**3GPP TSG-RAN WG4 Meeting # 98-e-Bis R4-200XXXX**

**Electronic Meeting, Jan. 25 – Feb. 5, 2021**

**Agenda item:** 4.7

**Source:** Moderator (Huawei, HiSilicon)

**Title:** Email discussion summary for [98e Bis][201] NR\_NewRAT\_RRM\_Core

**Document for:** Information

# Introduction

In this email thread for Rel-15 NR RRM core requirement, we will treat the following topics:

* RRM measurements:
  + CSSF calculation for inter-RAT measurement in EN-DC,
  + MO merging,
  + SMTC1 and SMTC2 differentiation,
  + deactivated SCell measurement requirement for intra-frequency measurement with MG
* SCell activation:
  + Maintenance for SCell activation requirements
  + SSB-less SCell activation
* Beam management: correction of filter for beam failure detection
* BWP switching: Applicability of RRC based BWP switch delay requirement in Rel-15
* Active TCI state switching
* Interruption due to measurement on SCC
* Maintenance for intra-frequency E-CID
* Maintenance for idle mode requirements

# Topic #1: RRM measurement

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2100172 | Apple | **Further discussion on CSSF for R15 EN-DC**  Proposal 1: When inter-RAT MO is not on any NR serving CC, inter-RAT measurement is always performed within MG.  Proposal 2: for R15 we propose an implementation #2 for EN-DC, that is,  When inter-RAT MO is on a NR serving CC, inter-RAT measurements are performed in the same way as NR intra-frequency measurement, i.e., it can be within or outside MG depending on whether SSB is contained in the active BWP, and whether SMTC is fully overlapping with MG.  Proposal 3: RAN4 further discuss in R16 that whether the implementation 2 could be used for inter-RAT measurement on NR non-serving CC.  Proposal 4: adopt Option 2a: count the NR inter-RAT MO on NR serving CC configured by LTE MN that can be measured without MG in CSSF outside MG and remove the inter-RAT MOs counted in CSSF outside MG from CSSF within MG. One note could be added into R15 spec that, “longer delays for cell identification and measurement periods derived based on CSSFwithin\_gap,i can be expected, if the UE is configured with inter-RAT MO on NR serving CC by E-UTRAN PCell in EN-DC mode”.  Proposal 5: for calculation of CSSF outside MG, adopt Option 1a:  to consider merging of intra-frequency MO configured by NR SN and inter-RAT MO configured by LTE MN on the same serving frequency that are measured without MG, based on MO merging conditions in clause 9.1.3.2 of 38.133.  Proposal 6: for calculation of CSSF within MG, adopt Option 1a:  to consider merging of two MOs configured by LTE MN and NR SN on the same frequency that are measured within MG, based on MO merging conditions in clause 9.1.3.2 of 38.133. |
| R4-2100173 | Apple | **CR on CSSF for EN-DC R15 (38.133 Section 9.1.5.1, 9.1.5.2)**  The CSSF requirement has been updated for EN-DC to consider the MOs configured from both LTE MN and NR SN in EN-DC.  (Tdoc numbers of Rel-16, Rel-17 CRs are missing) |
| R4-2102536 | Ericsson | **On correction to inter-RAT CSSF**  Observation 1: Double counting in both CSSFwithin\_gap and CSS\_outside\_gap is not acceptable.  Observation 2: From the Rel-15 reporting criteria requirements, it is clear that regardless of the configuring node the measurements on serving NR carriers are NR intra-frequency measurements, not inter-RAT measurements.  Proposal 1: RAN4 should initially discuss the technical solution for CSSF scaling of interRAT measurement objects configured by the LTE PCell.  Observation 3: The discussion in [1] does not consider (intra-frequency) measurements on NR serving carriers, which are configured by LTE PCell and require measurement gaps.  Proposal 2: Reject Option 1.  Proposal 3: Reject Option 2b.  Proposal 4 : RAN4 should agree Option 2a (i.e., count in CSSF outside MG the NR inter-RAT MO on NR serving CC configured by LTE MN that can be measured without MG and remove from CSSF within MG the inter-RAT MOs counted in CSSF outside MG.  o NOTE: This option applies in the case that it is possible to make non-gap based measurements, i.e. SSB is contained within the active BWP and the SMTC is not fully overlapping with the active BWP.  Proposal 5: Implementations which are certified prior to RAN#95 are allowed to include inter-RAT MOs counted in CSSF outside MG also in CSSF within MG.  Proposal 6: In calculation of CSSF outside MG: if MOs configured by MN and SN are merged from a capabilities perspective they are also counted only once in CSSF outside MG.  Proposal 7: In calculation of CSSF within MG: if MOs configured by MN and SN are merged from a capabilities perspective they are also counted only once in CSSF outside MG. |
| R4-2102827 | Ericsson | **Correction to inter-RAT CSSF (38.133, Section 9.1.5.1)**  Add to the definition of CSSFoutside\_gap to explicitly exclude a single merged MO which is both an LTE interRAT MO and an NR intrafrequency MO:  If an NR intra-frequency measurement object configured by PSCell and a NR inter-RAT measurement objects configured by E-UTRA PCell are for the same NR carrier frequency layer and all measurement object merging conditions defined in clause 9.1.3.2 are satisfied, it shall be counted in CSSFwithin\_gap,I as specified in clause 9.1.5.2.1 and shall not be counted in CSSFoutside\_gap as specified in this clause. Editors note : Implementations certified prior to RAN#95 may count such measurement objects in either CSSFoutside\_gap or CSSFwithin\_gap,I.  Add to the definition of CSSFwithin\_gap for EN-DC : For synchronous intra-band EN-DC, if an NR inter-frequency measurement object configured by PSCell and a NR inter-RAT measurement objects configured by E-UTRA PCell are for the same NR carrier frequency layer and all measurement object merging conditions defined in clause 9.1.3.2 are satisfied, they shall be counted only once in Minter,i,j.  Add similar text to the definition of MgroupBi,j. in NE-DC requirements. |
| R4-2102537 | Ericsson | **Correction to inter-RAT CSSF**  Cat A CR |
| R4-2102538 | Ericsson | **Correction to inter-RAT CSSF**  Cat A CR |
| R4-2101051 | MediaTek inc. | **CR on R15 remaining issues (38.133 Section 8.1.2.2)**  1. Clarify that the SSB-ToMeasure indications shall be the union of all MOs which can be merged.  2. Define the minimum requirement when both SSB and CSI-RS for L1-RSRP measurement are configured.  3. Clarify SFTD measurement reporting delay including measurement period plus the RRC procedure delay  4. Some editorial changes. |
| R4-2101052 | MediaTek inc. | CR on R15 remaining issues  Cat A CR |
| R4-2101053 | MediaTek inc. | CR on R15 remaining issues  Cat A CR |
| R4-2102737 | Huawei, HiSilicon | **Discussion on CSSF for inter-RAT measurement, SCell activation delay and cell identification requirements on deactivated SCell in Rel-15**  Proposal 5: For scenarios where UE is not assumed to perform cell detection on the target SCell, the SCell activation requirements apply provided that SSB offset is same on the target SCell and the active serving cell.  Proposal 6: Scaling factor Kp shall be added for deactivated SCell measurement requirements without gap in R15.  Proposal 7: The measurement requirements for deactivated SCell with gap shall be added in R15.  Proposal 8: For R15, it is left to UE implementation whether to perform NR inter-RAT measurements on NR serving carrier within MG or outside MG. However, this measurement can only be counted once either in calculation of CSSF\_within\_MG or CSSF\_outside\_MG. And for R16 and later release, UE shall perform NR inter-RAT measurements on NR serving carrier outside MG.  Proposal 9: For calculation of CSSF\_within\_MG and CSSF\_outside\_MG, measurements configured by LTE PCell and NR PSCell on the same NR carrier are counted as one candidates if they satisfy MO merging condition. |
| R4-2101050 | MediaTek inc. | **Remaining issues on RRM in R15**  Proposal 4: In EN-DC, the NR Inter-RAT MOs of measurements without MG configured by LTE MN shall be moved to the CSSF outside MG from CSSF within MG.  Proposal 5: The same MO merging condition shall be applied for the Inter-RAT MO configured by LTE MN and intra-frequency MO configured by NR SN. |
| R4-2100178 | Apple | **CR on smtc1 and smtc2 differentiation in intra-frequency measurement with MG R15 (38.133 Section 9.2.6)**  Add condition of smtc1 and smtc2 differentiation in intra-frequency measurement with MG. |
| R4-2100179 | Apple | CR on smtc1 and smtc2 differentiation in intra-frequency measurement with MG R16  Cat A CR |
| R4-2100180 | Apple | CR on smtc1 and smtc2 differentiation in intra-frequency measurement with MG R17  Cat A CR |
| R4-2100851 | CMCC | **Discussion on deactivated SCell measurement for intra-frequency measurement with measurement gap**  Observation 1: for intra-f measurement without MG, TS38.133 explicitly specify the time period for PSS/SSS detection, time period for time index detection, measurement period for deactivated SCell  Observation 2: for intra-f measurement with MG, it seems that the time period for PSS/SSS detection, time period for time index detection, measurement period for deactivated SCell are not specified.  Proposal 1: for the scenario of intra-f measurement with MG, it is necessary to specify the requirements for PSS/SSS detection, time index detection and measurement period for deactivated SCell. |
| R4-2100852 | CMCC | **CR on deactivated SCell measurement for intra-frequency measurement with measurement gap (38.133, Section 9.2.5, 9.2.6)**  1. Correct the caption for the time period for PSS/SSS detection, deactivated SCell (FR2) for intra-frequency measurement without MG  2. Specify the requirements on PSS/SSS detection, time index detection and measurement for deactivated SCell for intra-frequency measurement with MG. |
| R4-2100853 | CMCC | CR on deactivated SCell measurement for intra-frequency measurement with measurement gap  Cat A CR (Tdoc number for Rel-17 Cat CR) |
| R4-2102738 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R15 (38.133, Section 8.3.2, 9.4.1, 9.4.5, 9.2.5, 9.2.6)**  1. Update the SCell activation requriements  a) Clarifiy that current activation requirements do not apply when SCellSSB is outside frist active BWP  b) Clarify the condition for FR2 SSB-less SCell activation requirements  c) Add FR1 SSB-less SCell activation requirements  d) Clarifythe meaning of SCell measurement cycle” in FR1 known SCell activation requirements  e) Clarify that for scenarios where UE is not assumed to perform cell detection on the target SCell, requirements apply provided that SSB offset is same on the target SCell and the active or known serving cell.  2. Update the applicable requriements for NR – LTE inter-RAT E-CID measurement on LTE serving frequencies in NE-DC, such that the LTE SA intra-frequency requirements apply.  3. For deactivated SCell measurement:  -Adding scaling factor Kp for deactivated SCell measurement requirements without gap;  -Adding measurement requirements for deactivated SCell with gap |
| R4-2102739 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16**  Cat A CR |
| R4-2102740 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R17**  Cat A CR |

