3GPP TSG RAN WG2 Meeting #131 R2-250xxxx  
Bangalore, India, August 25th– 29th, 2025

**Agenda item: 8.5.1**

**Source: Ericsson**

**Title: Report of [POST130][107][NES] (Ericsson)**

**Document for: Discussion and Decision**

# 1 Introduction

This is a summary document on collection of comments to TS 38.331 CR during below running CR discussion:

* **[POST130][107][NES] (Ericsson)**

**Scope:** Update 38.331 running CR (also including this meeting’s agreements and latest other RAN WGs’ inputs) and remaining essential RRC open issues (including to continue discussion and make conclusion on P7, P12, P13, and P14 from R2-2504704).

**Intended outcome:** 38.331 running CR and remaining essential RRC open issues (including discussion summary on P7, P12, P13 and P14 from R2-2504704).

**Deadline:** Long email discussion.

DL for the email discussion is 8th of August. Please try to provide your input by end of 5th August to allow time to discussion/resolution.

# 2 Contact Points

Respondents to the email discussion are kindly asked to fill in the following table.

|  |  |  |
| --- | --- | --- |
| Company | Name | Email Address |
| OPPO | Qianxi Lu | qianxi.lu@oppo.com |
| Samsung | Anil Agiwal | anilag@samsung.com |
| vivo | Jianhui Li | jianhui.li@vivo.com |
| LGE | Han Cha | han.cha@lge.com |
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# 3 FFSs or ENs in running RRC CR

5.2.1

Editor’s note: FFS if anything is needed for OD-SIB1

**Q1: Is there a need to add text for OD-SIB1 in Section 5.2.1 or can the EN be removed?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| vivo | It can be removed. There is not any legacy OD-OSI related description either. |  |
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5.2.2.2.2

Editor’s note: FFS phrasing for paging adaptation pos only, that is those occasions that are not also configured for legacy.

**Q2: Which option or option modified is preferred?**

1. **Adress the aspect in 5.2.2.2.2 as in current running CR or slightly modify the text in that section.**
2. **Delete the additions from 5.2.2.2.2 and add in the following field descriptions instead:**

**pagingAdaptation-NS**

Number of paging occasions per paging frame for paging adaptation. The UE supporting paging adaptation ignores this field in RRC\_CONNECTED and uses *ns* instead when monitoring paging occasions.

**pagingAdaptationNAndPagingFrameOffset**

Used to derive the number of total paging frames in T (corresponding to parameter N in TS 38.304 [20]) and paging frame offset (corresponding to parameter PF\_offset in TS 38.304 [20]). A value of oneSixteenthT corresponds to T / 16, a value of oneEighthT corresponds to T / 8, and so on. The UE supporting paging adaptation ignores this field in RRC\_CONNECTED and uses *nAndPagingFrameOffset* instead when monitoring paging occasions..

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| **Company** | 1. **or b)** | **Rapporteur response** |
| OPPO | Option a) is preferred since ultimately the intention is to avoid reading new POs in RRC\_CONNECTED. |  |
| Samsung | In our view, changes in field description (as suggested in b)) are needed to clarify that UE does not apply these in RRC\_CONNECTED. This is a clean approach. |  |
| vivo | Option a) is clean and enough |  |
| LGE | Option a) is preferred. Option a) clearly specifies that paging adaptation enhancement is not applied to UEs in RRC connected state. |  |
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**5.2.2.3.3x**

Editor’s note:

FFS: if there is need to emphasize it is normal uplink

**Q3: Can the EN be removed or is further discussion needed?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| Samsung | Its ok to specify normal uplink and remove FFS.  Note that discussion on whether to support OD-SIB1 for SUL is pending. So we need a new EN for SUL case. |  |
| vivo | It depends on the conclusion on whether to support OD-SIB1 on SUL. If SUL is not supported, then we can keep the ‘on normal uplink’. We can keep the FFS for now. |  |
| LGE | Same view as vivo |  |
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**5.2.2.3.3x**

Editor’s note:

FFS reference for where are the details on how UE is obtaining SIB1, possibly RAN1 specification

**Q4: Add a reference to TS 38.213 Section 23 or remove the EN?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| OPPO | We support to add reference to R1 spec and then remove the EN. |  |
| Samsung | We support to add reference to R1 spec and then remove the EN. |  |
| vivo | Agree with above. |  |
| LGE | We support to add reference to R1 spec and then remove the EN. |  |
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***SIBxx***

Editor’s note:

FFS to group some parameters under subIEs like frequencyInfoUL

**Q5: Please comment if current structure is fine or suggest a grouping?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| vivo | It’s only a matter of preference. The current structure is fine. |  |
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***SIBxx***

Editor’s note:

FFS to separate IE OD-SIB1 as own IE, for review purposes it is here now.

