of reporting criteria or for measurement reporting, i.e., logarithmic filtering for logarithmic measurements.NOTE 3: The filter input rate is implementation dependent, to fulfil the performance requirements set in TS 38.133 [14]. For further details about the physical layer measurements, see TS 38.133 [14].In our understanding, UE follows the minimum measurement period defined in TS 38.133, and performs L3 filtering when each result is delivered from UE’s L1 to L3 (see Note3). UE can perform more frequent L1 sample, but the L1 sample rate is up to UE implementation.So for the “assumption” value, we are unclear whether the UE’s measurement behaviour will change when the “assumption” is updated to fixed value. Maybe more clarification is needed. [Apple feedback] According to the spec logic, the L3 filter is designed as follows:1. For configuration, L3 filtering configuration is based on the assumed sample rate which is aligned with UE and NW.
2. For the adaptation to UE specific L1 sample rate, UE adapts its Layer 3 filter implementation and scales the filter coefficient based on the UE’s actual L1 input rate.

And here the problem is in the configuration part.  |
| Apple | Yes | The sample rate assumption should be fix, and it can be fix per FR. But it’s not true if you look at the referred RAN4 spec. According to the referred L1 measurement period defined in section 9.2.5.2 of TS38.133 spec, the assumed sample rate “X” is not a fix value, but depends on many factors as follows:1. K\_p, SMTC and CSSF\_intra, and CSSF\_intra (Carrier-specific scaling factor) depends on inside or outside gap criteria (defined in section 9.1.5 of TS38.133 spec);
2. PCell, PSCell and SCell, and SCell activated/deactivated state.

Since the factors (CSSF\_intra, SCell state) can be dynamically changed due to L1 BWP switching or L2 SCell activation, the referred value will be changed dynamically.  |
| Ericsson | Yes |  |
| Huawei, HiSilicon | No | We assume that the network should be able to configure a proper k value, which does not necessarily change dynamically according to the X. |
| Samsung | No | From our understanding, UE applies the “intra-freq minimum requirement time interval” as a sample rate X ms, and it is already provided per FR with formulas in TS 38.133 (in Tables). If the clarification is needed, only need to do is restricting dynamic change of the sample rate “X” for the L3 filtering configuration by implementation. |
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The following proposals are provided in R2-2107573:

**Proposal 1: Confirm that UE and NW have the same assumption of the sample rate for the filterCoefficient K configuration.**

**Proposal 2: The dynamic change of the assumed sample rate “X” for the L3 filtering configuration and implementation is not supported.**

**Proposal 3: Specify that the assumed sample rate “X” for the filterCoefficient configuration as the fix value, i.e., 200ms for FR1, and 400ms for FR2.**

**Proposal 4: Agree the CR to capture the text proposal in section 2.3.**

**Q5b: Do you agree with the proposals in R2-2107573?**

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| Company | Agree?(Yes or No) | Comments |
| MediaTek | No strong view | The direction suggested by Apple is in general fine for us. We however don’t think this is an essential issue as it may only cause some performance lost if we don’t fix it. |
| ZTE |  | See our question to Q5a.  |
| Apple | Agree |  |
| Ericsson | See comments (need RAN4 confirmation) | What is proposed in the CR seems to be correct under the current context but it is not future proof (e.g., redcap). It is better to phrase the changes in a different way. Of course any change should be confirmed with RAN4. * adapt the filter such that the time characteristics of the filter are preserved at different input rates, observing that the *filterCoefficient k* assumes a sample rate equal to X ms; The value of X is equivalent to one smallest possible intra-frequency L1 measurement period as defined in TS 38.133 [14] assuming non-DRX operation, and depends on frequency range.

We can as well send an LS without mentioning any proposed changes from RAN2 and ask RAN4 for a wording suggestion |
| Samsung | No | We don’t think spec change is needed. |
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## Overheating assistance

[R2-2108571](file:///D%3A/Documents/3GPP/tsg_ran/WG2/RAN2/2108_R2_115-e/Docs/R2-2108571.zip) Clarification for overheating assistance information reporting Huawei, HiSilicon discussion Rel-15 NR\_newRAT-Core

For the first issue, it is proposed to discuss the following two alternative understandings:

**Proposal 1: If the UE sent the first overheating assistance information with preference on reduced parameter A and the NW already reduced the configuration for parameter A, UE sends the second overheating assistance information without including the preference on reduced parameter A, RAN2 to clarify how to understand UE’s preference:**

**Alt 1) UE does not have any preference on reducing configuration for parameter A and prefers to restore the configuration for parameter A**

**Alt 2) the previous preference on reduced parameter A is unchanged and UE prefers to maintain the configuration for parameter A**

**(The parameter A can be the number of maximum sCC, the number of maximum aggregated bandwidth, the number of maximum MIMO layers).**

NOTE: there is a mistake in the discussion part before Proposal 1 (i.e. Alt.1 is actually Alt.2), but anyway please just use Alt.1 and Alt.2 in Proposal 1.