## Open issues summary

### Sub-topic 1-1 CSSF calcualtion for Inter-RAT measurement objective in EN-DC

**Issue 1-1-1: How to treat the issue whether to count inter-RAT MO in CSSF outside MG or CSSF within MG?**

* Proposals
  + Option 1 (Apple R4-2100172):
    - When inter-RAT MO is not on any NR serving CC, inter-RAT measurement is always performed within MG.
    - for R15 we propose an implementation #2 for EN-DC, that is,

When inter-RAT MO is on a NR serving CC, inter-RAT measurements are performed in the same way as NR intra-frequency measurement, i.e., it can be within or outside MG depending on whether SSB is contained in the active BWP, and whether SMTC is fully overlapping with MG.

* + - RAN4 further discuss in R16 that whether the implementation 2 could be used for inter-RAT measurement on NR non-serving CC.
  + Option 2 (Huawei R4-2102737):
    - For R15, it is left to UE implementation whether to perform NR inter-RAT measurements on NR serving carrier within MG or outside MG. However, this measurement can only be counted once either in calculation of CSSF\_within\_MG or CSSF\_outside\_MG. And for R16 and later release, UE shall perform NR inter-RAT measurements on NR serving carrier outside MG.
  + Option 3 (Ericsson R4-2102536):
    - RAN4 should initially discuss the technical solution for CSSF scaling of interRAT measurement objects configured by the LTE PCell.
* Recommended WF
  + TBA

**Issue 1-1-2: Whether/how to count CSSF outside MG and CSSF within MG**

* Proposals
  + Alternative 1(Apple R4-2100172):
    - Adopt Option 2a: count the NR inter-RAT MO on NR serving CC configured by LTE MN that can be measured without MG in CSSF outside MG and remove the inter-RAT MOs counted in CSSF outside MG from CSSF within MG. One note could be added into R15 spec that, “longer delays for cell identification and measurement periods derived based on CSSFwithin\_gap,i can be expected, if the UE is configured with inter-RAT MO on NR serving CC by E-UTRAN PCell in EN-DC mode”.
    - for calculation of CSSF outside MG, adopt Option 1a:

to consider merging of intra-frequency MO configured by NR SN and inter-RAT MO configured by LTE MN on the same serving frequency that are measured without MG, based on MO merging conditions in clause 9.1.3.2 of 38.133.

* + - for calculation of CSSF within MG, adopt Option 1a:

to consider merging of two MOs configured by LTE MN and NR SN on the same frequency that are measured within MG, based on MO merging conditions in clause 9.1.3.2 of 38.133.

* + Alternative 2 (Ericsson R4-2102536):
    - RAN4 should agree Option 2a (i.e., count in CSSF outside MG the NR inter-RAT MO on NR serving CC configured by LTE MN that can be measured without MG and remove from CSSF within MG the inter-RAT MOs counted in CSSF outside MG.

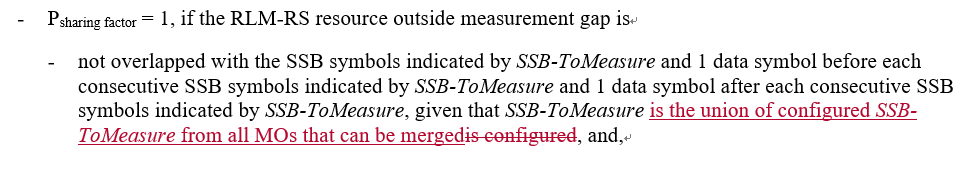
NOTE: This option applies in the case that it is possible to make non-gap based measurements, i.e. SSB is contained within the active BWP and the SMTC is not fully overlapping with the active BWP.