**Q6: Keep IE OD-SIB1 under SIBxx or not?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| vivo | We can keep it under SIBxx for R19. If there is any further NES evolution in NR, we can make it independent in future release. |  |
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***SIBxx***

Editor’s note:

FFS: value for maxNrofODSIB1, maxPCI, od-sib1-windowStartOffset

**Q7: Suggest values for these parameters or indicate if another WG needs to be liaised?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| OPPO | At least for od-sib1-windowStartOffset, we assume R1 can decide on its value. |  |
| vivo | RAN1 should decide od-sib1-windowStartOffset. The rest can be suggested by the RRC rapporteur if not decided by RAN1, e.g. maxNrofODSIB1/ maxPCI is the closest number of power(2) to (maxSizeOfSIB(2976)/maxSizeOfOdSIB1config(?))...... maybe 8? |  |
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***SIBxx***

Editor’s note:

FFS: optionality of the parameters

**Q8: Suggest optionality values for these parameters or indicate if another WG needs to be liaised, or confirm current?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
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***IE CellGroupConfig***

Editor’s note:

FFS value for maxNrofOD-SSB

**Q9: Suggest value for this parameter or indicate if another WG needs to be liaised?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| LGE | RAN1 made an agreement for this issue as follows:  **Agreement**  For a cell supporting on-demand SSB SCell operation, for configuring *od-ssb-nrofBurst* of which the value range is {N2 integer values},   * N2= 8   + Note: This is updated from the previous RAN1 agreement. * The following values for *od-ssb-nrofBurst* are taken as the starting point and to be confirmed in RAN1#122   + For FR1, the value range of *od-ssb-nrofBurst* is {5, 10, 15, 20, 25, 30, 40, 50}.   + For FR2, the value range of *od-ssb-nrofBurst* is {25, 30, 40, 50, 75, 100, 150, 200}.   We suggest to wait RAN1 confirmation for the value range. |  |
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***DownlinkConfigCommonSIB***

Editor’s note:

FFS: The values for *pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO* firstPDCCH-MonitoringOccasionOfPO for paging adaptations.

**Q10: Please see Q14a and Q14b in Section4 for the FFS.**

***UE-RadioPagingInfo***

Editor’s note: FFS details

**Q11: Preference is to move this into capability email discussion, please respond if you agree/disagree?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| OPPO | Agree |  |
| Samsung | Agree |  |
| LGE | Agree |  |
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***si-BroadcastStatus***

Indicates if the SI message is being broadcasted or not. Change of *si-BroadcastStat*us should not result in system information change notifications in Short Message transmitted with P-RNTI over DCI (see clause 6.5). The value of the indication is valid until the end of the BCCH modification period when set to *broadcasting.* When *SIB19* is scheduled in an NTN cell, the *si-BroadcastStatus* for the mapped *SIB19* is set to *broadcasting*. When *SIB22* is scheduled in an ATG cell, the *si-broadcastStatus* for the mapped *SIB22* is set to *broadcasting*. FFS: how to capture that a CONNECTED MODE UE supporting OD-SIB1 who is in a cell that does not broadcast SIB1, understands that the stored SIB1 is the latest SIB1. E.g. “The UE supporting OD-SIB1 in RRC\_CONNECTED considers the stored SIB1 as the latest SIB1.”

**Q12: Can “The UE supporting OD-SIB1 in RRC\_CONNECTED considers the stored SIB1 as the latest SIB1” be added to the field description of *si-BroadcastStatus* to address the FFS?**

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| OPPO | OK for us. |  |
| Samsung | ok |  |
| vivo | We don’t think it’s needed in the Field description as we already have the normative text for it. It’s redundant. |  |
| LGE | It is unclear whether the ‘latest SIB1’ means ‘SIB1 including latest ***si-BroadcastStatus***. A clearer way to express it might be:  “The UE supporting OD-SIB1 in RRC\_CONNECTED considers the ***si-BroadcastStatus*** in the stored SIB1 is up-to-date”  In addition, such consideration should not be made when the UE is connected to a legacy cell with always-on SIB1. An additional condition, such as ‘if SIB1 is being transmitted in on-demand in this cell’, is needed. |  |
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# 5 RRC CR

Further comments on the RRC CR.

Please review carefully the field descriptions of the L1 parameters which are in many cases based on the excel input as a starting point.

For example, the *OD-SSB-Config* field descriptions contain terminology like case#1, case#2 and always-on SSB which should be rewritten.