**Q6a: For the first issue, which alternative above is your understanding, or you have other understanding (please indicate in the comment column)?**

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| --- | --- | --- |
| Company | Alternative | Comments |
| MediaTek | Alt 2 | Based on current SPEC, it seems that each parameter (although within the same IE) is set independently. So, Alt 2 looks more reasonable to us. We assume network will remember last UAI setting until receiving “no overheating ind” (i.e. no fields are included in IE *OverheatingAssistance*). |
| Nokia | Alt2 (in our understanding network does not need to remember previous indications…) | If the UE has sent overheating indicator, it is up to NW to rescue the UE. It doesn’t make sense to go back to the previous configuration that caused the overheating. If the NW has no smart mechanism to treat it, it will probably result in trial-error approach. Up to NW implementation how smart it is, but we see no need for specification clarification on this. |
| ZTE | See comments | We share the same view as Nokia, that network does not need to remember previous configuration or previous UAI.So when UE sends second UAI (with fields), it implies UE has preference to reduce other configurations. And the UE is satisfied with current configuration for parameter A. It is up to network whether to configure parameter A to a more aggressive value or not. But the UAI message itself does not represent that UE wants to change back to previous configuration of parameter A.So for the scenario mentioned in P1, our interpretation is the modification of Alt 1):**Alt 1) UE does not have any preference on reducing current configuration for parameter A ~~and prefers to restore the configuration for parameter A~~** |
| Ericsson | Alt 1) with modification | Alt1) with modification “UE does not have any preference on reducing configuration for parameter A ~~and prefers to restore the configuration for parameter A~~”. We cannot really infer whether the UE prefers the configuration to be restored or not, absence of a preference field can only indicate the UE has no preference, whether to restore the previous configuration or not would be up to the network. We think this is actually already clear from the current procedures – note that once the UE is including the overheating parameters, the procedures do not prevent the UE from including any preference i.e. there is no delta in the procedures for what the UE sends within the overheating report. |
| Samsung | Alt 1 | Unlike power saving, the IE OverheatingAssistance has no feature IEs, e.g. maxBW-Preference-r16.Thus, if UE reports no reduced parameter, it should mean ‘no preference’.E.g. we can see it in the current description:***reducedBW-FR1***Indicates the UE's preference on reduced configuration corresponding to the maximum aggregated bandwidth across all downlink carrier(s) and across all uplink carrier(s) of FR1, to address overheating or power saving. This field is allowed to be reported only when UE is configured with serving cell(s) operating on FR1. The aggregated bandwidth across all downlink carrier(s) of FR1 is the sum of bandwidth of active downlink BWP(s) across all activated downlink carrier(s) of FR1. The aggregated bandwidth across all uplink carrier(s) of FR1 is the sum of bandwidth of active uplink BWP(s) across all activated uplink carrier(s) of FR1. If the field is absent from the *MaxBW-Preference* IE or the *OverheatingAssistance* IE, it is interpreted as the UE having no preference on the maximum aggregated bandwidth of FR1. |
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For the second issue, it is proposed to discuss the following

**Proposal 2: RAN2 to clarify how to understand the “reduced configuration” for overheating:**

**Alt 1) the reduced value can range up to the active configuration before UE indicates overheating assistance information**

**Alt 2) the reduced value can** **only range up to the current active configuration**

**Q6b: For the second issue, which alternative above is your understanding, or you have other understanding (please indicate in the comment column)?**

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| --- | --- | --- |
| Company | Alternative | Comments |
| MediaTek | Alt 1 or up to UE capability | We see no limitation in current SPEC and think that UE can report any (MIMO) configurations which are under UE capability. It can give UE more flexibility. It seems no problem to report preference that is under current configuration (which means that no network action is really needed).  |
| Nokia | Network is not required to have any memory of past events so it would only look at the currently active configuration… | See answer to Q6a |
| ZTE | Alt 2) | See our answer to Q6a, we understand UE does not need to differentiate the configuration before or after UAI. UE only need to determine whether it has preference to the current configuration. So when UE sends UAI, the reduced value should be range up to current active configuration (i.e. Alt2 )  |
| Ericsson | If really needed, Alt 2) | In principle, for overheating the UE would not be bounded to any particular value since this was not previously discussed in this context. Hence, adding any different behavior than that may be non-backwards compatible. Within that said, if companies are willing to change this, we should follow the same approach as for power saving i.e. Alt 2), we do not need to repeat the discussion from power saving. |
| Huawei, HiSilicon | Alt 1 or up to UE capability | In our understanding, the active configuration before UE indicates overheating assistance information is the configuration based on UE capability. Agree with MTK that it gives UE more flexibility, especially if Alt 2) is preferred for Q6a, otherwise the UE cannot restore the configuration for one specific parameter (i.e. sCC, aggregated bandwidth, MIMO layers). Besides, we agree that we should not restrict the NW implementation, then the Alt 1 can indicate the clear preference from UE for the configuration to the NW. |
| Samsung | Alt 1 | Atl1 seems reasonable, rather than Alt 2. |
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# Conclusion

TBD

# References

[1]