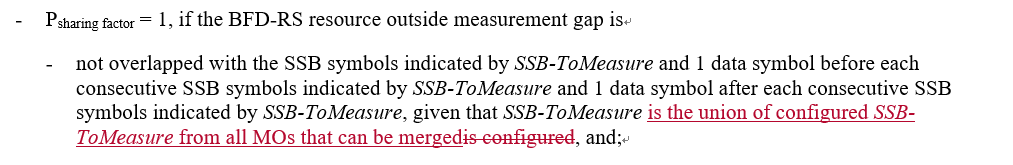
* + - Implementations which are certified prior to RAN#95 are allowed to include inter-RAT MOs counted in CSSF outside MG also in CSSF within MG.
    - In calculation of CSSF outside MG: if MOs configured by MN and SN are merged from a capabilities perspective they are also counted only once in CSSF outside MG.
    - In calculation of CSSF within MG: if MOs configured by MN and SN are merged from a capabilities perspective they are also counted only once in CSSF outside MG.
  + Alternative 3 (Huawei R4-2102737):
    - However, this measurement can only be counted once either in calculation of CSSF\_within\_MG or CSSF\_outside\_MG. And for R16 and later release, UE shall perform NR inter-RAT measurements on NR serving carrier outside MG.
    - For calculation of CSSF\_within\_MG and CSSF\_outside\_MG, measurements configured by LTE PCell and NR PSCell on the same NR carrier are counted as one candidates if they satisfy MO merging condition.
  + Alternative 4 (Mediatek R4-2101050)
    - In EN-DC, the NR Inter-RAT MOs of measurements without MG configured by LTE MN shall be moved to the CSSF outside MG from CSSF within MG.
    - The same MO merging condition shall be applied for the Inter-RAT MO configured by LTE MN and intra-frequency MO configured by NR SN.
* Recommended WF
  + Seems Option 2a in previous meeting is acceptable.
  + It seems agreeable that in both CSSF outside MG band CSSF within MG, if MOs configured by MN and SN can satisfy MO merging condition, the measurements should be counted once.

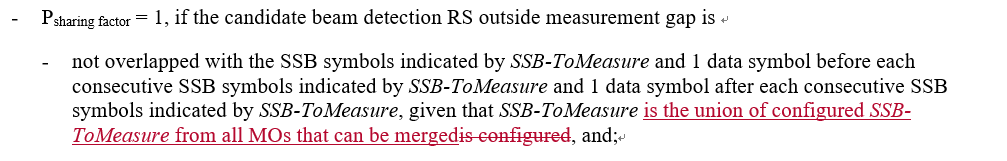
### Sub-topic 1-2 MO merging related to SSB-ToMeasurement indications

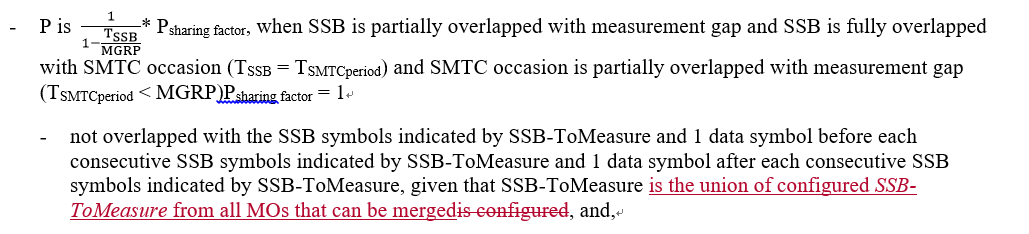
**Issue 1-2: MO merging related to SSB-ToMeasurement indications**

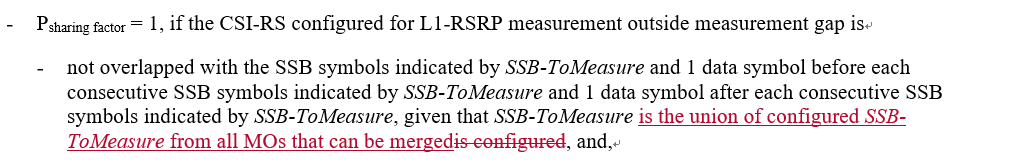
* Proposals (Mediatek RP-2101051)
  + Clarify that the *SSB-ToMeasure* indications shall be the union of all MOs which can be merged.
  + The following changes are proposed for Section 8.1.2.2, 8.1.3.2, 8.5.2.2, 8.5.3.2, 8.5.5.2, 8.5.6.2, 9.5.4.1, 9.5.4.2









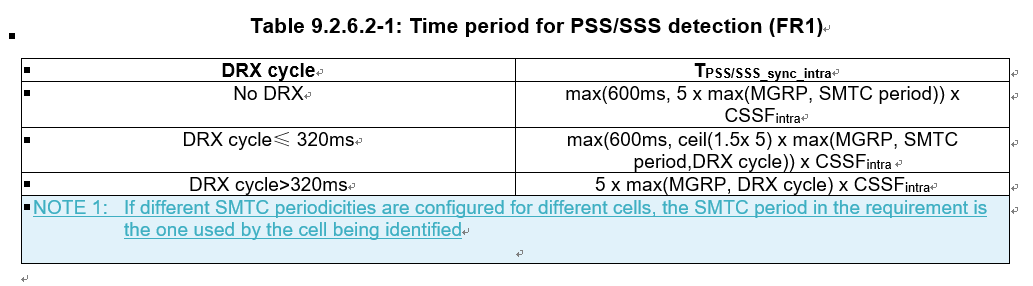


* Recommended WF
  + TBA

### Sub-topic 1-3 SMTC1 and SMTC2 differentiation

**Issue 1-3: SMTC1 and SMTC2 differentiation in intra-frequency measurement with MG**

* Proposals (Apple R4-2100178)
  + Add condition of smtc1 and smtc2 differentiation in intra-frequency measurement with MG.

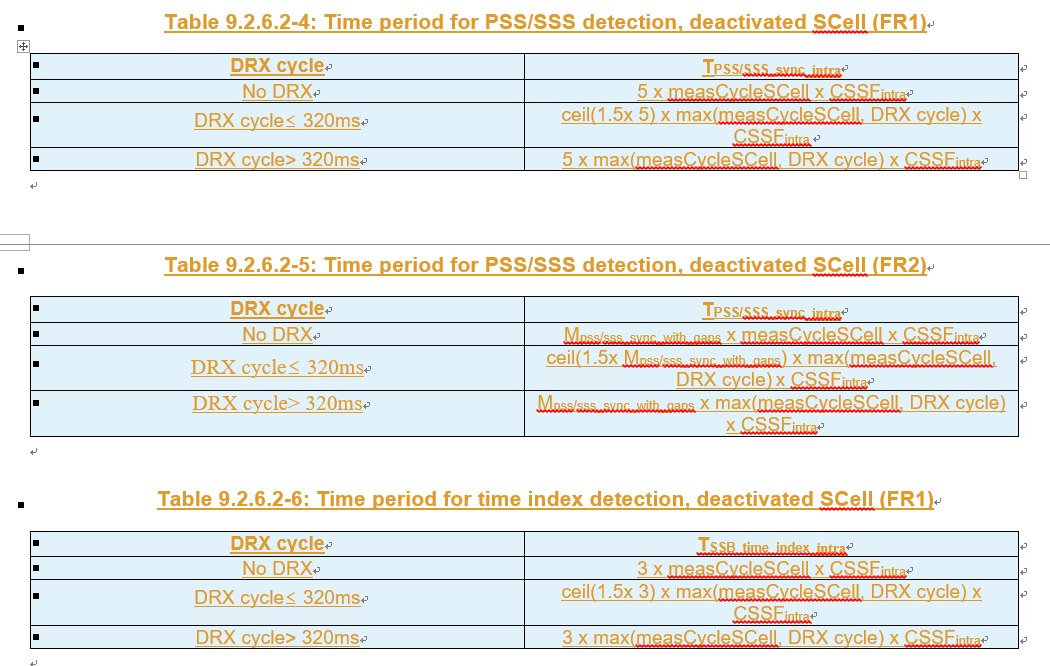


* Conclusion:
  + According to Chair (Andrey) guidance, this CR is postponed. So there is no need to discuss the topic in this meeting.