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| **Company** | **Detailed comments RRC CR** | **Rapporteur response** |
| OPPO001 | Within OD-SIB1-Config  ***carrierFreq***  Identifies the carrier frequency for which this configuration is valid.  [OPPO] Do I understand it correctly that it should be mapped to the R1 parameter list of “ Indicate the absolute radio frequency channel number (ARFCN) for SSB of the cell the UL WUS configuration would apply”, where the yellow part helps to clarify the targeted frequency, since ‘carrier-frequency’ is unclear. |  |
| OPPO002 | sib1-RequestResources-r19 SEQUENCE (SIZE (1..maxSIB1-Message)) OF SIB1-RequestResources-r19,  [OPPO] it comes from SI-RequestConfig,  si-RequestResources SEQUENCE (SIZE (1..maxSI-Message)) OF SI-RequestResources  But there is a single target for **SIB1**, so the sequence is not needed in our understanding.  [Samsung]: Agree with OPPO. There is no need for list. Sequence should be removed.  [vivo] Agree with OPPO |  |
| OPPO003 | RACH-ConfigSIB1-r19 ::= SEQUENCE {  prach-ConfigurationIndex-r19 INTEGER (0..255),  msg1-FDM-r19 ENUMERATED {one, two, four, eight},  msg1-FrequencyStart-r19 INTEGER (0..maxNrofPhysicalResourceBlocks-1),  zeroCorrelationZoneConfig-r19 INTEGER(0..15),  preambleReceivedTargetPower-r19 INTEGER (-202..-60),  preambleTransMax-r19 ENUMERATED {n3, n4, n5, n6, n7, n8, n10, n20, n50, n100, n200},  powerRampingStep-r19 ENUMERATED {dB0, dB2, dB4, dB6},  ra-ResponseWindow-r19 ENUMERATED {sl1, sl2, sl4, sl8, sl10, sl20, sl40, sl80}  }  [OPPO] it seems we can directly reuse RACH-ConfigGeneric rather than redefining a new IE. |  |
| OPPO004 | SIB1-RequestResources-r19 ::= SEQUENCE {  sib1-ra-PreambleStartIndex-r19 INTEGER (0..63),  sib1-ra-AssociationPeriodIndex-r19 INTEGER (0..15) OPTIONAL, -- Need R  sib1-ra-ssb-OccasionMaskIndex-r19 INTEGER (0..15) OPTIONAL -- Need R  }  [OPPO] it seems we can directly reuse SI-RequestResouces rather than redefining a new IE.  [Samsung]: Ok to use separate IE as purpose is different. |  |
| OPPO005 | firstPDCCH-MonitoringOccasionOfPO-r19 CHOICE {  sCS15KHZoneT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneT-SCS15KHZhalfT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneT-SCS30KHZhalfT-SCS15KHZquarterT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneT-SCS60KHZhalfT-SCS30KHZquarterT-SCS15KHZoneEighthT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZhalfT-SCS60KHZquarterT-SCS30KHZoneEighthT-SCS15KHZoneSixteenthT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneT-SCS120KHZquarterT-SCS60KHZoneEighthT-SCS30KHZoneSixteenthT-SCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZhalfT-SCS120KHZoneEighthT-SCS60KHZoneSixteenthT-SCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZquarterT-SCS120KHZoneSixteenthT-SCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneEighthT-sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneSixteenthT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL -- Need R  ]]    }  [[  pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19 CHOICE {  sCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL, -- Cond OtherBWP    pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19 CHOICE {  sCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL -- Cond InitialBWP-Paging  ]]    }  [OPPO] Compared with the implementation in PDCCH-ConfigCommon, it seems the yellow part is the delta part,  Question-1: Do we really need the implementation in PDCCH-ConfigCommon for PO, considering the following conclusion and the condition of “Cond OtherBWP”?   * Paging clustering/bundling/adaptation is not supported/applied in RRC\_CONNECTED.   [Samsung]: Its needed for BWP other than InitialDownlinkBWP (e.g.  *initialDownlinkBWP-RedCap)*  [OPPO] Thanks for the point from Samsung. After some offline, we reached the consensus that for **non-Redcap** case, the PO location configuration @ *PDCCH-ConfigCommon* is \***not**\* needed. For Redcap, I agree that spec-wise, it is possible to configure PO location @ *PDCCH-ConfigCommon*. Yet we are not fully convinced for keeping the PO-location within  *PDCCH-ConfigCommon* considering the following two points  1) We are not sure whether we can easily extend the applicable scenario for NES to (e)Redcap, which should be confirmed by R2 first. E.g., the capability for supporting PO bundling within *initialDownlinkBWP-RedCap* may not be covered by legacy (e)Redcap capability or the new NES capability for non-redcap UE  2) We are not sure whether the definition of otherBWP intentionally does not cover *initialDownlinkBWP-RedCap* or it is an overlook, considering that it is clear that for the case where it does **not** include CDSSB and CORESET#0, it is **not** supposed to configure paging search space. I.e., the case to discuss here is only when the *initialDownlinkBWP-RedCap* contains CDSSB and CORESET#0.  We are still checking this issue, and may update our view later.  Question-2: Just wonder whether we want to remove the yellow part.  [Samsung]: This should not be removed as other values of N such T, T/2, T/4, T/8 and T/16 can be configured for paging adaptation.  [OPPO] we agree the setting should be aligned with pagingAdaptationNAndPagingFrameOffset-r19, anyway, if we would like to avoid value other than T/32, the corresponding value in pagingAdaptationNAndPagingFrameOffset-r19 has to be removed as well. Or we keep the values other than T/32, and then changes suggested in Samsung003 should be applied. |  |