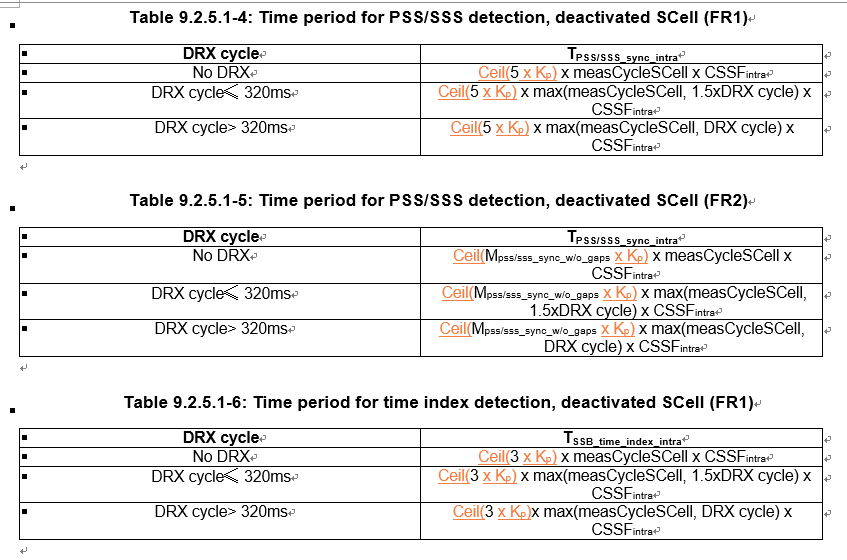
### Sub-topic 1-4 deactivated SCell measurement for intra-frequency measurement with measurement gap

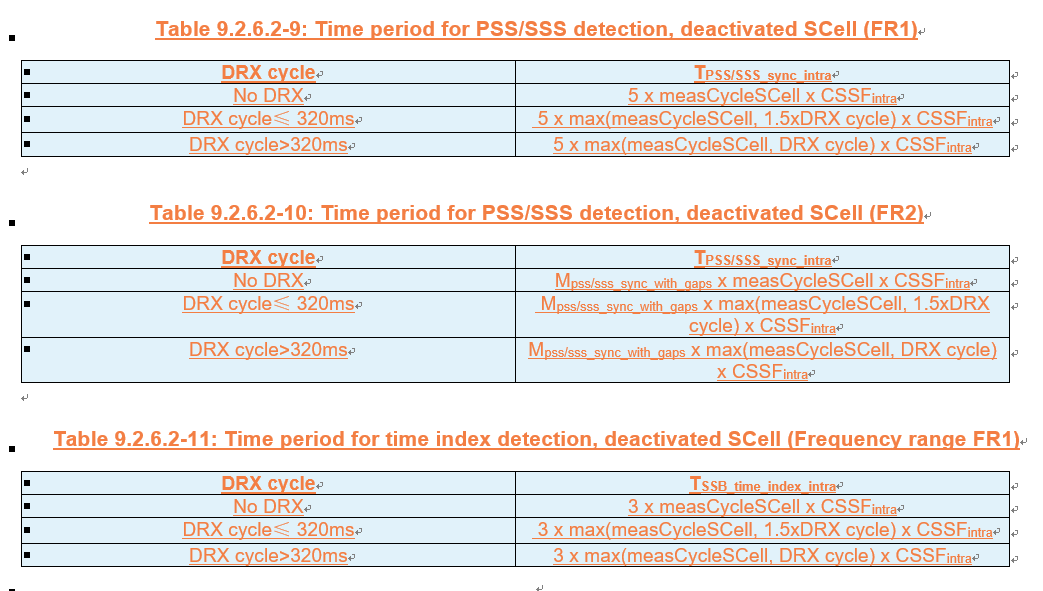
**Issue 1-4: deactivated SCell measurement for intra-frequency measurement with MG**

* Proposals
  + Option 1 (CMCC R4-21200851/2/3): for the scenario of intra-f measurement with MG, it is necessary to specify the requirements for PSS/SSS detection, time index detection and measurement period for deactivated SCell.



* + Option 2 (Huawei R4-2002737/38/39/40:
    - Scaling factor Kp shall be added for deactivated SCell measurement requirements without gap in R15.
    - The measurement requirements for deactivated SCell with gap shall be added in R15.





* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 1-1:  Sub topic 1-2:  ….  Others: |

### CRs/TPs comments collection

Please provide additional comments, if any, on CRs below for the issues in Sub-topic 1-1 CSSF calculation

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2100173 | Moderator: No Tdoc numbers are reserved for Rel-16 and Rel-17 Cat A CRs. |
| Company B |
|  |
| R4-2102827  R4-2102537  R4-2102538 | Company A |
| Company B |
|  |

Please provide additional comments, if any, on CRs below for the issues for sub-topic 1-2. Please focus on MO merging.

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2101050  R4-2101051  R4-2101052 | Company A |
| Company B |
|  |

Please provide additional comments on CRs below for the issues for sub-topic 1-4. Please focus on deactivated SCell requirements.

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2100852  R4-2100853 | Moderator: No Tdoc number is reserved for Rel-17 Cat A CRs. |
| Company B |
|  |
| R4-2102738  R4-2102739  R4-2102740 |  |
|  |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Recommendations on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provides recommendation on CRs/TPs Status update*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #2: Scell activation

## Companies’ contributions summary

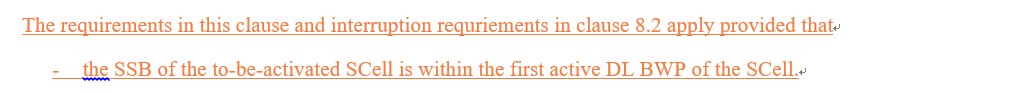
|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101006 | Apple | **CR on Scell activation delay maintenance (R15) (38.133, Section 8.3)**  1. Update the condition in SCell activation delay requirements for known target cell in FR1 |
| R4-2101007 | Apple | CR on Scell activation delay maintenance (R16)  Cat A CR |
| R4-2101008 | Apple | CR on Scell activation delay maintenance (R17)  Cat A CR |
| R4-2102737 | Huawei, HiSilicon | **Discussion on CSSF for inter-RAT measurement, SCell activation delay and cell identification requirements on deactivated SCell in Rel-15**  Proposal 1: The current SCell activation requirements, except those for SSB-less SCell, apply provided that the SSB of the to-be-activated SCell is within the first active DL BWP of the SCell.  Proposal 2: RAN4 to clarify that the condition “is not provided with any SMTC for the target SCell” means UE is not provided with SSB configuration for the SCell (absoluteFrequencySSB is absent).  Proposal 3: If UE is not provided with SSB configuration for the SCell in FR1, Tactivation\_time is 3 ms provided  - The target SCell is contiguous to an active serving cell in the same band, and  - The TypeA QCL for the target SCell is configured to the active serving cell, and  - The RTD between the target SCell and the active serving cell is <= CP/2  Proposal 4: Clarify that  “SCell measurement cycle is equal to or smaller than 160ms”  in FR1 known SCell activation requirements means  “the SCell has been measured within the last 160ms according to the measurement requirements defined for deactivated SCell in clause 9.2”.  Proposal 5: For scenarios where UE is not assumed to perform cell detection on the target SCell, the SCell activation requirements apply provided that SSB offset is same on the target SCell and the active serving cell. |
| R4-2102738 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R15 (38.133, Section 8.3.2, 9.4.1, 9.4.5, 9.2.5, 9.2.6)**  1. Update the SCell activation requriements  a) Clarifiy that current activation requirements do not apply when SCellSSB is outside frist active BWP  b) Clarify the condition for FR2 SSB-less SCell activation requirements  c) Add FR1 SSB-less SCell activation requirements  d) Clarifythe meaning of SCell measurement cycle” in FR1 known SCell activation requirements  e) Clarify that for scenarios where UE is not assumed to perform cell detection on the target SCell, requirements apply provided that SSB offset is same on the target SCell and the active or known serving cell.  2. Update the applicable requriements for NR – LTE inter-RAT E-CID measurement on LTE serving frequencies in NE-DC, such that the LTE SA intra-frequency requirements apply.  3. For deactivated SCell measurement:  -Adding scaling factor Kp for deactivated SCell measurement requirements without gap;  -Adding measurement requirements for deactivated SCell with gap |
| R4-2102739 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16**  Cat A CR |
| R4-2102740 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R17**  Cat A CR |
| R4-2100174 | Apple | **On SSB-less SCell activation**  Proposal 1: If RAN4 agrees to introduce the requirement for FR1 SSB-less SCell activation in R15, only the intra-band contiguous case shall be considered.  Proposal 2: if RAN4 agrees to introduce the FR1 SSB-less SCell activation for intra-band NC case in R16, the 3ms activation delay requirement only applies when time difference between active serving cell and intra-band NC to-be-activated SCell is less than 260ns.  Proposal 3: the FR2 SCell activation without SMTC shall be revised as,  If the SCell being activated belongs to FR2 and if there is at least one active serving cell on that FR2 band, if the UE supporting scellWithoutSSB is not provided with any SMTC for the target SCell, Tactivation\_time is 3 ms, provided  - the RS (s) of SCell being activated is (are) QCL-TypeD with RS (s) of one active serving cell on that FR2 band. |
| R4-2100175 | Apple | **CR on FR2 SCell activation requirement R15 (38.133, Section 8.3.2)**  Revision the wording for current FR2 SCell activation for the case when UE supporting *scellWithoutSSB* is not provided with any SMTC for the target SCell |
| R4-2100176 | Apple | CR on FR2 SCell activation requirement R16  Cat A CR |
| R4-2100177 | Apple | CR on FR2 SCell activation requirement R17  Cat A CR |
| R4-2101071 | NEC | **CR on SSB less SCell activation for FR1 for Rel-15 (38.133 Section 8.3.2, 8.3.3)**  SCells are assumed to be co-located for intra-band contiguous CA in FR1. SCell can be activated without SSB provided the timing of SCell can be obtained. For a SCell operating without SSB, timing of SCell for PDCCH/PDSCH reception can be obtained from the already activated serving cell for the intra-band contiguos CA in FR1. |
| R4-2101072 | NEC | **CR on SSB less SCell activation for FR1 for Rel-16**  SCells are assumed to be co-located for intra-band contiguous CA in FR1. SCell can be activated without SSB provided the timing of SCell can be obtained. For a SCell operating without SSB, timing of SCell for PDCCH/PDSCH and CSI-RS reception can be obtained from the already activated serving cell for the intra-band contiguos CA in FR1.  (Tdoc number for Rel-17 CR is missing. Should this CR be Cat A?) |
| R4-2102872 | Qualcomm Incorporated | **Cat-F CR to SSB-less SCell activation delay requirement for deactivated FR1 SCell in Rel-15 (38.133, Section 8.3.2)**  Added an SSB-less SCell activation delay requirement for deactivated FR1 SCell and included QCL relations between refernce signals across cells in the same FR1 band in accordance with allowed QCL relations specified by the current spec. |
| R4-2102873 | Qualcomm Incorporated | Cat-A CR to SSB-less SCell activation delay requirement for deactivated FR1 SCell in Rel-16  Cat A CR |
| R4-2102874 | Qualcomm Incorporated | Cat-A CR to SSB-less SCell activation delay requirement for deactivated FR1 SCell in Rel-17  Cat A CR |
| R4-2101050 | MediaTek inc. | **Remaining issues on RRM in R15**  Proposal 1: When TCI of to-be-activated SSB-less SCell is QCLed to a RS of FR1 active serving cell which isn’t a contiguous intra-band cell, there is no requirement for SCell activation.  Proposal 2: When the TCI state of to-be-activated SSB-less SCell is indicates the QCL to a RS of FR1 active serving cell which is a contiguous intra-band cell and this active serving cell fulfill the following conditions,   * + The RTD to the to-be-activated SCell is no larger than 260ns, and   + The RPD to the to-be-activated SCell is no larger than 6dB.   The Tactivation\_time time can be 3ms.  Otherwise, there is no requirement for this SSB-less SCell. |

## Open issues summary

### Sub-topic 2-1 Scell activation requirement

**Issue 2-1-1: SSB non in the first active BWP**

* Proposals (Huawei R4-2102737):
  + The current SCell activation requirements, except those for SSB-less SCell, apply provided that the SSB of the to-be-activated SCell is within the first active DL BWP of the SCell.



* Recommended WF
  + TBA

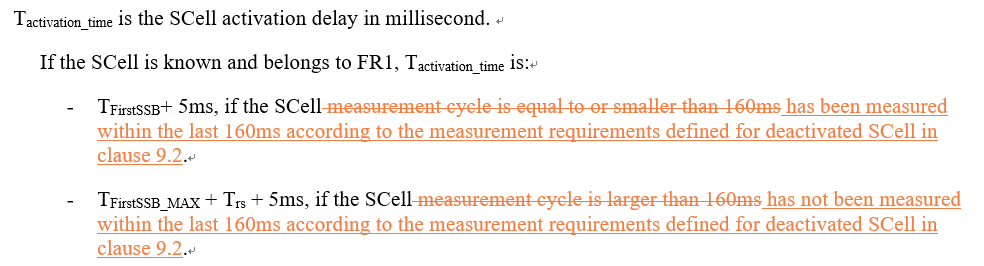
**Issue 2-1-2: Update conditions for SCell activation delay for the case where SCell is known**

* Proposal 1 (Huawei R4-2102737):
  + Regarding SCell measurement cycle and AGC, clarify that

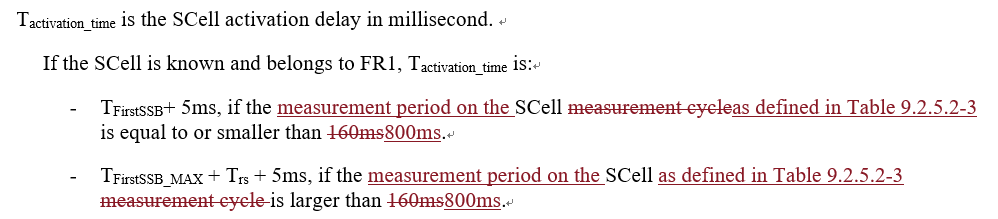
“SCell measurement cycle is equal to or smaller than 160ms”

in FR1 known SCell activation requirements means

“the SCell has been measured within the last 160ms according to the measurement requirements defined for deactivated SCell in clause 9.2”.



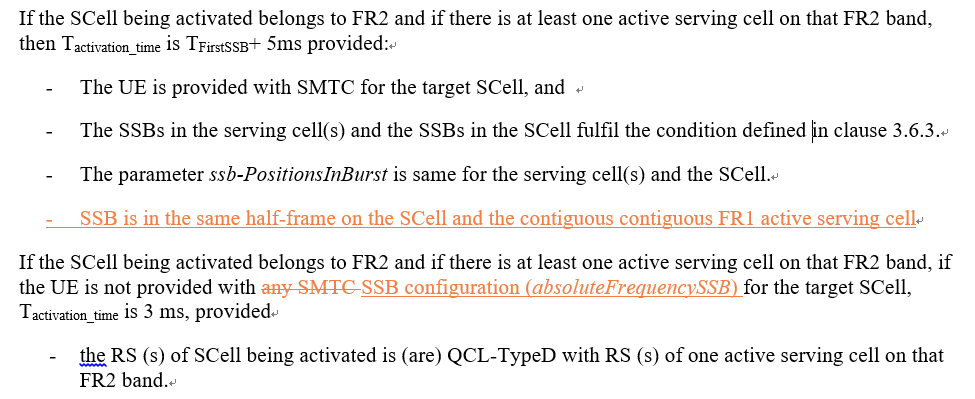
* Proposal 2 (Apple R4-2101006):
  + Update the condition in SCell activation delay requirements for known target cell in FR1



* Recommended WF
  + TBA

**Issue 2-1-3: Determination of SSB offset**

* Proposals (Huawei R4-2102737):
  + For scenarios where UE is not assumed to perform cell detection on the target SCell, the SCell activation requirements apply provided that SSB offset is same on the target SCell and the active serving cell.