| OPPO006 | [OPPO] In OD-SSB-Config, there are multiple fields  od-ssb-absoluteFrequency  od-ssb-PositionsInBurst  od-ssbSubcarrierSpacing  od-ssb-physCellId  od-ss-PBCH-BlockPower  They are all marked as  *For Case #2 (i.e., Always-on SSB is periodically transmitted on the cell), if absent, od-ssb-PositionsInBurst is the same as ssb-PositionsInBurst provided in ServingCellConfigCommon.*  Now this restriction however is reflected in different ways for different fields. It is suggested using a unified solution.  ***od-ssb-absoluteFrequency***  Indicates the frequency of the OD-SSB when the frequency is different from *absoluteFrequencySSB* configured in IE *FrequencyInfoDL* for this serving cell. Additional restrictions as described in subclause 4.4. of TS38.213.  ***od-ssb-PositionsInBurst***  Indicates the time domain positions of the transmitted SS-blocks for OD-SSB in a half frame with SS/PBCH blocks as defined in TS 38.213 [13], clause 4.1. For Case #2 (i.e., Always-on SSB is periodically transmitted on the cell), if absent, *od-ssb-PositionsInBurst* is the same as *ssb-PositionsInBurst* provided in *ServingCellConfigCommon*.   |  |  | | --- | --- | | *ODssbOnly* | The field is optionally present, Need R, for serving cell that does not have SSB. It is absent otherwise. | |  |
| OPPO007 | [OPPO] For OD-SSB-Config, is the following parameter missing?   |  |  |  |  | | --- | --- | --- | --- | | od-ssb-physCellId | New |  | Indicate physical cell identity of a cell in the cell list, for Case #1, i.e., no always-on SSB on this serving cell | |  |
| OPPO008 | ***od-smtc***  Primary measurement timing configuration (see clause 5.5.2.10) to be used instead of *smtc1* configured in *servingCellMO* in IE *servingCellConfig* when this OD-SSB is activated.  [OPPO] Compared with 130 conclusion, seems the following part is missing   * (modified) The UE applies the OD-SSB specific SMTC when the OD-SSB is activated and SCell is activated. |  |
| OPPO009 | ***servingCellMO***  *measObjectId* of the *MeasObjectNR* in *MeasConfig* which is associated to the serving cell when this OD-SSB is activated activated instead of *servingCellMO* in IE *ServingCellConfig.*  [OPPO] typo |  |
| OPPO010 | ***valueKforAssociationPatternPeriodsForPRACH***  The value of Kmask used for mapping of mask index to association periods per Kmask association pattern periods (See TS 38.213, subclause 8.1) used to identify the subset of the additional PRACH resources applicable at least for adaptation for DCI 1\_0 with P-RNTI. Absence of this field indicates the value *1*.  [OPPO] Based on our R1, this is also applicable to C-RNTI case. |  |
| Samsung 001 | 5.2.2.3.3x  trigger the lower layer to initiate the Random Access procedure on normal uplink in accordance with TS 38.321 [3] using the PRACH preamble(s) and PRACH resource(s) in *sib1-RequestConfig* included in stored valid version of *od-SIB1-Config* for this cell;  [Samsung] We do not have concept of ‘ stored valid version’ for an IE. Stored valid version is used for SIB.  Text can be updated as follows:  trigger the lower layer to initiate the Random Access procedure on normal uplink in accordance with TS 38.321 [3] using the PRACH preamble(s) and PRACH resource(s) in *sib1-RequestConfig* included in ~~stored valid version of~~ *od-SIB1-Config* for this cell in stored valid version of SIBxx; |  |
| Samsung 002 | 5.2.2.4.2x Actions upon reception of *SIBxx* Upon receiving SIBxx, the UE shall:   1. if the UE has reselected to a cell providing OD-SIB1, the UE stores the configuration for SIB1 request for this cell and considers it valid while camping in this cell:   This text is not correct. It seems to suggest that UE continues to use the SIB1 request of Cell X acquired from Cell A after the cell reselection. What we have previously agreed is that SIB1 request of Cell X acquired from Cell A is used only during reselection to Cell X. After reselection UE needs to use SIB1 request configuration acquired from Cell X.  [OPPO] Regarding “ After reselection UE needs to use SIB1 request configuration acquired from Cell X”, are we on the same page that if the stored SIBxx is still valid (i.e., based on area ID and valueTag), there is no problem to continue using the stored SIBx, which is business as usual?  In our understanding correct text is as follows:  Upon receiving SIBxx from a cell, the UE shall:   1. store the SIBxx; 2. apply the SIB1 request configuration of another cell in this stored SIBxx for acquiring OD-SIB during reselection to that cell; 3. apply the SIB1 request configuration of this cell (i.e. cell from which SIBxx is acquired) in this stored SIBxx for acquiring OD-SIB1 of this cell |  |
| Samsung 003 | pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19 CHOICE {  sCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL, -- Cond OtherBWP  pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19 CHOICE {  sCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL -- Cond InitialBWP-Paging  ]]  Values for T, T/2, T/4, T/8 and T16 are missing. These can also be configured for paging adaptation and network should be able to configure starting PDCCH monitoring occasion number of POs in this case for paging adaptation. |  |
| vivo001 | ***interFreqODSIB1-ExcludedCellList***  List of exclude-listed inter-frequency neighbouring cells for a UE supporting OD-SIB1 as specified in TS 38.304 [20]. If *intraFreqODSIB1-ExcludedCellList* is present, the UE ignores *intraFreqExcludedCellList* (without suffix)  [comment] Typo. intra -> inter |  |
| vivo002 | 5.2.2.3.1 Acquisition of *MIB* and *SIB1*  2> else if *SIB1* acquisition is required for the UE and *ssb-SubcarrierOffset* indicates that *SIB1* is not scheduled in the cell:  3> if the UE has a stored valid version of *od-SIB1-Config* for this cell:  4> if the UE is in RRC\_IDLE or in RRC\_INACTIVE; or  4> if the UE is in RRC\_CONNECTED while T311 is running:  5> perform the actions as specified in clause 5.2.2.3.3x;  3> else:  4> perform the actions as specified in clause 5.2.2.5.  NOTE 1: The UE in RRC\_CONNECTED is only required to acquire broadcasted *SIB1* if the UE can acquire it without disrupting unicast or MBS multicast data reception, i.e., the broadcast and unicast/MBS multicast beams are quasi co-located. The UE in RRC\_INACTIVE state while T319a is running, is only required to acquire broadcasted *SIB1* and *MIB* if the UE can acquire them without disrupting unicast data reception, i.e. the broadcast and unicast beams are quasi co-located.  NOTE 2: UE in RRC\_INACTIVE that does not support *inactiveStateNTN-r17* enters RRC\_IDLE upon cell reselection between TN cell and NTN cell, and initiates the NAS signalling connection recovery (see TS 24.501 [23]).  NOTE x: It is up to UE’s implementation to check if SIB1 is currently being broadcasted for that cell before triggering OD-SIB1 request procedure of that cell.  [comment] During last meeting, at offline session [AT130][104][NES] (Ericsson), P6 in R2-2504037 about the UE behavior after receiving SI change notifcation was discussed. Rapporteur responded that a condition was added to address the issue:  5> if SIB1 is not broadcasted  6> perform the actions as specified in clause 5.2.2.3.3x;  And therefore, at the Comeback session, it was first agreed that:   |  | | --- | | Keep RRC CR as it is for the short message and UE behaviour. |   Then, it is commented that the high-lighted part mandates the UEs to check whether SIB1 is broadcasting before requesting OD-SIB1 (not the case upon receiving SI change notification), which is against the RAN1 agreement that it is up to the UE’s implementation to check if SIB1 is broadcasting. Thus, the high-lighted part was removed, and instead the NOTE x is added.  However, RAN2#126 agrees that:   |  | | --- | | Once the NES UE camps on the NES cell, if the UE receives SIB change notification, the UE is expected to receive SIB1 from NES cell. |   Therefore, we encourage RAN2 to review the agreement again ‘Keep RRC CR as it is for the short message and UE behaviour.’, whether the NOTE x can cover the above RAN2#126 agreement. The discussion is comprised of the following questions:  Q1. For RAN2#126 agreement ‘ Once the NES UE camps on the NES cell, if the UE receives SIB change notification, the UE is expected to receive SIB1 from NES cell.’, does it mean that the UE always assumes the NES cell will turn from transmitting NCD-SSB to transmitting CD-SSB for SIB1 update?  Q2. If the answer is ‘NO’ for Q1, i.e. the NES cell can remain transmitting NCD-SSB and at the same time transmit the updated SIB1, how does the UE camping on the NES cell to receive the updated SIB1? Shall we rely on the NOTE x to say it’s up to UE’s implementation to handle this?  We think for Q2, if the CORESET#0 in the stored OD-SIB1 request configuration has changed, the UE camping on the NES cell will have no way by implementation to receive the updated SIB1. As a result, all the UEs camping on the NES cell will trigger OD-SIB1 request since SIB1 cannot be received, which is not correct. Therefore, we propose Q1/Q2 to be listed as open issues for further discussion. |  |
| vivo003 | **5.2.2.3.5 Acquisition of SIB(s) or posSIB(s) in RRC\_CONNECTED**  1> else if the UE is in RRC\_CONNECTED with an active BWP configured with common search space with the field *searchSpaceOtherSystemInformation* and the UE has not stored a valid version of a SIB or posSIB, in accordance with clause 5.2.2.2.1, of one or several required SIB(s) or posSIB(s) in accordance with clause 5.2.2.1:  2> for the SI message(s) that, according to the *si-SchedulingInfo* in the stored SIB1, contain at least one required SIB and for which *si-BroadcastStatus* is set to *broadcasting*:  3> acquire the SI message(s) as defined in clause 5.2.2.3.2;  <Blahblah....>  2> a UE supporting OD-SIB1 considers the *si-BroadcastStatus* in the stored SIB1 as the latest one.  **[comment] We think the highlighted part is not correct, although it is the agreement. The UE applies this only when the cell is transmitting NCD-SSB. If the cell is transmitting CD-SSB, the UE should check the broadcast status according to the always on periodically transmitted SIB1. Therefore, we propose to revise as:**  1> else if the UE is in RRC\_CONNECTED with an active BWP configured with common search space with the field *searchSpaceOtherSystemInformation* and the UE has not stored a valid version of a SIB or posSIB, in accordance with clause 5.2.2.2.1, of one or several required SIB(s) or posSIB(s) in accordance with clause 5.2.2.1:  2> a UE supporting OD-SIB1 considers the si-BroadcastStatus in the stored SIB1 as the latest one, if *ssb-SubcarrierOffset* indicates that *SIB1* is not scheduled in the cell  2> for the SI message(s) that, according to the *si-SchedulingInfo* in the stored SIB1, contain at least one required SIB and for which *si-BroadcastStatus* is set to *broadcasting*:  3> acquire the SI message(s) as defined in clause 5.2.2.3.2;  <Blahblah....>  ~~2> a UE supporting OD-SIB1 considers the~~ *~~si-BroadcastStatus~~* ~~in the stored SIB1 as the latest one.~~ |  |
| vivo004 | ***physCellIdList***  Identifies the physical cell Id(s) for which this configuration is valid.  **[Comment] Similar to what Samsung001 points out, ‘valid’ is suggested to be replaced by ‘applied’.** |  |
| vivo005 | – *RandomAccessAdaptationConfig* The IE *RandomAccess AdaptationConfig* is used to configure adaptive random access occasions.  **[comment] Typo. There should be no space between ‘ *RandomAccess’ and’ AdaptationConfig’*** |  |
| OPPO011 | ***nterFreqCarrierFreqList***  List of neighbouring carrier frequencies and frequency specific cell re-selection information. If *interFreqCarrierFreqList-v1610, interFreqCarrierFreqList-v1700, interFreqCarrierFreqList-v1720*, *interFreqCarrierFreqList-v1730,* *interFreqCarrierFreqList-v1760* or *interFreqCarrierFreqInfo-v1800* are present, they shall contain the same number of entries, listed in the same order as in *interFreqCarrierFreqList* (without suffix).  [OPPO] Missing the newly introduced V19xy field. |  |
| LGE001 | 1> if the UE is in RRC\_IDLE or in RRC\_INACTIVE; or  1> if the UE is in RRC\_CONNECTED while T311 is running:  2> if *ssb-SubcarrierOffset* indicates *SIB1* is transmitted in the cell (TS 38.213 [13]) and if *SIB1* acquisition is required for the UE:  3> acquire the *SIB1,* which is scheduled as specified in TS 38.213 [13];  3> if the UE is unable to acquire the *SIB1*:  4> perform the actions as specified in clause 5.2.2.5;  3> else:  4> upon acquiring *SIB1*, perform the actions specified in clause 5.2.2.4.2.  2> else if *SIB1* acquisition is required for the UE and *ssb-SubcarrierOffset* indicates that *SIB1* is not scheduled in the cell:  3> if the UE has a stored valid version of *od-SIB1-Config* for this cell:  ~~4> if the UE is in RRC\_IDLE or in RRC\_INACTIVE; or~~  ~~4> if the UE is in RRC\_CONNECTED while T311 is running:~~  5> perform the actions as specified in clause 5.2.2.3.3x;  3> else:  4> perform the actions as specified in clause 5.2.2.5.  [LGE] The same conditions are repeatedly specified. |  |
| LGE002 | For the field description of ***od-ssb-ActivationStatus***, we suggest to clarify that OD-SSB pattern activated upon configuration shall be one. RAN2 agreed that there are the only one OD-SSB activated for a given SCell as follows.  **7. L3 RRM framework: Case 2b (AO-SSB and OD-SSB in the different frequency)**   * RAN2 understands multiple OD-SSBs with the different frequencies for a given SCell is not supported.   According to the current signalling structure, it seems that ***od-ssb-ActivationStatus*** can be signalled into the multiple OD-SSB configurations. Therefore, we suggest two options clarifying the intended behaviour by the agreement.  *Option-1: Add a note into the field* ***od-ssb-ActivationStatus.***  ***od-ssb-ActivationStatus***  Indicates the activation status of this OD-SSB pattern upon configuration. If this field is present, the other OD-SSB configuration does not have this field.  *Option-2: Move* ***od-ssb-ActivationStatus*** *out of the OD-SSB configuration.*  Option-2 suggests that put the field into *SCellConfig* but not into the OD-SSB configuration. The field indicates the value of the OD-SSB configuration index to be activated upon configuration. Note that ***od-ssb-ActivationStatus***is absent if there is no OD-SSB activated on the SCell upon configuration.  SCellConfig ::= SEQUENCE {  sCellIndex SCellIndex,  [omitted]  ]],  [[  od-SSB-ConfigToAddModList-r19 SEQUENCE (SIZE (1.. maxNrofOD-SSB-r19)) OF OD-SSB-Config-r19 OPTIONAL, -- Need N  od-SSB-ConfigToReleaseList-r19 SEQUENCE (SIZE (1.. maxNrofOD-SSB-r19)) OF OD-SSB-ConfigId-r19 OPTIONAL, -- Need N  od-ssb-ActivationStatus INTEGER (0..maxNrofOD-SSB-r19-1) OPTIONAL, -- Need N  ]]    } |  |
| LGE003 | *DownlinkConfigCommonSIB* The IE *DownlinkConfigCommonSIB* provides common downlink parameters of a cell.  *DownlinkConfigCommonSIB* information element  firstPDCCH-MonitoringOccasionOfPO-r19 CHOICE {  sCS15KHZoneT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneT-SCS15KHZhalfT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneT-SCS30KHZhalfT-SCS15KHZquarterT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneT-SCS60KHZhalfT-SCS30KHZquarterT-SCS15KHZoneEighthT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZhalfT-SCS60KHZquarterT-SCS30KHZoneEighthT-SCS15KHZoneSixteenthT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneT-SCS120KHZquarterT-SCS60KHZoneEighthT-SCS30KHZoneSixteenthT-SCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZhalfT-SCS120KHZoneEighthT-SCS60KHZoneSixteenthT-SCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZquarterT-SCS120KHZoneSixteenthT-SCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneEighthT-sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneSixteenthT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL -- Need R  ]]  *PDCCH-ConfigCommon*  The IE *PDCCH-ConfigCommon* is used to configure cell specific PDCCH parameters provided in SIB as well as in dedicated signalling.  ***PDCCH-ConfigCommon* information element**  pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19 CHOICE {  sCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPO-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL, -- Cond OtherBWP  pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19 CHOICE {  sCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS),  sCS480KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r19)) OF INTEGER (0..FFS)  } OPTIONAL -- Cond InitialBWP-Paging  ]]  }  [LGE] Unify the name of the firstPDCCH-MonitoringOccasionOfPO-r19 of *DownlinkConfigCommonSIB* and pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19 of PDCCH-ConfigCommon.  sCS480KHZoneThirtySecondT is missing in the firstPDCCH-MonitoringOccasionOfPO-r19 of *DownlinkConfigCommonSIB* information element.  Same comment with Samsung 003. Values for T, T/2, T/4, T/8 and T16 are missing in the pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19 and in the pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19. |  |
| LGE004 | maxPO-perPF-r19 INTEGER ::= 8 -- Max number of paging occasions per paging frame for paging adaptation  maxPEI-perPF-r19 INTEGER ::= 8 -- Max number of PEI occasions per paging frame for paging adaptation  [LGE] During the offline discussion in the RAN2#130 meetings, R2-2504704, proposal 10 is not supported.   1. The maximum number of PEI occasion per paging frame is extended to 8.   => The maximum number of PEI occasion per paging frame is not extended to 8.  However, in the online session, proposal 10 is reflected as supported.  Since proposal 10 was not discussed in the online session, it is recommended to double-check whether Proposal 10 is supported or not.  If the proposal 10 is not supported, there is no need to introduce maxPEI-perPF-r19.  Also, the signalling structure of pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19 can be changed to the size of maxPEI-perPF-r17.  pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19 CHOICE {  sCS15KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r17)) OF INTEGER (0..FFS),  sCS30KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r17)) OF INTEGER (0..FFS),  sCS60KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r17)) OF INTEGER (0..FFS),  sCS120KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r17)) OF INTEGER (0..FFS),  sCS480KHZoneThirtySecondT SEQUENCE (SIZE (1..maxPEI-perPF-r17)) OF INTEGER (0..FFS)  } OPTIONAL -- Cond InitialBWP-Paging  ]]  } |  |
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# 4 Remaining open issues from R2-2504704 P7, P12, P13, P14

Q13a. Please comment on whether the maximum offset value for *pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19* field parameter is extended to 32 radio frames:

1. at symbol level
2. at slot level
3. by restricting the maximum value range of *pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19* field parameter for different SCS corresponding to *pagingAdaptationNAndPagingFrameOffset-r19* (i.e. N)
4. by restricting the configuration to evenly distributed POs, i.e., the first PO position among 8 POs and the interval between them.
5. other

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| OPPO | iii seems to be the option without losing flexibility, considering paging adaptation was used to restrict PO location to be within smaller time range. |  |
| Samsung | First, FirstPDCCH-MonitoringOccasionOfPO is not really an offset. It also does not indicate the starting symbol number. Its basically PDCCH monitoring occasion number where physical location of PDCCH monitoring occasion for paging is configured by paging search space and these are monitoring occasions are sequentially numbered. So i), ii) and iv) does not seems to work with legacy approach.  Prefer no optimization at this stage as FirstPDCCH-MonitoringOccasionOfPO is anyways optional. |  |
| vivo | iii |  |
| LGE | As the FirstPDCCH-MonitoringOccasionOfPO can be configured optionally, the network can simply choose not to configure it when signaling overhead is a concern or when the configuration is unnecessary. Prefer to configure pagingAdaptationFirstPDCCH-MonitoringOccasionOfPO-r19 as in the legacy firstPDCCH-MonitoringOccasionOfPO.  Prefer option i, symbol level offset. |  |
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Q13b: Please comment on which values should be adopted, i.e., x

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
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Q14a. Please comment on whether the maximum offset value for *pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19* field parameter is extended to 32 radio frames:

1. at symbol level
2. at slot level
3. by restricting the maximum value range of Rel-19 *pagingAdaptationFirstPDCCH-MonitoringOccasionOfPEI-O-r19* field parameter for different SCS corresponding to *pagingAdaptationNAndPagingFrameOffset-r19* (i.e. N)
4. by restricting the configuration to evenly distributed POs, i.e., the first PO position among 8 POs and the interval between them.
5. other

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| OPPO | iii seems to be the option without losing flexibility, considering paging adaptation was used to restrict PO location to be within smaller time range. |  |
| vivo | iii |  |
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Q14b: Please comment on which values should be adopted, i.e., x

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
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Q15a: Please comment on whether the following parameters should be introduced for Rel-19 PEI configuration:

1. po-NumPerPEI-r19
2. payloadSizeDCI-2-7-r19
3. pei-FrameOffset-r19
4. subgroupsNumPerPO-r19
5. subgroupsNumForUEID-r19

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
| OPPO | We do not see clearer benefit of doing so, since  1) for i, extending the value would lead to smaller number of sub-group for each PO, and will increase false alarm rate and thus hurt the original intention of introducing PEI, i.e., for UE power saving  2) for ii, iv, v, it is restricted by R1 design, so we should not touch it  3) for iii, it is not clear what is the reason for extending the value range |  |
| Samsung | Same view as OPPO |  |
| vivo | Same view as OPPO |  |
| LGE | Same view with OPPO. |  |
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Q15b: Please comment on whether the same value ranges as for legacy PEI should be used for the following parameters (if agreed to be introduced per Q15a above) for Rel-19 PEI configuration:

1. po-NumPerPEI-r19
2. payloadSizeDCI-2-7-r19
3. pei-FrameOffset-r19
4. subgroupsNumPerPO-r19
5. subgroupsNumForUEID-r19

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| **Company** | **Detailed comments on FFSs** | **Rapporteur response** |
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# 6 Conclusion