* Recommended WF
  + TBA

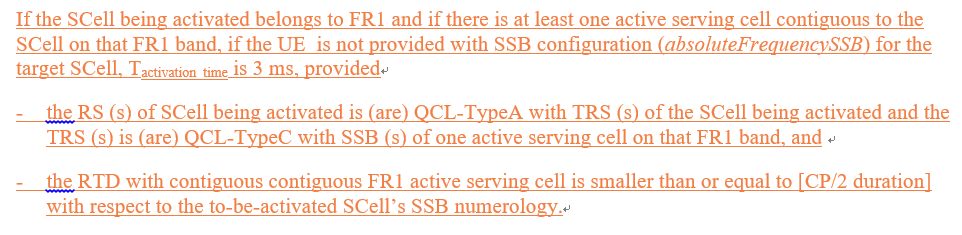
**Issue 2-1-4: Determination of SSB offset**

* Proposals (Huawei R4-2102737):
  + For scenarios where UE is not assumed to perform cell detection on the target SCell, the SCell activation requirements apply provided that SSB offset is same on the target SCell and the active serving cell.

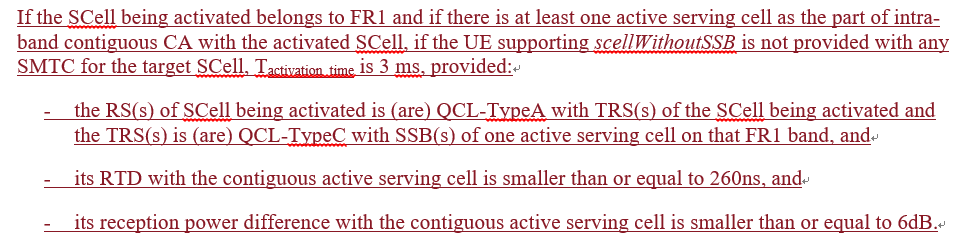
### Sub-topic 2-2 SSB-less Scell activation

**Issue 2-2-1: Condition and requirements for SSB-less SCell activation for FR1**

* Proposals
  + Option 1 (Huawei R4-2102737/38/39/40):
    - RAN4 to clarify that the condition “is not provided with any SMTC for the target SCell” means UE is not provided with SSB configuration for the SCell (absoluteFrequencySSB is absent).
    - If UE is not provided with SSB configuration for the SCell in FR1, Tactivation\_time is 3 ms provided
      * The target SCell is contiguous to an active serving cell in the same band, and
      * The TypeA QCL for the target SCell is configured to the active serving cell, and
      * The RTD between the target SCell and the active serving cell is <= CP/2



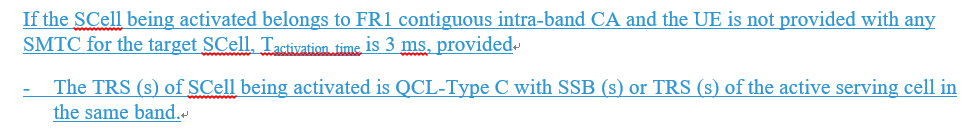
* + Option 2 (Qualcomm R4-2102872):



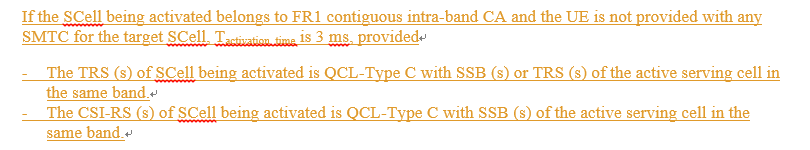
* + Option 3 (Apple R4-2100174/5):
    - If RAN4 agrees to introduce the requirement for FR1 SSB-less SCell activation in R15, only the intra-band contiguous case shall be considered.
    - if RAN4 agrees to introduce the FR1 SSB-less SCell activation for intra-band NC case in R16, the 3ms activation delay requirement only applies when time difference between active serving cell and intra-band NC to-be-activated SCell is less than 260ns.
  + Option 4 (Mediatek R4-2101050/1/2/3):
    - When TCI of to-be-activated SSB-less SCell is QCLed to a RS of FR1 active serving cell which isn’t a contiguous intra-band cell, there is no requirement for SCell activation.
    - When the TCI state of to-be-activated SSB-less SCell is indicates the QCL to a RS of FR1 active serving cell which is a contiguous intra-band cell and this active serving cell fulfill the following conditions,
      * The RTD to the to-be-activated SCell is no larger than 260ns, and
      * The RPD to the to-be-activated SCell is no larger than 6dB.

The Tactivation\_time time can be 3ms.

* + - Otherwise, there is no requirement for this SSB-less SCell.
  + Option 5 (NEC R4-2001071): for Rel-15



* + Option 5a (NEC R4-2001072): for Rel-16



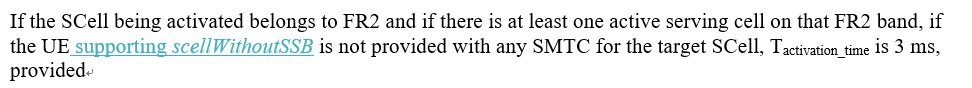
* Recommended WF
  + Can we try to use Option 1 and Option 2 as starting point to converge?

**Issue 2-2-2: Condition and requirements for SSB-less SCell activation for FR2**

* Proposals
  + Option 1 (Apple R4-2100174/5):
    - the FR2 SCell activation without SMTC shall be revised as,

If the SCell being activated belongs to FR2 and if there is at least one active serving cell on that FR2 band, if the UE supporting scellWithoutSSB is not provided with any SMTC for the target SCell, Tactivation\_time is 3 ms, provided

- the RS (s) of SCell being activated is (are) QCL-TypeD with RS (s) of one active serving cell on that FR2 band.



* Recommended WF
  + TBA
  + If agreeable, this part should be merged into the other CR.

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 2-1:  Sub topic 2-2:  ….  Others: |

### CRs/TPs comments collection

Please provide the additional comments on the CRs below, if any, for the issues in sub-topic 2-1. Please focus on SCell activation

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2101006  R4-2101007  R4-2101008 | Company A |
| Company B |
|  |
| R4-2102738  R4-2102739  R4-2102740 |  |
|  |
|  |

Please provide the additional comments on the CRs below, if any, for the issues in sub-topic 2-2. Please focus on SSB-less activation requirements

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2101071  R4-2101072 | Moderator: Tdoc number for Rel-17 CR is missing. |
| Company B |
|  |
| R4-2102738  R4-2102739  R4-2102740 |  |
|  |
|  |
| R4-2102872  R4-2102873  R4-2102874 |  |
|  |
|  |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #3: Beam management

## Companies’ contributions summary

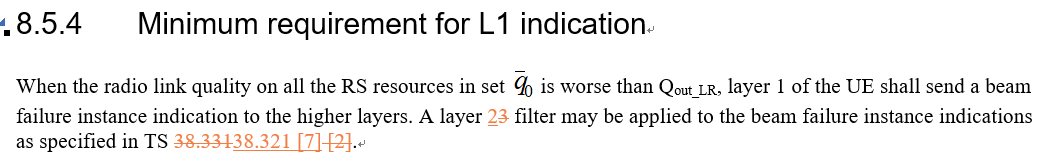
|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101464 | vivo | **CR on the filter for beam failure indications in 38.133 (38.133 Section 8.5.4)**  1. Clarify that the filter for beam failure indication should be Layer-2 filter  2. Clarify that such filter is not specified in TS 38.331. |
| R4-2101465 | vivo | **CR on the filter for beam failure indications in 38.133**  Cat A CR |
| R4-2101466 | vivo | **CR on the filter for beam failure indications in 38.133**  Cat A CR |

## Open issues summary

### Sub-topic 3-1 Correction of layer X filter for beam failure detection

**Issue 3-1: Correction of layer X filter for beam failure detection**

* Proposals (Vivo R4-2101464/5/6):



* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 3-1:  ….  Others: |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #4: BWP switching

## Companies’ contributions summary

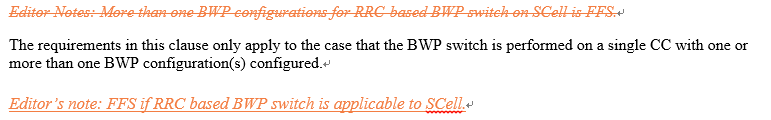
|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101407 | Intel Corporation | Discussion on RRC based BWP switching  **Proposal 1: Clarify that requirement for RRC based BWP switching on a single CC apply for SpCell only.** |

## Open issues summary

In previous meeting the agreements are as follows:

* *Agreements*
  + *Send LS to RAN2 clarifying applicability of RRC based switch to SCell*
  + *Update Editor’s note as:*
    - *FFS if RRC based BWP switch is applicable to SCell*
  + *RRC based BWP switch requirements for SCell defined in Rel-15 can be updated based on RAN2 response, if needed*
  + *Requirements for RRC based BWP switch for SCell (Rel-16 onwards)*
    - *Can be updated to follow RAN2’s agreements in Rel-16, if needed*

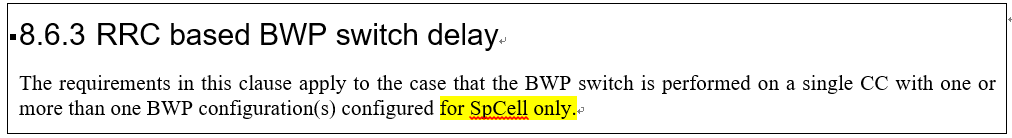
Accordingly the CR R4-2017342 was agreed.



### Sub-topic 4-1 Applicability of RRC based BWP switch delay requirement in Rel-15

**Issue 4-1: Applicability of RRC based BWP switch delay requirement in Rel-15**

* Proposal (Intel R4-2101407)
  + Clarify that requirement for RRC based BWP switching on a single CC apply for SpCell only.



* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 4-1:  ….  Others: |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #5: TCI state switching

## Companies’ contributions summary

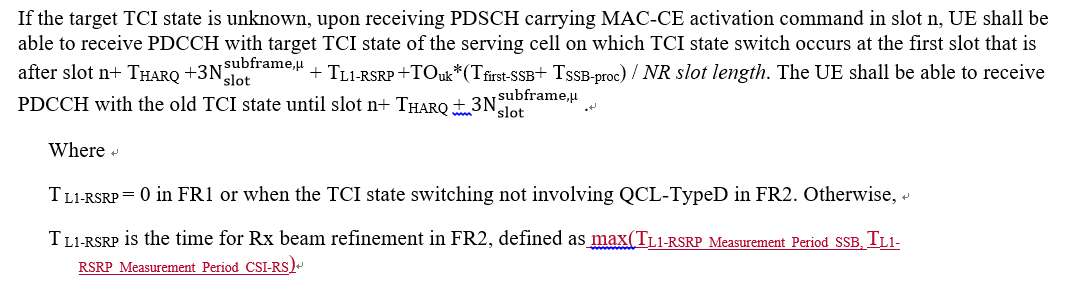
|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101050 | MediaTek inc. | **Remaining issues on RRM in R15**  Proposal 3: Define L1-RSRP delay requirement as max(TL1-RSPR\_Measurement\_Period\_SSB, TL1-RSRP\_Measurement\_Period\_CSI-RS) when both SSB and CSI-RS are configured for L1-RSRP measurement. |
| R4-2101051 | MediaTek inc. | **CR on R15 remaining issues (38.133 Section 8.1.2.2)**  2. Define the minimum requirement when both SSB and CSI-RS for L1-RSRP measurement are configured. |
| R4-2101052 | MediaTek inc. | CR on R15 remaining issues  Cat A CR |
| R4-2101053 | MediaTek inc. | CR on R15 remaining issues  Cat A CR |

## Open issues summary

### Sub-topic 5-1 Active TCI state switching

**Issue 5-1: L1-RSRP delay requirement**

* Proposal (Mediatek R4-2101050/1/2/3)
  + Define L1-RSRP delay requirement as max(TL1-RSPR\_Measurement\_Period\_SSB, TL1-RSRP\_Measurement\_Period\_CSI-RS) when both SSB and CSI-RS are configured for L1-RSRP measurement.



* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 5-1:  ….  Others: |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #6: Interruption

## Companies’ contributions summary

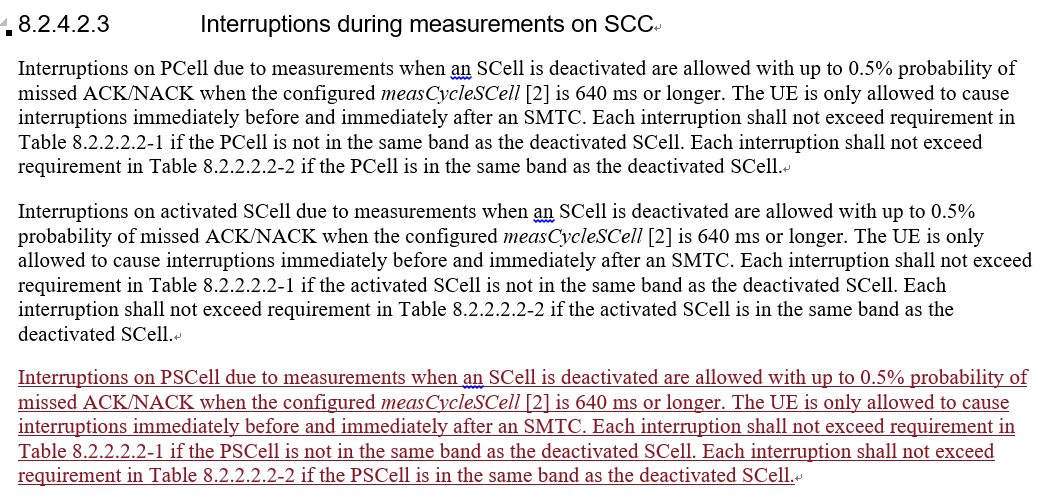
|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2100233 | Apple | **Interruption requirements due to measurement on SCC in NR-DC (R15) (38.133 Section 8.2.4.2.3)**  Requirements for interruption due to measurement on SCC in NR-DC are defined in TS38.133 clause 8.2.4.2.3, which has same content as that defined in SA in clause 8.2.2.2.2. However, only interruption on PCell and other activated SCells are covered. Interruption on PSCell is missing.  Introduce interruption on PSCell due to measurement on SCC in NR-DC.  (Tdoc numbers for Rel-16, Rel-17 CRs are missing) |

## Open issues summary

### Sub-topic 6-1 Interruption due to measurement on SCC in NR-DC

**Issue 6-1: interruption requirement due to measurement on SCC in NR-DC**

* Proposal (Apple, R4-2100233)



* Conclusion
  + According to Chair guidance (This CR is postponed). So there will be no discussion in this meeting.

# Topic #7: Intra-frequency ECID

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2102731 | Huawei, HiSilicon | **CR to remove intra-frequency ECID requirements for NE-DC 36133 R15 (36.133 Section 8.19.5)**  Remove the Intra-frequency E-CID measurement requirements for NE-DC. |
| R4-2102732 | Huawei, HiSilicon | **CR to remove intra-frequency ECID requirements for NE-DC 36133 R16**  Cat A CR |
| R4-2102733 | Huawei, HiSilicon | **CR to remove intra-frequency ECID requirements for NE-DC 36133 R17**  Cat A CR |
| R4-2102738 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R15 (38.133, Section 8.3.2, 9.4.1, 9.4.5, 9.2.5, 9.2.6)**  1. Update the SCell activation requriements  a) Clarifiy that current activation requirements do not apply when SCellSSB is outside frist active BWP  b) Clarify the condition for FR2 SSB-less SCell activation requirements  c) Add FR1 SSB-less SCell activation requirements  d) Clarifythe meaning of SCell measurement cycle” in FR1 known SCell activation requirements  e) Clarify that for scenarios where UE is not assumed to perform cell detection on the target SCell, requirements apply provided that SSB offset is same on the target SCell and the active or known serving cell.  2. Update the applicable requriements for NR – LTE inter-RAT E-CID measurement on LTE serving frequencies in NE-DC, such that the LTE SA intra-frequency requirements apply.  3. For deactivated SCell measurement:  -Adding scaling factor Kp for deactivated SCell measurement requirements without gap;  -Adding measurement requirements for deactivated SCell with gap |
| R4-2102739 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R16**  Cat A CR |
| R4-2102740 | Huawei, HiSilicon | **CR on SCell activation delay, cell idenfication requirements on deactivated SCell and inter-RAT ECID requirements for NE-DC R17**  Cat A CR |

## Open issues summary

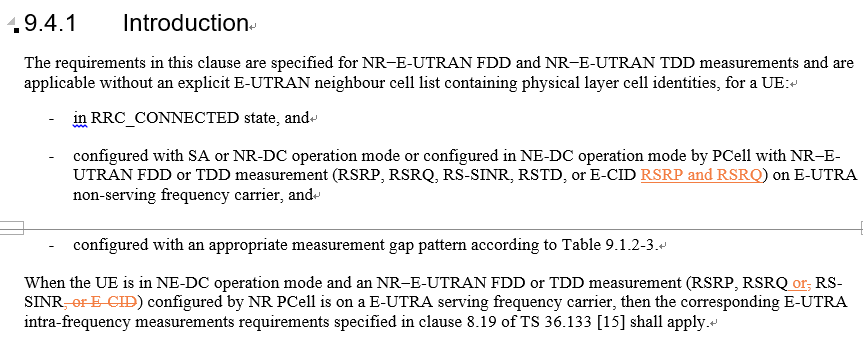
### Sub-topic 7-1 Correction for E-CID requirements

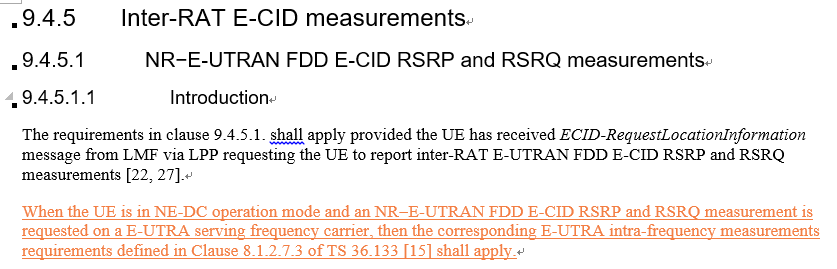
**Issue 7-1-1: Remove intra-frequency E-CID measurement requirement for NE-DC**

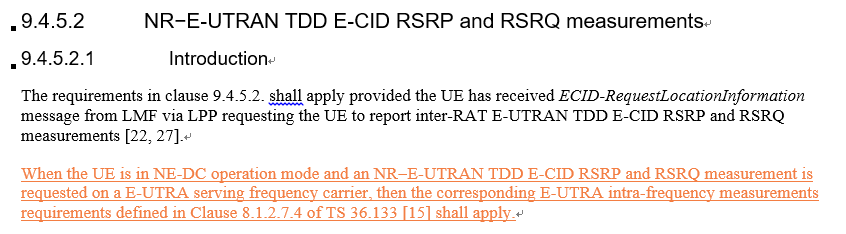
* Proposal (Huawei R4-2102731/2/3)
  + Remove 8.19.5 in 36.133
* Recommended WF
  + TBA

**Issue 7-1-2: Correction of E-CID requirements**

* Proposal (Huawei R4-2102738/39/40)







* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 7-1:  ….  Others: |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #8: Idle mode

## Companies’ contributions summary

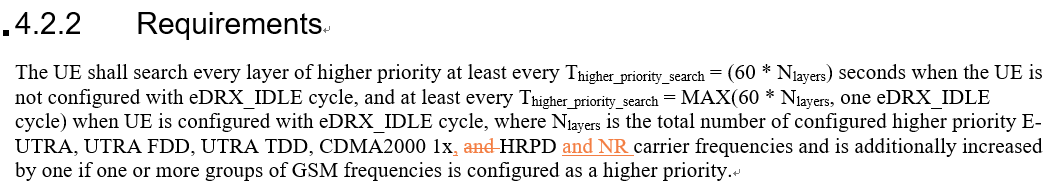
|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2102734 | Huawei, HiSilicon | **CR to idle more requirements in 36133 R15 (36.133 Section 4.2.2)**  Add NR as one of the inter-RAT targets for high priority carrier seach when UE is in LTE Idle mode. |
| R4-2102735 | Huawei, HiSilicon | CR to idle more requirements in 36133 R16  Cat A CR |
| R4-2102736 | Huawei, HiSilicon | CR to idle more requirements in 36133 R17  Cat A CR |

## Open issues summary

### Sub-topic 8-1 Correction for idle mode requirements

**Issue 8-1: Correction for idle mode requirements**

* Proposal (Huawei R4-2102734/5/6)
  + Add NR as one of the inter-RAT targets for high priority carrier seach when UE is in LTE Idle mode.



* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 8-1:  ….  Others: |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #9: SFTD and other editorial maintenance

## Companies’ contributions summary

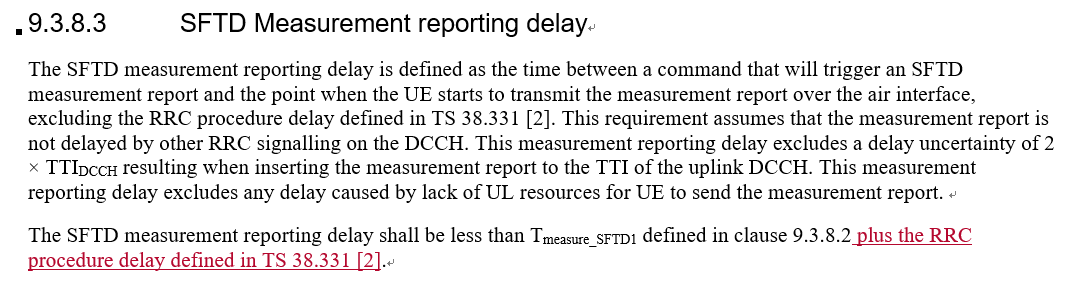
|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2101051 | MediaTek inc. | **CR on R15 remaining issues (38.133 Section 8.1.2.2)**  3. SFTD(9.3.8.3)  SFTD measurement reporting delay doesn’t include RRC procedure delay. |
| R4-2101052 | MediaTek inc. | CR on R15 remaining issues  Cat A CR |
| R4-2101053 | MediaTek inc. | CR on R15 remaining issues  Cat A CR |

## Open issues summary

### Sub-topic 9-1 Correction for SFTD requirements

**Issue 9-1: Correction for SFTD requirements**

* Proposal (Mediatek R4-2101051/2/3)
  + Clarify SFTD measurement reporting delay including measurement period plus the RRC procedure delay



* Recommended WF
  + TBA

### Sub-topic 9-2 others

**Issue 9-2: Other editorial changes in R4-2101051/2/3**

* Proposals
  + Changes in Section 9.2.5.1, 9.2.5.3
* Recommended WF
  + TBA

## Companies views’ collection for 1st round

### Open issues

|  |  |
| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 9-1:  Sub topic 9-2:  ….  Others: |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

|  |  |
| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Suggestion on WF/LS assignment*

|  |  |  |
| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |