**3GPP TSG RAN meeting #108 RP-251003**

**Pragues, Czech Republik, June 10-14th, 2025** *rev of RP-250041*

## Status Report to TSG

**Title: Status report for WID: Non-Terrestrial Networks (NTN) for NR Phase 3; rapporteur: Thales, CATT**

**Agenda item:** 9.3.2.2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WI / SI Name** | Rel-19 Non-Terrestrial Networks (NTN) for NR Phase 3 | | | | |
| included in this status report | Study Item:  No | Core part:  Yes | Performance part:  Yes | | Testing part:  No |
| **Acronym** | NR\_NTN\_Ph3 | | | | |
| **Unique ID** | 1020097 | | | | |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-243300 | | | | |
| **Target Completion Date**  **(indicate if changed)** | Study Item:  N/A | Core part:  09/2025 | Performance part: 03/2026 | Testing part: | |
| **Overall Completion level** | Study Item:  N/A | Core part:  Overall: 90%  RAN1: 100%  RAN2: 90%  RAN3: 95%  RAN4: 85% | Performance Part:  Overall: 0%  RAN4: 0% | Testing part: | |

Note: Overall completion level percentage numbers should use one of the colors below:

* xx%: Normal progress, no RAN plenary action needed
* xx%: Progress behind schedule, may need RAN plenary intervention. If so, SR should clearly define requested action
* xx%: Progress critically behind, RAN plenary shall intervene. SR should define requested action

**Source:**

|  |  |  |
| --- | --- | --- |
| **Leading WG** | | RAN2 |
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## 1 Work plan related evaluation

|  |  |
| --- | --- |
| **Do you want to modify the time budget for this WI/SI compared to what was endorsed at the last RAN meeting?** | No |

*If you answered No: Then please remove the Excel file from the zip file of this status report.*

*If you answered Yes: Then please fill out the attached Excel template to request a modification of the time budgets for your WI /SI. The Excel table has to be filled out for all affected RAN WGs and up to the target date of the WI/SI. The basis are the endorsed time budgets of the last RAN meeting. Please highlight all changes of the values.  
 One time unit (TU) corresponds to ~ 2 hours in the meeting.  
 If this status report covers a WI with Core and Performance part, then please have one line for each in the attached Excel table.  
 Note: If no Excel table is attached, then this means no time budget change.*

-

## 2. Detailed progress in RAN WGs since last TSG meeting (for all involved WGs)

NOTE: Agreements and Open issues impacted cross-TSG aspects shall be explicitly highlighted

## 2.1 RAN1

#### 2.1.1 Agreements

#### 2.1.1.1 Decisions during RAN1#120bis

**2.1.1.1.1 NR-NTN downlink coverage enhancement**

**Agreement**

When PDCCH CSS type-0 repetition is performed, for SIB1 link level enhancement, support PDSCH repetition of SIB1 transmitted within the same slot as the type0-CSS PDCCH repetition.

* UE supporting SIB1 PDSCH coverage enhancement assumes that the PDCCH and associated PDSCH to be repeated in both slots where the corresponding PDCCHs are transmitted.
* Each PDSCH SIB1 repetition is within the same slot of each PDCCH candidate for scheduling DCI
* The two associated PDSCHs have the same RV

FFS:Whether it is supported that type-0 PDCCH repetition is not performed while the PDSCH-SIB1 repetition is performed, and if so whether/how to handle the slot determination.

**Agreement**

For enabling/disabling SIB1 PDSCH repetition, RAN1 to consider the following options:

* Option 1: Using reserved bit(s) in PBCH payload.
* Option 2: Using scheduling PDCCH.
* Option 3: The enabling/disabling of SIB1 PDSCH repetition is implicitly indicating by the enabling/disabling of Type-0 CSS PDCCH repetition.

**Agreement**

For PDCCH repetition for Type0 PDCCH CSS of searchSpaceZero configured within MIB pdcch-ConfigSIB1:

* Enabling/disabling using reserved bit(s) in PBCH payload
  + No UE behavior is defined for UE in connected mode specifically for the case where the network changes its signaling between enabling and disabling PDCCH repetition for Type0 PDCCH CSS.

**Agreement**

For Msg4 PDSCH repetition scheme, the Msg4 PDSCH is repeated in N consecutive slots:

* The same resource allocation is assumed for all repetitions
* The supported repetition factors are: 2 and 4
  + The network configures a single value between 2 and 4 at a given time
* The RV cycling is used for each repetition
  + If N=4:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Starting RV | RV applicable to the nth repetition/transmission | | | |
| n mod 4 = 0 | n mod 4 = 1 | n mod 4 = 2 | n mod 4 = 3 |
| 0 | 0 | 2 | 3 | 1 |
| 2 | 2 | 3 | 1 | 0 |
| 3 | 3 | 1 | 0 | 2 |
| 1 | 1 | 0 | 2 | 3 |

Agreement

For PDCCH repetition for Type0 PDCCH CSS of searchSpaceZero configured within MIB pdcch-ConfigSIB1, support repeated PDCCH candidates in the two consecutive slots and associated with the same SSB index ( as defined in section 13 of TS 38.213) at least for M=2.

* Repeated PDCCH candidates share the same aggregation level (AL), coded bits and same candidate index
  + - Note: if the network repeats the Type 0 PDCCH across two consecutive slots, a legacy UE might decode the PDCCH and associated PDSCH in one slot and skip PDCCH monitoring in the other slot.

Note: further discuss the potential solution for M=1 and M=1/2.

**Working assumption**

For PDCCH CSS other than Type-0 CSS and other than Type-3 CSS for common search spaces other than SearchSpaceZero, intra-slot PDCCH repetition is supported.

RAN1 to down select between option 1 and option 2:

Option 1: Use same CORESET and two different SS (SS Set1 and SS Set2)

* Linking two PDCCH candidates (adopt the same mechanism for SS linking specified in Release 17)
* FFS: Blind decoding limit

Option 2: Use same CORESET associated with one SS which is repeated by introducing symbol domain offset X

* FFS: Blind decoding limit
* FFS: details configuration and signalling

*Nokia expressed the concern on the above working assumption that this will take physical resources away from intra-slot scheduling for legacy PDSCH.*

**Agreement**

For enabling/disabling Msg4 PDSCH repetition, RAN1 to down-select among the following options:

* Option 1: UE specific PDSCH with Msg4 repetition activation indicated via PDCCH- DCI Format 1\_0
  + FFS: indication details.
  + FFS: whether/how network is informed by the UE that certain conditions are met to trigger Msg4 PDSCH repetition (e.g. RSRP detected at UE is less than x dB)
* Option 2: The enabling/disabling of Msg4 PDSCH repetition is implicitly indicated by the enabling/disabling of SIB1 PDSCH repetition.
* Option 3: The enabling/disabling is indicated by SIB1 configuration
  + FFS: whether/how network is informed by the UE that certain conditions are met to trigger Msg4 PDSCH repetition (e.g. RSRP detected at UE is less than x dB)

FFS: Whether UE reports its capability

**2.1.1.1.2 Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands**

**Agreement**

**Update the working assumption in RAN1 #120 with the following updates:**

For Rel-19 NTN HD-FDD (e)Redcap UE in RRC connected mode, the following handling rule for collision case 4 is supported:

* Handling of collision with PDSCH (at least for system information) scheduled by Type-0/0A-PDCCH CSS in RRC-Connected mode is left to UE implementation whether to prioritize UL or prioritize DL with the constraint in the note2.
* Handling of collision with PDSCH scheduled by Type-1/2-PDCCH CSS in RRC-Connected mode is left to UE implementation whether to prioritize UL or prioritize DL with the constraint in the note2.
* FFS: handling of PDCCH ordered PRACH transmission
* For other use cases, default priority rule for collision case 4 in RRC-Connected mode is that DL is prioritized.
  + Network is allowed to indicate UL overriding DL for all cases
    - This is signaled by one UE specific RRC parameter
  + Note1: if DL is prioritized, the DL prioritization applies only if the UL cancellation timeline can be satisfied, otherwise UL is prioritized.

Note2: UE shall comply to the following existing procedure in 38.331:

* UEs in RRC\_CONNECTED shall monitor for SI change indication in any paging occasion at least once per modification period if the UE is provided with common search space, including *pagingSearchSpace*, *searchSpaceSIB1* and *searchSpaceOtherSystemInformation*, on the active BWP to monitor paging, as specified in TS 38.213 [13], clause 13.

**2.1.1.1.3 NR-NTN uplink capacity/throughput enhancement**

Agreement

RAN1 assumes that the UE is required to maintain phase continuity and power consistency for the duration of one OCC group with PUSCH.

* FFS: under which conditions the above applies, e.g. under the same conditions that phase continuity applies for DMRS bundling

Agreement

Send LS to RAN4 on requirements for the phase continuity and power consistency:

RAN1 has agreed the following:

* RAN1 assumes that the UE is required to maintain phase continuity and power consistency for the duration of one OCC group with PUSCH.
  + FFS: under which conditions the above applies, e.g. under the same conditions that phase continuity applies for DMRS bundling

RAN1 ask RAN4 whether the same phase continuity requirements as for DMRS bundling can be applied for OCC length 2 and/or OCC length 4 under the same conditions as for DMRS bundling, or if new requirements are needed.

Agreement

The draft LS in R1-2503070 is endorsed. Final LS is in R1-2503071.

**Agreement**

OCC length and OCC sequence for OCC with CG PUSCH Type 1 is configured by RRC higher-layers.

* Up to RAN2 whether to signal this with one or two RRC parameters
* Note: OCC lengths and sequences to be provided in the table of RRC parameters to be prepared by the WI rapporteur

**Agreement**

For OCC with CG-PUSCH, the RV sequence applied across OCC groups is RRC configured among the RV sequences defined for legacy CG PUSCH, i.e., [0,2,3,1], [0,3,0,3] or [0,0,0,0].

* Note: no new RRC parameter is needed for the above
* FFS: if OCC group dropping is later agreed, how to count RVs may need to be discussed for that case

Agreement

For resolving the overlapping PUSCH repetitions with inter-slot OCC and PUCCH with/without repetitions, the legacy timeline conditions for UCI multiplexing or prioritization for dropping PUSCH [/ PUCCH] applies according with the following update:

* “the first PUSCH repetition of an OCC group” is used instead of “PUSCH repetition” for the legacy timeline condition, where the legacy PUSCH repetition that overlaps with a PUCCH belongs to the OCC group

Note: how to capture the above agreement is up to the spec editor.

**Agreement**

For the OCC length applied for OCC DG PUSCH and CG PUSCH Type 2, consider the following options:

* Option 1: Configured by RRC higher-layer parameter.
  + Note: this does not preclude jointly configuring OCC sequence and OCC length with the same RRC configuration
* Option 2: Max value is configured by RRC higher-layer parameter, and the applied value is implicitly determined from the configured repetition number.
* Option 3: Candidates values are configured by RRC higher-layer parameter, and the applied value is indicated by scheduling DCI for DG PUSCH or by activation DCI for CG PUSCH Type 2.
  + Note: this does not preclude jointly configuring OCC sequence and OCC length with the same RRC configuration
* Option 4: Single value is indicated by scheduling DCI for DG PUSCH and by activation DCI for CG PUSCH Type 2 (no RRC configuration of candidate values).
* Option 5: Max value is configured by RRC higher-layer parameter, and the applied value is indicated by scheduling DCI for DG PUSCH and by activation DCI for CG PUSCH Type 2.

Note: it is not precluded to select a different option for DG PUSCH and CG PUSCH Type 2.

**Agreement**

If PUCCH without repetitions overlaps with inter-slot OCC with any PUSCH repetitions in an OCC group with a same priority index for PUCCH/PUSCH, the legacy conditions and rules for UCI multiplexing or prioritization for dropping applies with the following updates:

* If the UCI is multiplexed on the PUSCH repetition according to legacy rules and the updated timeline conditions for UCI multiplexing are satisfied, UCI is multiplexed on all PUSCH repetitions without A-CSI reports within an OCC group with inter-slot OCC overlaps with the PUCCH. (Option 3-a)
  + FFS: PUSCH repetition with A-CSI reports
* If the PUSCH repetition is dropped according to legacy rules and the updated timeline conditions for PUSCH dropping are satisfied, UCI is transmitted on PUCCH and all PUSCH repetitions within the OCC group that overlaps with the PUCCH are dropped (Option 2)
  + FFS: if PUCCH is overlap with PUSCH repetition in both time and frequency domain~~.~~
* UE does not expect there are multiple PUCCHs without repetitions in different PUCCH slots with a same or different UCI types other than SR overlapping with multiple PUSCH repetitions in the same OCC group.
  + FFS: whether the above applies only when at least one of the overlapping PUCCHs result in a UCI being multiplexed on the PUSCH

Note 1: If the UCI on the PUCCH is dropped according to legacy rules and [updated] timeline conditions for UCI dropping are satisfied, there is no [additional] spec impact. (Option 1)

Note 2: There can be multiple PUCCHs with same or different UCI types in the same slot (i.e. CSI report and HARQ-ACK) as in the legacy specifications

Working assumption 1: The above agreement applies to different priority indexes for PUCCH/PUSCH if no additional specification impact is identified.

Working assumption 2: The above agreement applies to PUCCH with repetitions if no additional specification impact is identified.

Agreement

For the OCC sequence applied for OCC DG PUSCH and CG PUSCH Type 2, the sequence is indicated dynamically in DCI

* FFS: with a new field or reusing an existing field

#### 2.1.1.1 Decisions during RAN1#121

**Agreement**

The draft LS in R1-2504933 with NR-NTN TP for TS 38.300 is endorsed with the following revisions:

* These enhancements are specifically targeted at mitigating the issues in HD collision cases at the UE side, including scenarios where semi-statically configured downlink reception collides with semi-statically configured uplink transmission, and where dynamically scheduled downlink reception collides with dynamically scheduled uplink transmission.
* Inter-slot Orthogonal Cover Codes (OCC) with OCC length 2 to multiplex up to two UEs
* Insertion of **<Unchanged text is omitted>** in missing places

Final LS in R1-2504934.

**2.1.1.1.1 NR-NTN downlink coverage enhancement**

**Agreement**

The enabling/disabling of SIB1 PDSCH repetition is implicitly indicated by the enabling/disabling of Type-0 CSS PDCCH repetition.

**Agreement**

For the activation/deactivation of Msg4 PDSCH repetition:

* Alt 1: UE specific PDSCH with Msg4 repetition activation indicated via DCI Format 1\_0:
  + Signaling uses re-interpretation of 1 MSB in MCS field in DCI.
  + A UE capable of Msg4 PDSCH repetition may report its capability/request in Msg3 PUSCH.
    - Note: RAN1 considers there is no difference between capability and request
    - FFS: whether to specify condition(s) for the UE to report its capability/request. Such conditions may be discussed in RAN1 or other WGs.
  + The aggregation factor is configured in SIB1, with possible value 2 or 4
    - When the aggregation factor is configured in SIB1, the PDSCH MSG4 repetition is enabled.

Send LS to RAN2 informing about the above agreement, asking RAN2 to consider the agreement when designing the report in Msg3 PUSCH.

**Agreement**

The draft LS in R1-2504935 is endorsed with the following revision:

* RAN1 has agreed to support for Msg4 PDSCH repetition

Final LS in R1-2504936.

**Agreement**

For PDCCH repetition for Type0 PDCCH CSS of searchSpaceZero configured within MIB pdcch-ConfigSIB1, the solution agreed for M = 2 is also applied to M = 1 and M = 1/2.

**Agreement**

Revise the RAN1#120bis agreement as follows:

**Agreement**

For PDCCH repetition for Type0 PDCCH CSS of searchSpaceZero configured within MIB pdcch-ConfigSIB1:

* Enabling/disabling using a reserved bit~~(s)~~ (i.e ) in PBCH payload

No UE behavior is defined for UE in connected mode specifically for the case where the network changes its signaling between enabling and disabling PDCCH repetition for Type0 PDCCH CSS.

**Agreement**

For PDCCH CSS other than Type-0 CSS and other than Type-3 CSS for common search spaces other than SearchSpaceZero, support intra-slot repetition based on:

* The starting symbol of monitoring occasion of the second SS is located right after the ending symbol of monitoring occasion of the first SS.
* BD is counted as one or two, subject to UE capability, in RRC connected mode
  + UE assumes that a DCI Format with the same content is repeated on two PDCCH candidates.
  + Note: From RAN1 perspective UE is expected to deliver performance no worse than soft combining
* PDCCH repetition is applicable to RNTI of the CSS.
* Repeated PDCCH candidates within the same CORESET repeated in the slot, and share the same aggregation level (AL), coded bits and same candidate index.
  + Up to editor how to capture this in writing the relevant RAN1 specification.

**Working assumption**

Inter-slot Type-0 CSS PDCCH repetition is only applicable to the SI-RNTI, and the following rule for BD counting is defined:

* 1 BD in first slot.
* In the second slot: 2 BD in RRC connected mode
  + One BD for Type-0 CSS PDCCH repetition with SI-RNTI and one BD for other PDCCH

**Conclusion**

It can be discussed in UE feature session whether a dedicated PDSCH repetition capability (e.g. FG5-17a and FG16-2b-5) is a pre-requisite UE feature for Msg4 PDSCH repetition.

**2.1.1.1.2 Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands**

**Agreement**

**Confirm working assumption in RAN1 #120b with the following update:**

For Rel-19 NTN HD-FDD (e)Redcap UE in RRC connected mode, the following handling rule for collision case 4 is supported:

* Handling of collision with PDSCH scheduled by Type-0/0A-PDCCH CSS in RRC-Connected mode is left to UE implementation whether to prioritize UL or prioritize DL with the constraint in the note1.
* Handling of collision with PDSCH scheduled by Type-1/2-PDCCH CSS in RRC-Connected mode is left to UE implementation whether to prioritize UL or prioritize DL with the constraint in the note1.
* When PDCCH ordered PRACH transmission collides with DL reception, it is up to UE implementation whether to prioritize the PDCCH ordered PRACH transmission
* For other use cases, default priority rule for collision case 4 in RRC-Connected mode is that DL is prioritized.
  + Network is allowed to indicate UL overriding DL for all these other cases
    - This is signaled by one UE specific RRC parameter
  + If DL is prioritized, the DL prioritization applies only if the UL cancellation timeline can be satisfied, otherwise UL is prioritized.

Note1: UE shall comply to the following existing procedure in 38.331:

* UEs in RRC\_CONNECTED shall monitor for SI change indication in any paging occasion at least once per modification period if the UE is provided with common search space, including *pagingSearchSpace*, *searchSpaceSIB1* and *searchSpaceOtherSystemInformation*, on the active BWP to monitor paging, as specified in TS 38.213 [13], clause 13.

**2.1.1.1.3 NR-NTN uplink capacity/throughput enhancement**

**Agreement**

Remove the FFS in sub-bullet of 2nd bullet in RAN1#120bis agreement on UCI multiplexing.

1. If the PUSCH repetition is dropped according to legacy rules and the updated timeline conditions for PUSCH dropping are satisfied, UCI is transmitted on PUCCH and all PUSCH repetitions within the OCC group that overlaps with the PUCCH are dropped (Option 2)
   1. ~~FFS: if PUCCH is overlap with PUSCH repetition in both time and frequency domain.~~

**Agreement**

When OCC is applied on the PUSCH with UL-SCH with repetition type A and A-CSI report is triggered, the following applies:

1. The A-CSI report(s) is multiplexed on all PUSCH repetitions within the first OCC group

**Agreement**

For the OCC length applied for OCC DG PUSCH and CG PUSCH Type 2, support:

* Option 3: Candidates values are configured by RRC higher-layer parameter as part of the TDRA table with a new column for configuring the OCC length, and the applied value is indicated by scheduling DCI for DG PUSCH or by activation DCI for CG PUSCH Type 2.
  + No additional rows for the TDRA table

**Conclusion**

RAN1 will not specify enhancements for support of TBoMS with inter-slot OCC for PUSCH in Rel-19.

**Conclusion**

There is no consensus in RAN1 to introduce a restriction on the number of PRBs to support inter-slot OCC for PUSCH.

**Agreement**

For the OCC sequence applied for OCC DG PUSCH and CG PUSCH Type 2, the sequence is indicated dynamically in DCI Format 0\_1 and Format 0\_2. Support implicit DCI indication with re-use of antenna port field.

Association between antenna ports and OCC sequence is defined by re-using the legacy tables with two new columns added for OCC sequence. Note: the tables could directly reference the OCC sequence index (Table 6.3.2.5A-1 and Table 6.3.2.5A-2 in TS38.211) or spell out the sequence as in the example below.

Table 7.3.1.1.2-6: Antenna port(s), transform precoder is enabled, dmrs-Type=1, maxLength=1,  
except that dmrs-UplinkTransformPrecoding and tp-pi2BPSK are both configured and  
π/2-BPSK modulation is used

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Value | Number of DMRS CDM group(s) without data | DMRS port(s) | OCC sequence for OCC length =2 | OCC sequence for OCC length =4 |
| 0 | 2 | 0 | [1 1] | [1 1 1 1] |
| 1 | 2 | 1 | [1 -1] | [1 -1 1 -1] |
| 2 | 2 | 2 | [1 1] | [1 1 -1 -1] |
| 3 | 2 | 3 | [1 -1] | [1 -1 -1 1] |

Table 7.3.1.1.2-6A: Antenna port(s), transform precoder is enabled, *dmrs-UplinkTransformPrecoding* and *tp-pi2BPSK* are both configured, π/2-BPSK modulation is used, *dmrs-Type*=1, *maxLength*=1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Value | Number of DMRS CDM group(s) without data | DMRS port(s) | OCC sequence for OCC length =2 | OCC sequence for OCC length =4 |
| 0 | 2 | 0, nSCID= 0 | [1 1] | [1 1 1 1] |
| 1 | 2 | 0, nSCID= 1 | [1 -1] | [1 -1 1 -1] |
| 2 | 2 | 2, nSCID= 0 | [1 1] | [1 1 -1 -1] |
| 3 | 2 | 2, nSCID= 1 | [1 -1] | [1 -1 -1 1] |

Table 7.3.1.1.2-7: Antenna port(s), transform precoder is enabled, *dmrs-Type*=1, *maxLength*=2,  
except that *dmrs-UplinkTransformPrecoding* and *tp-pi2BPSK* are both configured and  
π/2-BPSK modulation is used

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Value | Number of DMRS CDM group(s) without data | DMRS port(s) | Number of front-load symbols | OCC sequence for OCC length =2 | OCC sequence for OCC length =4 |
| 0 | 2 | 0 | 1 | [1 1] | [1 1 1 1] |
| 1 | 2 | 1 | 1 | [1 -1] | [1 -1 1 -1] |
| 2 | 2 | 2 | 1 | [1 1] | [1 1 -1 -1] |
| 3 | 2 | 3 | 1 | [1 -1] | [1 -1 -1 1] |
| 4 | 2 | 0 | 2 | [1 1] | [1 1 1 1] |
| 5 | 2 | 1 | 2 | [1 -1] | [1 -1 1 -1] |
| 6 | 2 | 2 | 2 | [1 1] | [1 1 -1 -1] |
| 7 | 2 | 3 | 2 | [1 -1] | [1 -1 -1 1] |
| 8 | 2 | 4 | 2 | [1 1] | [1 1 1 1] |
| 9 | 2 | 5 | 2 | [1 -1] | [1 -1 1 -1] |
| 10 | 2 | 6 | 2 | [1 1] | [1 1 -1 -1] |
| 11 | 2 | 7 | 2 | [1 -1] | [1 -1 -1 1] |
| 12-15 | Reserved | Reserved | Reserved | Reserved | Reserved |

Table 7.3.1.1.2-7A: Antenna port(s), transform precoder is enabled, *dmrs-UplinkTransformPrecoding* and *tp-pi2BPSK* are both configured, π/2-BPSK modulation is used, *dmrs-Type=1, maxLength=2*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Value | Number of DMRS CDM group(s) without data | DMRS port(s) | Number of front-load symbols | OCC sequence for OCC length =2 | OCC sequence for OCC length =4 |
| 0 | 2 | 0, nSCID= 0 | 1 | [1 1] | [1 1 1 1] |
| 1 | 2 | 0, nSCID= 1 | 1 | [1 -1] | [1 -1 1 -1] |
| 2 | 2 | 2, nSCID= 0 | 1 | [1 1] | [1 1 -1 -1] |
| 3 | 2 | 2, nSCID= 1 | 1 | [1 -1] | [1 -1 -1 1] |
| 4 | 2 | 0, nSCID= 0 | 2 | [1 1] | [1 1 1 1] |
| 5 | 2 | 0, nSCID= 1 | 2 | [1 -1] | [1 -1 1 -1] |
| 6 | 2 | 2, nSCID= 0 | 2 | [1 1] | [1 1 -1 -1] |
| 7 | 2 | 2, nSCID= 1 | 2 | [1 -1] | [1 -1 -1 1] |
| 8 | 2 | 4, nSCID= 0 | 2 | [1 1] | [1 1 1 1] |
| 9 | 2 | 4, nSCID= 1 | 2 | [1 -1] | [1 -1 1 -1] |
| 10 | 2 | 6, nSCID= 0 | 2 | [1 1] | [1 1 -1 -1] |
| 11 | 2 | 6, nSCID= 1 | 2 | [1 -1] | [1 -1 -1 1] |
| 12-15 | Reserved | Reserved | Reserved | Reserved | Reserved |

**Conclusion**

Explicit configuration / indication of OCC enabler is not supported.

**Agreement**

Revise the first bullet in RAN1#120bis agreement on UCI multiplexing with “without A-CSI reports” and FFS removed as below:

1. If the UCI is multiplexed on the PUSCH repetition according to legacy rules and the updated timeline conditions for UCI multiplexing are satisfied, UCI is multiplexed on all PUSCH repetitions ~~without A-CSI reports~~ within an OCC group with inter-slot OCC overlaps with the PUCCH. (Option 3-a)
   1. ~~FFS: PUSCH repetition with A-CSI reports~~

**Agreement**

Remove the FFS in the sub-bullet of 3rd bullet in RAN1#120bis agreement on UCI multiplexing.

1. UE does not expect there are multiple PUCCHs without repetitions in different PUCCH slots with a same or different UCI types other than SR overlapping with multiple PUSCH repetitions in the same OCC group.
   1. ~~FFS: whether the above applies only when at least one of the overlapping PUCCHs result in a UCI being multiplexed on the PUSCH~~

**Agreement**

Confirm RAN1#120bis Working Assumption 2 on UCI multiplexing with revised text:

1. Working Assumption 2: The above agreement applies to PUCCH with repetitions ~~if no additional specification impact is identified~~.

**Agreement**

Confirm RAN1#120bis Working Assumption 1 on UCI multiplexing with revised text:

1. Working assumption 1: The above agreement applies to different priority indexes for PUCCH/PUSCH ~~if no additional specification impact is identified~~.

**Agreement**

A UE is not expected to be configured with frequency hopping for PUSCH repetitions with inter-slot OCC.

**Agreement**

Alt 2. For PUSCH grouping with inter slot OCC, the integer number of OCC groups is determined as M =N/L, where N is the number of repetitions of PUSCH and L is the OCC length.

An OCC group is defined by L consecutive PUSCH repetitions. OCC Group m includes PUSCH repetition mxL, mxL+1, .., (m+1)xL-1, where m=0,1, .., M-1

#### 2.1.2 Remaining Open issues

None

## 2.2 RAN2

#### 2.2.1 Agreements

#### 2.2.1.1 Decisions during RAN2#129bis

Agreements:

1. We add a sentence saying that the UE can optionally support intended service area provision for MBS broadcast service via NTN.

2. No new UE capability is foreseen for regenerative payload.

**2.2.1.1.1 Downlink coverage enhancement**

Agreements;

1. From SSB extension point of view, RAN2 assumes there is no need to introduce new barring bits

2. We wait for further progress in RAN1 on link level enhancements before further discussing the possible impacts on access barring

3. RAN2 considers to support configuring two different SMTC periodicities (with different offsets) for SMTCs in one frequency layer for idle, inactive and connected mode. We ask RAN4 whether it is feasible to support this in Rel-19 timeframe (also include previous agreement that at any time the UE will not use more SMTCs in parallel than in previous releases).

4. We support configuring more than 4 SMTCs per frequency (e.g. 6) for idle/inactive UEs. It will be up to UE implementation to select which of the SMTCs to consider (send this RAN2 decision to RAN4 for checking)

5. Network can provide assistance information (for Rel-19 UEs, not necessarily supporting DL CE) on the association between SMTC and location to help UE to perform SMTC selection for idle/inactive mode. FFS on the details of location information, e.g. serving cell SSB index, reference location, etc. In any case it is up to UE implementation on how to utilize the assistance information for SMTC selection in idle/inactive mode.

**2.1.1.1.2 Uplink capacity/throughput enhancement**

Agreements;

1. There is no need to introduce dedicated access control mechanism for OCC capable UEs

**2.1.1.1.3 Support of Broadcast**

Agreements:

1. RAN2 understands the Intended service areas of all MBS broadcast services of the current serving cell that need to be geo-fenced will be included in the new SIBxx (no spec impacts)

2. If UE knows it’s not in any intended service areas of any MBS services the UE is interested into, the UE may not need to acquire MCCH

3. If no intended service area is explicitly indicated (e.g. in SIBxx) for a MBS service the UE is interested into, existing behavior applies.

4. The field warningAreaCoordinates is included in SIB6 while the field warningAreaCoordinatesSegment is included in SIB7 for ETWS primary/secondary notification to indicate Warning Area Coordinates IE.

**2.1.1.1.4 Support of Regenerative payload**

Agreements:

1. Specific configurations of common TA and Kmac in regenerative architecture are not captured in the specs.

#### 2.2.1.1 Decisions during RAN2#130

Agreements:

1. Introduce support for SMTC enhancements in idle/inactive mode in a backwards compatible manner. FFS signalling details (e.g., new field or extension of SMTC4).

2. Introduce mapping between a MBS broadcast session (TMGI) and ISA ID(s) extending MBS-SessionInfoList to avoid signaling overhead (duplication of TMGIs).

Agreements:

1. Capture in a Note in Stage 2 that when using ISA(s) for MBS broadcast service reception or MBS service continuity, it is up to UE implementation how to determine if it is in the ISA(s) of MBS broadcast service or not.

Agreements:

1. Implementation of ETWS geo-fencing and PWS UE capability for NTN is added to the PWS feature

**2.2.1.1.1 Downlink coverage enhancement**

Agreements:

1. the maximum configured SMTCs per frequency for idle/inactive UEs is 6 (can come back if we find and issue)

2. To support SMTC enhancements for DL CE UE, introduce a new SMTC list instead of extending legacy smtc4list (can consider signalling optimizations for the new list to refer to the content of smtc4list to avoid signalling duplications)

3. We introduce a location-based SMTC selection procedure where each SMTC can be associated with a reference location of the intended neighbor cells that need to be measured by the UE. FFS if also an SSB-index based SMTC selection is supported

4. No enhancement for cell selection/reselection for DL CE is pursued (can re-discuss this if we will finally introduce a new barring scheme)

Working Assumption:

1. We introduce a mechanism to assist the NW to configure the SMTCs in connected mode, according to one of the following 2 options:

Alt 1: UE provide the closest N reference locations/neighbor cells to network.

Alt 2: UE reports the selected SMTCs from configured SMTC set to network.

We continue in the next meeting on whether to confirm the WA (and go for either Alt1 or Alt2) or whether we don’t introduce any enhancement (i.e. not confirm the WA)

**2.1.1.1.2 Uplink capacity/throughput enhancement**

None

**2.1.1.1.3 Support of Broadcast**

Agreements:

1. Do not introduce service area information specific for FSAI in SIB21.

2. Do not introduce service area per neighbour cell in MCCH

3. RAN2 assumes that the ISA can be valid for all the frequencies providing the MBS session

4. The new SIBxx containing MBS ISA(s) can be cell or area specific, which is up to NW implementation (No specs change).

**2.1.1.1.4 Support of Regenerative payload**

None

#### 2.2.2 Remaining Open issues

**NR-NTN downlink coverage enhancement**

* Define procedures and related signalling for system-level power sharing following RAN1 conclusions and related signalling for link-level enhancements following RAN1 conclusion

**NR-NTN uplink capacity/throughput**

* Define necessary related procedures and signalling following RAN1 conclusions

**Support of broadcast**

* SIB content definition for intended service area and related procedures

## 2.3 RAN3

#### 2.3.1 Agreements

#### 2.3.1.1 Decisions during RAN3#127bis

Endorsed CRs

* R3-251560 (BL CR to 38.410) Introduce NG Removal procedure (CMCC, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Qualcomm, Xiaomi, LG Electronics, China Telecom, Samsung, ZTE, NEC, ETRI) CR0051r3, TS 38.410 v18.2.0, Rel-19, Cat. B
* R3-251561 (BL CR to 38.300) Support for Regenerative Payload and MBS broadcast in NR NTN (Ericsson, Thales, Deutsche Telekom, Nokia, ESA, CATT, ZTE, Sateliot, Huawei, Dish Networks, Echostar, Eutelsat Group, Xiaomi, Samsung, CMCC, LG Electronics, NEC, Lenovo, ETRI) DraftCR
* R3-251562 Support for Regenerative Payload and MBS broadcast in NR NTN (CATT, Thales, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Qualcomm, Samsung, Xiaomi, CMCC, China Telecom, Jio, LG Electronics, NEC, ETRI, SES, ESA) CR1212r5, TS 38.413 v18.5.0, Rel-19, Cat. B

**2.3.1.1.1 Support MBS Broadcast service**

Agreed Text Proposals

* R3-252343 (TP to BL CR for TS 38.413) Update on the support of MBS Broadcast Service （Nokia, Nokia Shanghai Bell, Qualcomm, Huawei, Ericsson, Samsung, CATT, ZTE, NEC）

**2.3.1.1.2 Support of Regenerative payload**

Agreed Text Proposals

* R3-252453 (TP to BL CR for TS 38.300) Support of feeder link switch (CATT, Samsung, Huawei, Nokia, Nokia Shanghai Bell, Ericsson, ZTE Corporation, LG Electronics, NEC, CMCC, Xiaomi, China Telecom, Jio)
* R3-252454 (TP for TS 38.300) Discussion on Hard FLSO and RRC Inactive state in NR NTN Regenerative Payload (Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Xiaomi, China Telecom)
* R3-252416 (TPs to BL CR 38.410) Introduce NG Removal Function (CMCC, Samsung, ZTE, CATT)
* R3-252409 (TP to BL CR for TS 38.413) Enhancement to support hard FLSO (Nokia, Nokia Shanghai Bell, Qualcomm, Xiaomi, China Telecom)
* R3-252452 (TP for TS 38.300) Support of regenerative payload - Stage 2 on TNL management (Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Xiaomi, CATT, Samsung, CMCC, ZTE Corporation, Qualcomm Incorporated, NEC, China Telecom, LG Electronics)

Other decisions

* **Support RRC\_INACTIVE UE in NTN by implementation in R19.**
* **No enhancements on location based CHO for NTN in R19.**
* **Whether to support NG suspend/Resume?**
* **When the on-board gNB performs feeder link switchover to the new NTN Gateway, gNB could notifies the AMF about the new DL NG-U TNL Information through Path Switch Request or PDU Session Resource Modify Indication message?**
* **Proposal 2, in case of the TNL addresses are changed due to feeder link switch over, existing procedures may be used.**
* **Proposal 3bis, Further check the functionality: in case of hard feeder link switch over, the 5GC suspends or resumes the DL signalling/data transmission(s) to the gNB based on the new indicator in RAN configuration update, FFS on the relationship with respect to NG suspend/resume (if any).**
* **No new NGAP suspend/resume procedures in R19**
* **RAN3 will not discuss the NTN PWS unless request by other WGs in R19.**

#### 2.3.1.1 Decisions during RAN3#128

Endorsed as BL CRs:

* R3-253093 (BL CR to 38.300) Support for Regenerative Payload and MBS broadcast in NR NTN (Ericsson, Thales, Deutsche Telekom, Nokia, ESA, CATT, ZTE, Sateliot, Huawei, Dish Networks, Echostar, Eutelsat Group, Xiaomi, Samsung, CMCC, LG Electronics, NEC, Lenovo, ETRI) draftCR
* R3-253094 (BL CR to 38.410) Introduce NG Removal procedure (CMCC, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Qualcomm, Xiaomi, LG Electronics, China Telecom, Samsung, ZTE, NEC, ETRI) CR0051r5, TS 38.410 v18.2.0, Rel-19, Cat. B
* R3-253095 Support for Regenerative Payload and MBS broadcast in NR NTN (CATT, Thales, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Qualcomm, Samsung, Xiaomi, CMCC, China Telecom, Jio, LG Electronics, NEC, ETRI, SES, ESA) CR1212r7, TS 38.413 v18.5.0, Rel-19, Cat. B

**2.3.1.1.1 Support MBS Broadcast service**

Endorsed text proposals:

* R3-253945 (TP to BLCR for TS 38.413) Further discussion of MBS broadcast service and mapped cell and TAI pre-reconfiguration (Huawei)

**2.3.1.1.2 Support of Regenerative payload**

**WA: For regenerative payload, an indication to suspend or resume NG connection may be sent to AMF from gNB in the RAN Configuration Update procedure.**

Endorsed text proposals:

* R3-253236 (TP to BL CR 38.300) Clarification on NG Removal (ZTE Corporation)

#### 2.3.2 Remaining Open issues

**Support of NG Suspend/Resume for Regenerative Payload**

* Check the use cases including Hard Feederlink Switch, other use cases to be further justified.

## 2.4 RAN4

#### 2.4.1 Agreements

#### 2.4.1.1 Decisions during RAN4#114bis

**2.4.1.1.1 Main session**

None

**2.4.1.1.2 BDaT session**

Agreed documents

* R4-2504706 Draft CR to TS 38.108: Correction of Regenerative Payload Figures NEC Europe Ltd, THALES
* R4-2504708 Way Forward for [114bis][309] NR\_NTN\_Ph3\_General\_UE\_SAN\_RF Qualcomm

**2.4.1.1.3 RRM session**

Agreed documents

* R4-2504967 Ad-hoc minutes on RRM requirements for NR\_NTN\_Ph3 Qualcomm, CATT
* R4-2504912 WF on RRM requirements for NR\_NTN\_Ph3\_Part1 CATT
* R4-2504913 WF on RRM requirements for NR\_NTN\_Ph3\_Part2 Qualcomm

Agreement:

* + The legacy requirements and applicable conditions can be reused as baseline:
    - Paging reception requirements in RRC\_IDLE/ RRC\_INACTIVE state
    - Handover interruption time
    - Random access
    - SA: RRC Connection Release with Redirection
    - Scheduling availability of UE performing intra/inter measurements

Agreement:

* Option 1: agree on the principle below and further discuss the wording in the CR:
  + - For RACH-based HO, RACH-less HO, Time/location-based CHO without L3 measurement and Satellite switching with re-synchronization, following applicability rules to adapt HD-FDD case should be added:
      * For RedCap NTN UE with HD-FDD, the requirements are met provided that
* SSB is available at the UE once every SMTC period during Tsearch
* One SSB is available during T∆
* One SSB is available during TIU
  + - For Time/location-based CHO with L3 measurement, following applicability rules to adapt HD-FDD case should be added:
      * For RedCap NTN UE with HD-FDD, the requirements are met provided that
* One SSB is available during T∆
* One SSB is available during TIU
* Option 2: No spec impact

Agreement:

* + - For Feature 25-1 (*parallelSMTC*), not differentiate 1Rx and 2Rx RedCap UEs for this UE capability.
    - RedCap UE is **mandatory** to support parallel measurements on **2 SMTC-s** for a single frequency carrier
      * ‘Parallel’ means the SMTCs are TDM with proximity distance.

Agreement:

* + - **Optional** feature 25-3 (*parallelMeasurementGap-r17*) is applicable for (e)RedCap UE and is left to UE implementation, RAN4 to define RRM requirements following the same principle of the existing NR NTN requirements.
    - This capability supported by (e)RedCap UEs is not differentiated between 2Rx and 1Rx.

Agreement:

* + - From RAN4 perspective, location-based measurement report trigger is kept **optional** for (e)RedCap UEs with NTN.

Agreement:

* In RRC re-establishment requirements, for case where the SMTC for the inter-frequency carrier is not provided, the value of TSMTC,i is assumed to be 160ms:
  + Discuss the applicability of the requirement for with the updated value of TSMTC,i to 160ms after the related RAN1/2 agreement.

Agreement:

* In RRC re-establishment requirements, for the case SSB Ês/Iot < -8dB and unknown NR cell,
  + Make the following updates
    - Remove Note 1 in Table 6.2C.1.2.1-1 and Table 6.2C.1.2.1-2 for the applicable scenarios, and the value of TSMTC and TSMTC,i is FFS
    - Tidentify\_intra\_NR: MAX (800 ms, [22] x TSMTC) for intra-frequency carrier
    - Tidentify\_inter\_NR,i: MAX (800 ms, [22] x TSMTC,i) for inter-frequency carrier

#### 2.4.1.1 Decisions during RAN4#115

**2.4.1.1.1 Main session**

None

**2.4.1.1.2 BDaT session**

Agreed documents

* R4-2508755 Way Forward for [115][333] NR\_NTN\_Ph3\_demod Ericsson
* R4-2508635 CR to TS 38.108: Correction of Regenerative Payload Figures NEC, THALES, HUAWEI, CATT, Ericsson
* R4-2507759 Draft CR to TS 38.101-5: Introduction of RedCap and eRedCap Qualcomm Incorporated
* R4-2507434 CR for TS 38.181, Introduction on SAN diagram for SAN supporting regenerative payload CATT, NEC, Thales, HUAWEI, Ericsson

**2.4.1.1.3 RRM session**

Agreed documents

* R4-2508379 LS on mandatory gap capability LS out Ericsson

#### 2.4.2 Remaining Open issues

Definition of RF and RRM requirements enabling

* NR-NTN downlink coverage enhancement covering both GSO and NGSO constellations operating in FR1-NTN or FR2-NTN
* NR-NTN uplink capacity/throughput enhancement
* Support of regenerative payload
* Support of Rel-17 RedCap and Rel-18 eRedCap UEs with NR NTN operating in FR1-NTN bands

## 3. Detailed progress in SA/CT WGs since last TSG meeting (for all involved WGs)

NOTE: This section only needs to be filled in for WI/SIs where there is a corresponding relevant WI/SI in SA/CT.

## 3.1 SA2

#### 3.1.1 Agreements with cross-TSG impacts

#### 3.1.2 Remaining Open issues with cross-TSG impacts

NOTE: This section should also flag any critical dependencies that need TSG attention.   
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## 4. References

## 4.1 RAN1

**RAN1#120bis meeting, Wuhan, China 7-11th, 2025:**

* R1-2502566 discussion Initial RRC parameters list for Rel-19 NR NTN Phase 3 Rapporteur (THALES)
* R1-2501729 Work Plan Work plan for Rel-19 NR\_NTN\_Ph3 THALES, CATT
* R1-2501842 discussion RAN1 agreements for NR NTN Phase 3 up to RAN1#120 Rapporteur (THALES)
* R1-2502056 Work Plan Work plan for WID: introduction of IoT-NTN TDD mode Iridium Satellite LLC
* R1-2503127 discussion Summary#1 of discussions on RRC parameters for Rel-19 NR NTN Phase 3 Moderator (Thales)
* R1-2503128 discussion Summary#2 of discussions on RRC parameters for Rel-19 NR NTN Phase 3 Moderator (Thales)
* R1-2503115 other Session notes for 9.11 (Non-Terrestrial Networks for NR Phase 3 and Internet of Things Phase 3) Ad-Hoc Chair (Huawei)
* R1-2502082 discussion NR-NTN downlink coverage enhancement NEC
* R1-2502173 discussion Discussion on NR-NTN DL coverage enhancement CMCC
* R1-2502188 discussion NR-NTN downlink coverage enhancement InterDigital, Inc.
* R1-2502130 discussion Discussion on downlink coverage enhancements Fujitsu
* R1-2502219 discussion Discussion on downlink coverage enhancements for NR NTN Huawei, HiSilicon
* R1-2502265 discussion Discussion on NR-NTN downlink coverage enhancement OPPO
* R1-2501841 discussion On NR-NTN downlink coverage enhancement Ericsson
* R1-2501847 discussion Discussion on downlink coverage enhancements for NR NTN CCU
* R1-2501899 discussion Discussion on DL coverage enhancement for NR NTN ZTE Corporation, Sanechips
* R1-2501890 discussion Discussion on downlink coverage enhancement for NR NTN Fraunhofer IIS, Fraunhofer HHI
* R1-2501972 discussion Discussion on downlink coverage enhancement for NR NTN CATT
* R1-2502031 discussion Further Discussion on NR NTN downlink coverage enhancement China Telecom
* R1-2501725 discussion FL Summary #1: NR-NTN downlink coverage enhancements Moderator (THALES)
* R1-2501726 discussion FL Summary #2: NR-NTN downlink coverage enhancements Moderator (THALES)
* R1-2501727 discussion FL Summary #3: NR-NTN downlink coverage enhancements Moderator (THALES)
* R1-2501728 discussion FL Summary #4: NR-NTN downlink coverage enhancements Moderator (THALES)
* R1-2501723 discussion NR NTN Downlink coverage enhancements THALES
* R1-2501880 discussion Discussion on NR-NTN downlink coverage enhancement Spreadtrum, UNISOC
* R1-2501822 discussion Discussion on NR-NTN downlink coverage enhancement vivo
* R1-2502559 discussion NR-NTN Downlink Coverage Enhancement Panasonic
* R1-2502549 discussion Discussion on NR-NTN downlink coverage enhancement TCL
* R1-2502532 discussion Discussions on downlink coverage enhancements Nokia, Nokia Shanghai Bell
* R1-2502629 discussion On NR-NTN Downlink Coverage Enhancement Apple
* R1-2502454 discussion Discussion on NR-NTN downlink coverage enhancement Xiaomi
* R1-2502383 discussion Discussion on downlink coverage enhancement for NR-NTN Samsung
* R1-2502519 discussion Discussion on NR-NTN downlink coverage enhancement ETRI
* R1-2502488 discussion Discussion on downlink coverage enhancement for NR NTN Baicells Technologies Co. Ltd
* R1-2502473 discussion Discussion on DL coverage enhancements for NR-NTN NICT
* R1-2502902 discussion Discussion on Downlink Coverage Enhancement for NR NTN Google Korea LLC
* R1-2502920 discussion Discussion on Downlink Coverage Enhancements for NR NTN CEWiT
* R1-2502822 discussion Discussion on downlink coverage enhancement for NR NTN Lenovo
* R1-2502815 discussion Discussion on NR-NTN downlink coverage enhancement LG Electronics
* R1-2502779 discussion Discussion on DL coverage enhancement for NR-NTN NTT DOCOMO, INC.
* R1-2502716 discussion NR-NTN downlink coverage enhancement MediaTek Inc.
* R1-2502854 discussion Downlink coverage enhancement for NR NTN Qualcomm Incorporated
* R1-2502727 discussion Discussion on downlink coverage enhancement for NR-NTN CSCN
* R1-2502695 discussion Discussion on NR-NTN downlink coverage enhancement HONOR
* R1-2502696 discussion Discussion on support of (e)RedCap UEs in NR NTN HONOR
* R1-2502855 discussion Support of Redcap and eRedcap UEs in NR NTN Qualcomm Incorporated
* R1-2502717 discussion Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands MediaTek Inc.
* R1-2502780 discussion Discussion on support of RedCap and eRedCap UEs in FR1-NTN NTT DOCOMO, INC.
* R1-2502816 discussion Discussion on support of (e)RedCap UEs with NR-NTN operating in FR1-NTN bands LG Electronics
* R1-2502883 discussion Support of RedCap and eRedCap UEs in NR NTN Nordic Semiconductor ASA
* R1-2502924 discussion Discussion on support of RedCap/eRedCap UEs in NTN CAICT
* R1-2502520 discussion Discussion on HD UEs with NR NTN ETRI
* R1-2502384 discussion Discussion on support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Samsung
* R1-2502455 discussion Discussion on the support of Redcap and eRedcap UEs in NR NTN Xiaomi
* R1-2502630 discussion Discussion on support of RedCap UEs with NR NTN operation Apple
* R1-2502651 discussion Support of (e)RedCap UEs with NR NTN Sharp
* R1-2502533 discussion Discussion of support for RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Nokia, Nokia Shanghai Bell
* R1-2502573 discussion Discussion on HD-FDD RedCap UEs and eRedCap UEs for FR1-NTN TCL
* R1-2501823 discussion Discussion on support of RedCap and eRedCap UEs with NR-NTN vivo
* R1-2501881 discussion Discussion on support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Spreadtrum, UNISOC
* R1-2501757 discussion Discussion on support of HD-FDD (e)RedCap UEs with NR NTN SageRAN
* R1-2502032 discussion Discussion on Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands China Telecom
* R1-2501973 discussion Discussion on the enhancement of RedCap and eRedCap UEs In NTN CATT
* R1-2501900 discussion Discussion on support of RedCap/eRedCap UEs for NR NTN ZTE Corporation, Sanechips
* R1-2502266 discussion Discussion on supporting of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands OPPO
* R1-2502220 discussion Discussion on HD-FDD RedCap UEs and eRedCap UEs for FR1-NTN Huawei, HiSilicon
* R1-2502305 discussion On HD-FDD Redcap UEs for NTN Ericsson
* R1-2502189 discussion Discussion on half-duplex RedCap issues for NTN FR1 operation InterDigital, Inc.
* R1-2502174 discussion Discussion on the collision issues of HD-FDD Redcap UE in FR1-NTN CMCC
* R1-2503049 discussion Summary #1 for Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Moderator (CATT)
* R1-2503050 discussion Summary #2 for Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Moderator (CATT)
* R1-2503051 discussion Summary #3 for Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Moderator (CATT)
* R1-2503070 LS out Draft LS on requirements for the phase continuity and power consistency for OCC with PUSCH in NR NTN Ph3 Moderator (MediaTek)
* R1-2503094 discussion Feature lead summary #4 of AI 9.11.3 on NR-NTN uplink capacity and throughput enhancements Moderator (MediaTek)
* R1-2502983 discussion Feature lead summary #1 of AI 9.11.3 on NR-NTN uplink capacity and throughput enhancements Moderator (MediaTek)
* R1-2502984 discussion Feature lead summary #2 of AI 9.11.3 on NR-NTN uplink capacity and throughput enhancements Moderator (MediaTek)
* R1-2502985 discussion Feature lead summary #3 of AI 9.11.3 on NR-NTN uplink capacity and throughput enhancements Moderator (MediaTek)
* R1-2503071 LS out LS on requirements for the phase continuity and power consistency for OCC with PUSCH in NR NTN Ph3 RAN1, MediaTek
* R1-2502175 discussion Discussion on the NR-NTN uplink capacity/throughput enhancements CMCC
* R1-2502190 discussion NR-NTN uplink capacity/throughput enhancement InterDigital, Inc.
* R1-2502131 discussion Discussion on uplink capacity/cell throughput enhancement for FR1-NTN Fujitsu
* R1-2502083 discussion NR-NTN uplink capacity/throughput enhancement NEC
* R1-2502221 discussion Discussion on uplink capacity/throughput enhancement for FR1-NTN Huawei, HiSilicon
* R1-2502267 discussion Discussion on NR-NTN uplink capacity/throughput enhancement OPPO
* R1-2501901 discussion Discussion on UL capacity enhancement for NR NTN ZTE Corporation, Sanechips
* R1-2501974 discussion Discussion on UL capacity enhancement for NR NTN CATT
* R1-2502033 discussion Discussion on NR-NTN uplink enhancement China Telecom
* R1-2501730 discussion On uplink capacity enhancement for NR-NTN Ericsson
* R1-2501882 discussion Discussion on NR-NTN uplink capacity/throughput enhancement Spreadtrum, UNISOC
* R1-2501824 discussion Discussion on NR-NTN uplink capacity enhancement vivo
* R1-2502534 discussion Discussion of NR-NTN uplink capacity enhancements Nokia, Nokia Shanghai Bell
* R1-2502589 discussion Discussion on NR-NTN Uplink Capacity/Throughput Enhancement Lenovo
* R1-2502631 discussion On NR-NTN Uplink Capacity Enhancement Apple
* R1-2502456 discussion Discussion on NR-NTN PUSCH capacity enhancement Xiaomi
* R1-2502385 discussion Discussion on uplink capacity/throughput enhancement for NR-NTN Samsung
* R1-2502521 discussion Discussion on NR-NTN uplink capacity/throughput enhancement ETRI
* R1-2502409 discussion Discussion on the NR-NTN uplink capacity/throughput enhancements TCL
* R1-2502903 discussion Discussion on NR-NTN uplink capacity/throughput enhancement Google Korea LLC
* R1-2502817 discussion Discussion on NR-NTN uplink capacity/throughput enhancement LG Electronics
* R1-2502781 discussion Discussion on NR-NTN uplink capacity/throughput enhancement NTT DOCOMO, INC.
* R1-2502718 discussion NR-NTN uplink capacity and throughput enhancements MediaTek Inc.
* R1-2502856 discussion NR-NTN uplink capacity / throughput enhancement Qualcomm Incorporated
* R1-2502697 discussion Discussion on NR-NTN UL capacity/throughput enhancement HONOR
* R1-2502698 discussion Uplink capacity/throughput enhancement for NR-NTN Panasonic

**RAN1#121 meeting, La Valette, Malta, 19-23rd, 2025:**

* R1-2503693 discussion RRC parameters list for Rel-19 NR NTN Phase 3 Rapporteur (THALES)
* R1-2503701 discussion TP on RAN1 additions to CR for TS 38.300 Rapporteur (THALES)
* R1-2503702 discussion RAN1 agreements for NR NTN Phase 3 up to RAN1#120-bis Rapporteur (THALES)
* R1-2504897 other Session notes for 9.11 (Non-Terrestrial Networks for NR Phase 3 and Internet of Things Phase 3) Ad-Hoc Chair (Huawei)
* R1-2504931 discussion Summary of discussions on higher-layers parameters for Rel-19 NR NTN Moderator (THALES)
* R1-2504932 discussion Summary of discussions on TP for RAN1 additions to CR for TS 38.300 Moderator (THALES)
* R1-2504933 LS out Draft LS on NR-NTN TP for TS 38.300 Moderator (THALES)
* R1-2504934 LS out LS on NR-NTN TP for TS 38.300 RAN1, THALES
* R1-2504935 LS out Draft LS on Msg4 PDSCH repetition Moderator (THALES)
* R1-2504936 LS out LS on Msg4 PDSCH repetition RAN1, THALES
* R1-2504954 discussion Summary of discussions on higher-layers parameters for Rel-19 NR NTN Moderator (Thales)
* R1-2504953 discussion FL Summary #5: NR-NTN downlink coverage enhancements Moderator (Thales)
* R1-2504715 discussion List of companies’ proposals on NR-NTN downlink coverage enhancement Moderator (Thales)
* R1-2504583 discussion Discussion on Downlink Coverage Enhancement for NR NTN Google Korea LLC
* R1-2504605 discussion Discussion on Downlink Coverage Enhancements for NR NTN CEWiT
* R1-2504480 discussion Discussion on NR NTN Downlink Enhancements Sharp
* R1-2504561 discussion Discussion on NR-NTN downlink coverage enhancement LG Electronics
* R1-2504545 discussion Discussion on downlink coverage enhancement for NR-NTN CSCN
* R1-2504581 discussion Discussion on DL coverage enhancements for NR-NTN NICT
* R1-2503845 discussion Discussion on NR-NTN DL coverage enhancement CMCC
* R1-2503774 discussion Discussion on downlink coverage enhancement for NR NTN CATT
* R1-2503687 discussion NR NTN Downlink coverage enhancements THALES
* R1-2503689 discussion FL Summary #1: NR-NTN downlink coverage enhancements THALES
* R1-2503690 discussion FL Summary #2: NR-NTN downlink coverage enhancements THALES
* R1-2503691 discussion FL Summary #3: NR-NTN downlink coverage enhancements THALES
* R1-2503692 discussion FL Summary #4: NR-NTN downlink coverage enhancements THALES
* R1-2503635 discussion Discussion on DL coverage enhancement for NR NTN ZTE Corporation, Sanechips
* R1-2503582 discussion Discussion on downlink coverage enhancement for NR-NTN Samsung
* R1-2503308 discussion On NR-NTN downlink coverage enhancement Ericsson
* R1-2503527 discussion Discussion on NR-NTN downlink coverage enhancement Spreadtrum, UNISOC
* R1-2503280 discussion Discussion on downlink coverage enhancements for NR NTN Huawei, HiSilicon
* R1-2503378 discussion Remaining issues on NR-NTN downlink coverage enhancement vivo
* R1-2504410 discussion Downlink coverage enhancement for NR NTN Qualcomm Incorporated
* R1-2504447 discussion Further Discussion on NR NTN downlink coverage enhancement China Telecom
* R1-2504459 discussion Discussion on downlink coverage enhancement for NR NTN Lenovo
* R1-2504005 discussion Discussion on downlink coverage enhancement for NR NTN Baicells Technologies Co. Ltd
* R1-2504001 discussion Discussion on downlink coverage enhancements Fujitsu
* R1-2504515 discussion Discussion on DL coverage enhancement for NR-NTN NTT DOCOMO, INC.
* R1-2504149 discussion Discussion on NR-NTN downlink coverage enhancement ETRI
* R1-2504103 discussion Discussion on NR-NTN downlink coverage enhancement HONOR
* R1-2504109 discussion NR-NTN Downlink Coverage Enhancement Panasonic
* R1-2504170 discussion Discussion on downlink coverage enhancements for NR NTN CCU
* R1-2504199 discussion Discussion on NR-NTN downlink coverage enhancement OPPO
* R1-2504342 discussion On NR-NTN Downlink Coverage Enhancement Apple
* R1-2504270 discussion NR-NTN downlink coverage enhancement MediaTek Inc.
* R1-2504166 discussion Discussion on NR-NTN downlink coverage enhancement TCL
* R1-2504179 discussion Discussions on downlink coverage enhancements Nokia, Nokia Shanghai Bell
* R1-2503930 discussion NR-NTN downlink coverage enhancement NEC
* R1-2503861 discussion Discussion on downlink coverage enhancement for NR NTN Fraunhofer IIS, Fraunhofer HHI
* R1-2503812 discussion NR-NTN downlink coverage enhancement InterDigital, Inc.
* R1-2503895 discussion Discussion on NR-NTN downlink coverage enhancement Xiaomi
* R1-2503896 discussion Discussion on the support of Redcap and eRedcap UEs in NR NTN Xiaomi
* R1-2503813 discussion Discussion on half-duplex RedCap issues for NTN FR1 operation InterDigital, Inc.
* R1-2504180 discussion Discussion of support for RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Nokia, Nokia Shanghai Bell
* R1-2504167 discussion Discussion on HD-FDD Redcap UEs and eRedcap UEs for FR1-NTN TCL
* R1-2504271 discussion Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands MediaTek Inc.
* R1-2504343 discussion Discussion on support of RedCap UEs with NR NTN operation Apple
* R1-2504200 discussion Discussion on supporting of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands OPPO
* R1-2504104 discussion Discussion on support of (e)RedCap UEs in NR NTN HONOR
* R1-2504150 discussion Discussion on HD UEs with NR NTN ETRI
* R1-2504516 discussion Discussion on support of RedCap and eRedCap UEs in FR1-NTN NTT DOCOMO, INC.
* R1-2504432 discussion Support of (e)RedCap UEs with NR NTN Sharp
* R1-2504411 discussion Support of Redcap and eRedcap UEs in NR NTN Qualcomm Incorporated
* R1-2503379 discussion Remaining issues on support of RedCap and eRedCap UEs with NR-NTN vivo
* R1-2503281 discussion Discussion on HD-FDD RedCap UEs and eRedCap UEs for FR1-NTN Huawei, HiSilicon
* R1-2503528 discussion Discussion on support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Spreadtrum, UNISOC
* R1-2503337 discussion On HD-FDD Redcap UEs for NTN Ericsson
* R1-2503325 discussion Discussion on support of HD-FDD (e)RedCap UEs with NR NTN SageRAN
* R1-2503583 discussion Discussion on support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Samsung
* R1-2503636 discussion Discussion on support of RedCap/eRedCap UEs for NR NTN ZTE Corporation, Sanechips
* R1-2503775 discussion Discussion on the enhancement of RedCap and eRedCap UEs In NTN CATT
* R1-2503846 discussion Discussion on the collision issues of HD-FDD Redcap UE in FR1-NTN CMCC
* R1-2504544 discussion Support of RedCap and eRedCap UEs in NR NTN Nordic Semiconductor ASA
* R1-2504562 discussion Discussion on support of (e)RedCap UEs with NR-NTN operating in FR1-NTN bands LG Electronics
* R1-2504557 discussion Discussion on support of RedCap/eRedCap UEs in NTN CAICT
* R1-2504725 discussion Summary #1 for Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Moderator (CATT)
* R1-2504726 discussion Summary #2 for Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Moderator (CATT)
* R1-2504727 discussion Summary #3 for Support of RedCap and eRedCap UEs with NR NTN operating in FR1-NTN bands Moderator (CATT)
* R1-2504563 discussion Discussion on NR-NTN uplink capacity/throughput enhancement LG Electronics
* R1-2504481 discussion Discussion on NR NTN Uplink Enhancements Sharp
* R1-2504155 discussion Discussion on NR-NTN Uplink Capacity/Throughput Enhancement Lenovo
* R1-2504584 discussion Discussion on NR-NTN uplink capacity/throughput enhancement Google Korea LLC
* R1-2504687 discussion Discussion on NR-NTN uplink capacity/throughput enhancement NTT DOCOMO, INC.
* R1-2503847 discussion Discussion on the NR-NTN uplink capacity/throughput enhancements CMCC
* R1-2503776 discussion Discussion on UL capacity enhancement for NR NTN CATT
* R1-2503763 discussion Discussion on the NR-NTN uplink capacity/throughput enhancements TCL
* R1-2503637 discussion Discussion on UL capacity enhancement for NR NTN ZTE Corporation, Sanechips
* R1-2503684 discussion Feature lead summary #1 of AI 9.11.3 on NR-NTN uplink capacity and throughput MediaTek Inc.
* R1-2503685 discussion Feature lead summary #2 of AI 9.11.3 on NR-NTN uplink capacity and throughput MediaTek Inc.
* R1-2503686 discussion Feature lead summary #3 of AI 9.11.3 on NR-NTN uplink capacity and throughput MediaTek Inc.
* R1-2503584 discussion Discussion on uplink capacity/throughput enhancement for NR-NTN Samsung
* R1-2503529 discussion Discussion on NR-NTN uplink capacity/throughput enhancement Spreadtrum, UNISOC
* R1-2503282 discussion Discussion on uplink capacity/throughput enhancement for FR1-NTN Huawei, HiSilicon
* R1-2503380 discussion Remaining issues on NR-NTN uplink capacity enhancement vivo
* R1-2503240 discussion On uplink capacity enhancements for NR-NTN Ericsson
* R1-2504412 discussion NR-NTN uplink capacity / throughput enhancement Qualcomm Incorporated
* R1-2504443 discussion Uplink capacity/throughput enhancement for NR-NTN Panasonic
* R1-2504002 discussion Discussion on uplink capacity/cell throughput enhancement for FR1-NTN Fujitsu
* R1-2504517 discussion Discussion on NR-NTN uplink capacity/throughput enhancement NTT DOCOMO, INC.
* R1-2504151 discussion Discussion on NR-NTN uplink capacity/throughput enhancement ETRI
* R1-2504105 discussion Discussion on NR-NTN UL capacity/throughput enhancement HONOR
* R1-2504055 discussion Discussion on NR-NTN uplink enhancement China Telecom
* R1-2504201 discussion Discussion on NR-NTN uplink capacity/throughput enhancement OPPO
* R1-2504344 discussion On NR-NTN Uplink Capacity Enhancement Apple
* R1-2504272 discussion NR-NTN uplink capacity and throughput enhancements MediaTek Inc.
* R1-2504181 discussion Discussion of NR-NTN uplink capacity enhancements Nokia, Nokia Shanghai Bell
* R1-2503931 discussion NR-NTN uplink capacity/throughput enhancement NEC
* R1-2503814 discussion NR-NTN uplink capacity/throughput enhancement InterDigital, Inc.
* R1-2503909 discussion Discussion on the NR-NTN uplink capacity/throughput enhancements NTPU
* R1-2503897 discussion Discussion on NR-NTN PUSCH capacity enhancement Xiaomi

## 4.2 RAN2

**RAN2#129bis meeting, Wuhan, China 7-11th, 2025:**

* R2-2501770 CR Introduction of LTE TN to NR NTN Mobility UE Capability vivo
* R2-2502192 draftCR Stage 2 Running CR for NR NTN phase 3 THALES
* R2-2502511 discussion Discussion on NR NTN UE capabilities Apple
* R2-2502512 draftCR Draft CR for Rel-19 NR NTN UE capabilities Apple
* R2-2502676 CR Running RRC CR for NR NTN phase 3 Ericsson
* R2-2501774 discussion Discussion on DL Coverage in NTN vivo
* R2-2501798 discussion Discussion on DL coverage enhancement Xiaomi
* R2-2501804 discussion Discussion on downlink coverage enhancement LG Electronics Inc.
* R2-2501842 discussion Discussion on downlink coverage enhancement HONOR
* R2-2501974 discussion NTN downlink coverage enhancements Nokia, Nokia Shanghai Bell
* R2-2502038 discussion Discussions on downlink coverage enhancement Fujitsu
* R2-2502048 discussion Discussion on downlink coverage enhancements in NR NTN ETRI
* R2-2502057 discussion Further discussion on downlink coverage enhancements CATT
* R2-2502072 discussion Discussion on NR NTN downlink coverage enhancements DENSO CORPORATION
* R2-2502195 discussion Discussion on cell barring for NR NTN downlink coverage enhancements THALES
* R2-2502246 discussion Further discussion of NR NTN coverage enhancement China Telecom
* R2-2502315 discussion Downlink coverage enhancement for NTN InterDigital, Europe, Ltd.
* R2-2502328 discussion Discussion on DL coverage enhancement for NTN OPPO
* R2-2502352 discussion Further considerations on NR NTN DL-CE Lenovo
* R2-2502377 discussion Discussion on Downlink Coverage Enhancements Sharp
* R2-2502397 discussion Discussion on supporting location/time-based SMTC selection ITRI
* R2-2502493 discussion SMTC impacts due to NTN downlink coverage enhancements Sony
* R2-2502502 discussion Downlink coverage enhancement NEC
* R2-2502513 discussion DL coverage enhancement in NTN Apple
* R2-2502524 discussion Consideration on downlink coverage enhancements ZTE Corporation, Sanechips
* R2-2502629 discussion Downlink coverage enhancements and different SMTCs TOYOTA Info Technology Center
* R2-2502652 discussion Default extended SSB periodicity Qualcomm Incorporated
* R2-2502667 discussion Discussion on Downlink Coverage Enhancement Samsung
* R2-2502678 discussion DL coverage enhancements Ericsson
* R2-2502739 discussion Analysis on DL coverage enhancements due to extended SSB periodicity CMCC
* R2-2502839 discussion Discussion on DL coverage enhancements Huawei, HiSilicon, Turkcell
* R2-2502863 discussion Discussion on Downlink Coverage Enhancements CSCN
* R2-2502870 discussion Discussion on DL coverage enhancements TCL
* R2-2502947 discussion Further discussion on NTN DL coverage enhancements NERCDTV
* R2-2503055 discussion Report of [AT129bis][303][R19 NR NTN] SMTC enhancements Xiaomi
* R2-2503056 LS out Draft LS on SMTC enhancements Xiaomi
* R2-2503067 LS out Draft LS on SMTC enhancements Xiaomi
* R2-2503068 LS out LS on SMTC enhancements RAN2
* R2-2502284 discussion Discussion on Uplink Capacity/Throughput Enhancement for NTN InterDigital, Europe, Ltd.
* R2-2502329 discussion Discussion on Uplink Capacity Enhancement OPPO
* R2-2502525 discussion Consideration on uplink capacity enhancements ZTE Corporation, Sanechips
* R2-2502612 discussion Discussion on Uplink Capacity Enhancements Huawei, HiSilicon, Turkcell
* R2-2502699 discussion Discussion on uplink capacity/throughput enhancement for NR NTN CMCC
* R2-2502856 discussion Discussion on UL Capacity and Throughput Enhancement Nokia, Nokia Shanghai Bell
* R2-2501775 discussion Remaining Issues on MBS Broadcast in NTN vivo
* R2-2501843 discussion Discussion on the support of broadcast service HONOR
* R2-2502039 discussion Discussions on supporting broadcast service Fujitsu
* R2-2502041 discussion Discussion on providing MBS service area in NTN network OPPO
* R2-2502044 discussion Discussion on the support of broadcast service in NTN ETRI
* R2-2502058 discussion Further discussion on support of broadcast service in NR NTN CATT
* R2-2502064 discussion Further Discussion on Support of MBS Broadcast Service TCL
* R2-2502247 discussion The signaling design of service area for PWS and MBS China Telecom
* R2-2502353 discussion MBS broadcast service continuity in NR NTN Lenovo
* R2-2502354 discussion Further considerations on ETWS support in NR NTN Lenovo
* R2-2502376 discussion Remaining issues on intended service area Sharp
* R2-2502514 discussion Discussion on broadcast service over NTN Apple
* R2-2502526 discussion Consideration on broadcast service ehancements ZTE Corporation, Sanechips
* R2-2502537 discussion Discussion on the support of broadcast service Xiaomi
* R2-2502551 discussion Remaining Aspects of MBS in Rel-19 NR NTN Nokia, Nokia Shanghai Bell
* R2-2502651 discussion MBS broadcast service area information Qualcomm Incorporated
* R2-2502668 discussion Discussion on Broadcast Service Area Samsung
* R2-2502677 discussion Support for broadcast services in NR NTN Ericsson
* R2-2502700 discussion Considerations on broadcast service for NR NTN CMCC
* R2-2502741 discussion Discussion on support for broadcast service in NTN LG Electronics Inc.
* R2-2502946 discussion Discussion on MBS broadcast over NTN Huawei, HiSilicon, China Southern Power Grid, Turkcell
* R2-2503057 discussion Report of [AT129bis][304][R19 NR NTN] Service continuity Apple
* R2-2502494 discussion Satellite switch with re-sync in regenerative payload Sony
* R2-2502630 discussion Regenerative payload for NTN for NR Ph3 TOYOTA Info Technology Center
* R2-2502885 discussion Regenerative payload Ericsson

**RAN2#130 meeting, La Valette, Malta, 19-23rd, 2025:**

* R2-2504170 discussion Open issues of Rel-19 NR NTN UE capabilities Apple
* R2-2504171 draftCR Draft CR for Rel-19 NR NTN UE capabilities Apple
* R2-2504077 draftCR Running 38.304 CR for NR NTN ZTE Corporation, Sanechips
* R2-2504078 report Remaining 304 open issues for NR NTN ZTE Corporation, Sanechips
* R2-2503358 CR Introduction of LTE TN to NR NTN Mobility UE Capability vivo
* R2-2503463 CR Introduction of LTE TN to NR NTN IDLE mode mobility CATT
* R2-2504096 CR Introduction of stage 2 for LTE TN to NR NTN idle mode mobility Samsung
* R2-2504530 CR Introduction of LTE TN to NR NTN IDLE mode mobility CATT
* R2-2504632 discussion Discussion to align NR NTN k-Mac with IoT NTN TDD k-Mac THALES
* R2-2504629 draftCR Stage 2 Running CR for NR NTN phase 3 THALES
* R2-2504630 discussion Discussion on NTN MBS broadcast description in Stage 2 CR THALES
* R2-2504659 discussion Remaining RRC open issues for NR NTN Rel-19 Ericsson
* R2-2504656 draftCR Running RRC CR for NR NTN phase 3 Ericsson
* R2-2504653 discussion DL coverage enhancements Ericsson
* R2-2504571 discussion Discussion on Downlink Coverage Enhancements CSCN, Huawei, HiSilicon, ZTE corporation, Sanechips, CATT
* R2-2503671 discussion The consideration of location based SMTC in NR NTN China Telecom
* R2-2503926 discussion Discussion on NTN downlink coverage enhancement Nokia, Nokia Shanghai Bell
* R2-2503905 discussion Further considerations on NR NTN DL-CE Lenovo
* R2-2503884 discussion Discussion on NR NTN downlink coverage enhancements DENSO CORPORATION
* R2-2503352 discussion Further Discussion on DL Coverage in NTN vivo
* R2-2503495 discussion Discussion on DL coverage enhancement Xiaomi
* R2-2503559 discussion Discussions on downlink coverage enhancement Fujitsu
* R2-2503458 discussion Discussion on downlink coverage enhancements CATT
* R2-2503459 discussion Discussion on the need of cell (re)selection enhancement for DL CE CATT
* R2-2504079 discussion Consideration on downlink coverage enhancements ZTE Corporation, Sanechips
* R2-2504057 discussion SMTC impacts due to NTN downlink coverage enhancements Sony
* R2-2504035 discussion Details on SMTC enhancement NEC
* R2-2504010 discussion Remaining issues on DL CE in NR NTN ETRI
* R2-2503943 discussion Discussion on DL coverage enhancements Huawei, HiSilicon, Turkcell
* R2-2503958 discussion Discussions on the assistance information for supporting location-based SMTC selection ITRI
* R2-2504006 discussion Discussion on DL coverage enhancement for NTN OPPO
* R2-2504172 discussion DL coverage enhancement in NTN Apple
* R2-2504178 discussion Downlink coverage enhancement for NTN InterDigital Washington DC
* R2-2504207 discussion Open issues on Downlink Coverage Enhancement Samsung
* R2-2504400 discussion Analysis on DL coverage enhancements due to extended SSB periodicity CMCC
* R2-2504357 discussion Discussion on Downlink Coverage Enhancements Sharp
* R2-2504312 discussion Discussion on beam hopping with multiple SMTC offsets Qualcomm Incorporated
* R2-2504595 discussion Discussion on downlink coverage enhancement LG Electronics Inc.
* R2-2504506 discussion Further consideration on downlink coverage enhancements NERCDTV
* R2-2504511 discussion Discussion on UL Capacity and Throughput Enhancement Nokia, Nokia Shanghai Bell
* R2-2504276 discussion Discussion on Uplink Capacity Enhancements Huawei, HiSilicon, Turkcell
* R2-2504391 discussion Discussion on uplink capacity/throughput enhancement for NR NTN CMCC
* R2-2504352 discussion On RAN2 aspects for Uplink OCC Samsung
* R2-2504183 discussion Discussion on Uplink Capacity/Throughput Enhancement for NTN InterDigital Washington DC
* R2-2504080 discussion Consideration on uplink capacity enhancements ZTE Corporation, Sanechips
* R2-2504081 discussion Consideration on broadcast service ehancements ZTE Corporation, Sanechips
* R2-2504063 discussion Discussion on the remaining issues for the intended service area Xiaomi
* R2-2504173 discussion Discussion on broadcast service continuity over NTN Apple, Lenovo, ZTE Corporation, Sanechips, Samsung, Huawei, HiSilicon
* R2-2504134 discussion Open issues for MBS in Rel-19 NR NTN Nokia, Nokia Shanghai Bell
* R2-2504208 discussion Open issues on Broadcast service area Samsung
* R2-2504201 discussion Remaining issues for MBS service continuity over NTN Continental Automotive
* R2-2504147 discussion Discussion on MBS broadcast over NTN Huawei, HiSilicon, Turkcell
* R2-2504392 discussion Considerations on broadcast service for NR NTN CMCC
* R2-2504477 discussion Discussion on the support of broadcast service HONOR
* R2-2504311 discussion MBS broadcast service continuity Qualcomm Incorporated
* R2-2504356 discussion Remaining issues on intended service area Sharp
* R2-2504421 discussion Discussion on Supporting of MBS Broadcast Service TCL
* R2-2504529 discussion Discussion on support for broadcast service in NTN LG Electronics Inc.
* R2-2503460 discussion Further discussion on support of broadcast service in NR NTN CATT
* R2-2503560 discussion Discussions on supporting broadcast service Fujitsu
* R2-2503353 discussion Remaining Issues on MBS Broadcast Provision in NTN vivo
* R2-2503906 discussion Some remaining issues for MBS broadcast in NR NTN Lenovo
* R2-2503907 discussion Further considerations on ETWS support in NR NTN Lenovo
* R2-2503748 discussion Remaining issues on the support of broadcast service in NTN ETRI
* R2-2503749 discussion Discussion on providing MBS service area in NTN network OPPO
* R2-2503672 discussion The signaling design of service area for PWS China Telecom
* R2-2504652 discussion Support for broadcast services in NR NTN Ericsson
* R2-2504662 discussion MBS signalling details in NR NTN Ericsson
* R2-2504064 discussion Discussion on the t-service for the regenerative payload Xiaomi
* R2-2504058 discussion Satellite switch with re-sync in regenerative payload Sony
* R2-2503986 discussion Regenerative payload for NTN for NR Ph3 TOYOTA ITC
* R2-2504033 discussion Stage 2 updates for regenerative payload NEC

## 4.3 RAN3

**RAN3#127bis meeting, Wuhan, China 7-11th, 2025:**

* R3-251560 CR (BL CR to 38.410) Introduce NG Removal procedure CMCC, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Qualcomm, Xiaomi, LG Electronics, China Telecom, Samsung, ZTE, NEC, ETRI
* R3-252524 CR (BL CR to 38.410) Introduce NG Removal procedure CMCC, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Qualcomm, Xiaomi, LG Electronics, China Telecom, Samsung, ZTE, NEC, ETRI
* R3-251561 draftCR (BL CR to 38.300) Support for Regenerative Payload and MBS broadcast in NR NTN Ericsson, Thales, Deutsche Telekom, Nokia, ESA, CATT, ZTE, Sateliot, Huawei, Dish Networks, Echostar, Eutelsat Group, Xiaomi, Samsung, CMCC, LG Electronics, NEC, Lenovo, ETRI
* R3-252523 draftCR (BL CR to 38.300) Support for Regenerative Payload and MBS broadcast in NR NTN Ericsson, Thales, Deutsche Telekom, Nokia, ESA, CATT, ZTE, Sateliot, Huawei, Dish Networks, Echostar, Eutelsat Group, Xiaomi, Samsung, CMCC, LG Electronics, NEC, Lenovo, ETRI
* R3-251562 CR Support for Regenerative Payload and MBS broadcast in NR NTN CATT, Thales, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Qualcomm, Samsung, Xiaomi, CMCC, China Telecom, Jio, LG Electronics, NEC, ETRI, SES, ESA
* R3-252525 CR Support for Regenerative Payload and MBS broadcast in NR NTN CATT, Thales, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Qualcomm, Samsung, Xiaomi, CMCC, China Telecom, Jio, LG Electronics, NEC, ETRI, SES, ESA
* R3-251712 Work Plan Updated work plan for NR\_NTN\_Ph3 CATT, Thales
* R3-251685 discussion (TP for TS 38.413) Discussion on NR NTN supporting MBS broadcast service NEC
* R3-251890 discussion Further discussion on NTN broadcast service supporting ZTE Corporation
* R3-251729 other (TP to BL CR for TS 38.300 and TS 38.413) Update on the support of MBS Broadcast Service Nokia, Nokia Shanghai Bell, Qualcomm
* R3-252343 other (TP to BL CR for TS 38.413) Update on the support of MBS Broadcast Service Nokia, Nokia Shanghai Bell, Qualcomm, Huawei, Ericsson, Samsung, CATT, ZTE, NEC
* R3-251713 discussion Clarification on MBS broadcast service area CATT
* R3-251811 discussion Remaining issue on support broadcast service for NR NTN Samsung
* R3-252104 discussion Signaling of Intended MBS Broadcast Service Area via NR NTN Jio Platforms (JPL)
* R3-252105 CR Support for Broadcast Service Area Signaling in NGAP Jio Platforms Ltd (JPL)
* R3-251528 LS in Reply LS to LS on reply to LS on OAM requirements to support regenerative payload SA5(Huawei)
* R3-251714 other (TP to NTN BL CRs) Support of Regenerative payload CATT
* R3-252419 other (TP to BL CR for TS 38.300) Support of feeder link switch CATT
* R3-252453 other (TP to BL CR for TS 38.300) Support of feeder link switch CATT, Samsung, Huawei, Nokia, Nokia Shanghai Bell, Ericsson, ZTE Corporation, LG Electronics, NEC, CMCC, Xiaomi, China Telecom, Jio
* R3-251766 discussion Support of Inactive UE mobility in NTN Xiaomi, Qualcomm Incorporated, Nokia, Nokia Shanghai Bell
* R3-251772 other TP for TS 38.300 on NR NTN Regenerative Payload Feeder Link Switch Over Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Xiaomi, CATT
* R3-251784 other (TP for TS 38.300) Discussion on Hard FLSO and RRC Inactive state in NR NTN Regenerative Payload Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Xiaomi, China Telecom
* R3-252408 other (TP to BL CR for TS 38.300) Enhancement to support hard FLSO Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Xiaomi, China Telecom
* R3-252454 other (TP to BL CR for TS 38.300) Enhancement to support hard FLSO Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Xiaomi, China Telecom, CATT, Samsung, ZTE Corporation, LG Electronics, NEC
* R3-251903 discussion Making the Case for Location-Based CHO in Rel-19 Ericsson, Thales, ESA, Inmarsat, Viasat, Jio Platforms Limited, Intelsat
* R3-252180 other (TPs to BL CR 38.410) Introduce NG Removal Function CMCC, Samsung, ZTE, CATT
* R3-252416 other (TPs to BL CR 38.410) Introduce NG Removal Function CMCC, Samsung, ZTE, CATT, Xiaomi, Nokia, Nokia Shanghai Bell, LG Electronics, NEC, China Telecom
* R3-251594 discussion Further Discussion on Support of NTN Regenerative Architecture TCL
* R3-251686 discussion (TP for TS 38.300) Discussion on regenerative payload enhancement for NR NTN NEC
* R3-251730 other (TP to BL CR for TS 38.413) Discussion on the support of Regenerative payload Nokia, Nokia Shanghai Bell
* R3-251731 other (TP to BL CR for TS 38.413) Enhancement to support hard FLSO Nokia, Nokia Shanghai Bell, Qualcomm, Xiaomi, China Telecom
* R3-252409 other (TP to BL CR for TS 38.413) Enhancement to support hard FLSO Nokia, Nokia Shanghai Bell, Qualcomm, Xiaomi, China Telecom, CATT, Samsung, ZTE Corporation, LG Electronics, NEC
* R3-251744 discussion Discussions on INACTIVE support from moving satellite gNBs LG Electronics Inc.
* R3-251745 other (TP for NR\_NTN\_Ph3 TS 38.300 BL CR) OAM for NG management LG Electronics Inc.
* R3-251767 other (TP for TS 38.300) Support of regenerative payload Xiaomi
* R3-251812 discussion Further discussion on support of regenerative payload for NR NTN Samsung
* R3-251873 other (TP for TS 38.300) Support of regenerative payload China Telecom
* R3-251891 other (TP to BL CR for 38.413) Further discussion on support of regenerative payload ZTE Corporation
* R3-251902 discussion Considerations on NG Interface Management over the Feeder Link Ericsson, Thales, Huawei, Jio Platforms Limited, Intelsat, ESA
* R3-251904 other Location-Based CHO in Rel-19 - XnAP Impacts Ericsson, Thales, ESA, Inmarsat, Viasat, Jio Platforms Limited, Intelsat
* R3-251905 discussion Inactive UEs and NR NTN Ericsson, Jio Platforms Limited, T-Mobile, BT, Thales, Telia Company, China Unicom, KT Corp.
* R3-252009 discussion (TP for TS 38.300) Support of regenerative payload-UE INACTIVE Huawei
* R3-252010 discussion (TP for TS 38.300) Support of regenerative payload - various topics Huawei
* R3-252405 discussion (TP for TS 38.300) Support of regenerative payload - Stage 2 on TNL management Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Xiaomi, CATT, Samsung, CMCC, ZTE Corporation, Qualcomm Incorporated
* R3-252452 other (TP for TS 38.300) Support of regenerative payload - Stage 2 on TNL management Huawei, Ericsson, Nokia, Nokia Shanghai Bell, Xiaomi, CATT, Samsung, CMCC, ZTE Corporation, Qualcomm Incorporated, NEC, China Telecom, LG Electronics
* R3-252073 discussion Tracking Area Handling for Regenerative Satellite Access Ericsson LM
* R3-252074 discussion Study for RRC-INACTIVE UEs in NR NTN Jio Platforms
* R3-252099 discussion Discussion on Support of Inactive UE in NTN ETRI
* R3-252179 discussion Discussion on Support of regenerative payload for NR NTN CMCC
* R3-252211 discussion Discussion on support of regenerative payload for NR NTN CSCN
* R3-252348 discussion CB:#NRNTN Xiaomi

**RAN3#128 meeting, La Valette, Malta, 19-23rd, 2025:**

* R3-254012 draftCR (BL CR to 38.300) Support for Regenerative Payload and MBS broadcast in NR NTN Ericsson, Thales, Deutsche Telekom, Nokia, ESA, CATT, ZTE, Sateliot, Huawei, Dish Networks, Echostar, Eutelsat Group, Xiaomi, Samsung, CMCC, LG Electronics, NEC, Lenovo, ETRI
* R3-254013 CR (BL CR to 38.413) Support for Regenerative Payload and MBS broadcast in NR NTN CATT, Thales, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Qualcomm, Samsung, Xiaomi, CMCC, China Telecom, Jio, LG Electronics, NEC, ETRI, SES, ESA
* R3-253093 draftCR (BL CR to 38.300) Support for Regenerative Payload and MBS broadcast in NR NTN Ericsson, Thales, Deutsche Telekom, Nokia, ESA, CATT, ZTE, Sateliot, Huawei, Dish Networks, Echostar, Eutelsat Group, Xiaomi, Samsung, CMCC, LG Electronics, NEC, Lenovo, ETRI
* R3-253094 CR (BL CR to 38.410) Introduce NG Removal procedure CMCC, Huawei, Nokia, Nokia Shanghai Bell, CATT, Ericsson, Qualcomm, Xiaomi, LG Electronics, China Telecom, Samsung, ZTE, NEC, ETRI
* R3-253095 CR Support for Regenerative Payload and MBS broadcast in NR NTN CATT, Thales, Nokia, Nokia Shanghai Bell, Ericsson, Huawei, ZTE, Qualcomm, Samsung, Xiaomi, CMCC, China Telecom, Jio, LG Electronics, NEC, ETRI, SES, ESA
* R3-253291 discussion Discussion on the remaining issues to support regenerative payload CATT
* R3-253220 discussion Discussion on NR NTN leftover Issues NEC
* R3-253453 discussion On NG Suspension for Hard Feeder Link Switch Ericsson, Thales, Huawei, Jio Platforms Limited, ESA
* R3-253235 discussion Remaining issues for NR NTN ZTE Corporation
* R3-253236 other (TP to BL CR 38.300) Clarification on NG Removal ZTE Corporation
* R3-253237 other (TP to BL CR for 38.413) Support of regenerative payload ZTE Corporation, CATT, Samsung, NEC, CMCC
* R3-253265 other (TP for TS 38.300) Discussion on Hard FLSO in NR NTN Regenerative Payload Qualcomm Incorporated, Nokia, Nokia Shanghai Bell, Xiaomi, China Telecom, LG Electronics
* R3-253284 discussion Further discussion on support of regenerative payload for NR NTN Samsung
* R3-253292 other (TP to BL CR for TS38.300) Support for Regenerative Payload CATT, ZTE Corporation, Samsung, CMCC, NEC
* R3-253918 other (TP to BL CR for TS38.300) Support for Regenerative Payload CATT, ZTE Corporation, Samsung, CMCC, NEC, Nokia, Qualcomm Incorporated, Xiaomi, LG Electronics, CSCN
* R3-253378 other (TP for TS 38.300) Support of regenerative payload Xiaomi
* R3-253379 LS out (Draft LS out) Support of NG transmission suspend resume Xiaomi
* R3-253384 discussion Further discussion on Support of NTN Regenerative payload China Telecom
* R3-253392 other (TP to BL CR for TS 38.413) Enhancement to support hard FLSO Nokia, Nokia Shanghai Bell, Qualcomm, Xiaomi, China Telecom, LG Electronics
* R3-253544 other (TP to BL CR for TS 38.300 and 38.413) Discussion on Suspend/Resume for hard FLSO and the interface management Huawei, Ericsson
* R3-253573 discussion Discussion on Hard Feeder Link Switchover ETRI, Huawei, Ajou University
* R3-253609 discussion Further Discussion on Support of NTN Regenerative Architecture TCL
* R3-253732 discussion Discussion on support of regenerative payload for NR NTN CSCN
* R3-253662 discussion OAM requirement for NG management LG Electronics Inc., Nokia, Nokia Shanghai Bell
* R3-253663 other (TP for NR\_NTN\_Ph3 TS 38.300 BL CR) OAM for NG management LG Electronics Inc., Nokia, Nokia Shanghai Bell
* R3-253545 other (TP to BLCR for TS 38.413) Further discussion of MBS broadcast service and mapped cell and TAI pre-reconfiguration Huawei
* R3-253945 other (TP to BLCR for TS 38.413) Further discussion of MBS broadcast service Huawei, Huawei , Xioami, NEC, CATT, Samsung, ZTE, LGE, Ericsson, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated

## 4.4 RAN4

**RAN4#114bis meeting, Wuhan, China 7-11th, 2025:**

* R4-2503713 draftCR Draft CR to TS 38.108: Correction of Regenerative Payload Figures NEC Europe Ltd, THALES
* R4-2503451 draftCR DraftCR for TS 38.181, Introduction on SAN diagram for SAN supporting regenerative payload CATT
* R4-2503824 other Discussion on simultaneous operation between GNSS and UL transmission in NR NTN vivo
* R4-2503825 LS out Draft reply LS on simultaneous operation between GNSS and UL transmission in NR NTN vivo
* R4-2504707 draftCR DraftCR for TS 38.181, Introduction on SAN diagram for SAN supporting regenerative payload CATT, NEC, Thales, HUAWEI, Ericsson
* R4-2504706 draftCR Draft CR to TS 38.108: Correction of Regenerative Payload Figures NEC Europe Ltd, THALES, HUAWEI, CATT, Ericsson
* R4-2504406 other LS reply on IDC of GNSS Ericsson
* R4-2504403 other RedCap UE RF impact on HD-FDD Ericsson
* R4-2504418 other RedCap NTN UEs Nokia
* R4-2504428 discussion Discussion on Rel-19 NR-NTN RedCap UE RF requirements MediaTek (Hefei) Inc.
* R4-2504550 other On simultaneous operation between GNSS and NR NTN Qualcomm Inc.
* R4-2504551 draftCR Draft CR to TS 38.101-5: Introduction of RedCap and eRedCap Qualcomm Inc.
* R4-2503444 other Discussion on RF requirements for NTN RedCap UE CATT
* R4-2503732 discussion Discussion on NTN (e)Redcap UE RF requirements Spreadtrum,UNISOC
* R4-2503693 other Discussion on the simultaneous operation between GNSS and NR NTN Huawei, HiSilicon
* R4-2504066 discussion GNSS simultaneously operation with NR NTN Sony
* R4-2504552 other NR NTN UL Capacity Enhancements Qualcomm Inc.
* R4-2504404 other Other NTN UE RF impact Ericsson
* R4-2503445 other Discussion on SAN diagram for NTN SAN CATT
* R4-2503450 draftCR DraftCR for TS 38.108, Introduction on SAN diagram for SAN supporting regenerative payload CATT
* R4-2503436 discussion Discussion on (e)RedCap RRM requirements for Rel-19 NTN phase3 CATT
* R4-2503535 discussion On R19 NTN (e)RedCap RRM requirements Apple
* R4-2503669 discussion Discussion on RRM requirements of RedCap in Rel-19 NTN phase 3 Samsung
* R4-2503304 discussion Discussion on (e)RedCap RRM requirements in NTN for NR Phase 3 Xiaomi
* R4-2503348 other Discussion on (e)RedCap RRM requirements of R19 NR NTN OPPO
* R4-2503385 discussion Discussion on the RRM requirement for Redcap over NTN CMCC
* R4-2504112 discussion Discussion on RedCap RRM requirements for NTN for NR Phase 3 Ericsson
* R4-2503793 other Discussion on RRM requirements for RedCap NTN enhancement ZTECorporation,Sanechips
* R4-2504050 discussion Discussion on RRM requirements on (e)RedCap for R19 NR NTN Phase 3 vivo
* R4-2503904 discussion Discussion on RRM requirements for RedCap UE in NTN Huawei, HiSilicon
* R4-2504510 discussion Discussion on requirements for RedCap support in NR NTN Nokia
* R4-2504511 draftCR Draft CR38.133 Inter-RAT E-UTRAN in TN cell reselection for (e)RedCap over NR NTN Nokia
* R4-2504530 discussion RedCap for NTN Qualcomm Incorporated
* R4-2504531 discussion Downlink coverage enhancement for NTN Qualcomm Incorporated
* R4-2504447 discussion Mobility aspects related to extended SSB periodicity in NR over NTN Nokia
* R4-2503905 discussion Discussion on other RRM requirements for Rel-19 NTN Huawei, HiSilicon
* R4-2504051 discussion Discussion on RRM impacts on DL coverage for R19 NR NTN Phase 3 vivo
* R4-2503798 other Discussion on RRM requirements for downlink coverage enhancement ZTECorporation,Sanechips
* R4-2504111 discussion Discussion on other RRM requirements for NTN for NR Phase 3 Ericsson
* R4-2503386 discussion Discussion on the RRM requirement for NTN phase3 CMCC
* R4-2503349 other Discussion on other RRM requirements of R19 NR NTN OPPO
* R4-2503305 discussion Discussion on other RRM core requirements in NTN for NR Phase 3 Xiaomi
* R4-2503670 discussion Discussion on RRM requirements of other aspects in Rel-19 NTN phase 3 Samsung
* R4-2503536 discussion On R19 other NTN RRM requirements Apple
* R4-2503437 discussion Discussion on other RRM requirements for Rel-19 NTN phase3 CATT
* R4-2503631 other Topic summary for [114bis][221] NR\_NTN\_Ph3\_Part1 Moderator (CATT)
* R4-2503632 other Topic summary for [114bis][222] NR\_NTN\_Ph3\_Part2 Moderator (Qualcomm)
* R4-2504708 other Way Forward for [114bis][309] NR\_NTN\_Ph3\_General\_UE\_SAN\_RF Qualcomm
* R4-2504967 other Ad-hoc minutes on RRM requirements for NR\_NTN\_Ph3 Qualcomm, CATT
* R4-2504912 other WF on RRM requirements for NR\_NTN\_Ph3\_Part1 CATT
* R4-2504913 other WF on RRM requirements for NR\_NTN\_Ph3\_Part2 Qualcomm
* R4-2504634 other Topic summary for [114bis][309] NR\_NTN\_Ph3\_General\_UE\_SAN\_RF Moderator (Qualcomm)

**RAN4#1115 meeting, La Valette, Malta, 19-23rd, 2025:**

* R4-2505573 other Topic summary for [115][224] NR\_Mob\_Ph4\_Part1 Moderator (Apple)
* R4-2505574 other Topic summary for [115][225] NR\_Mob\_Ph4\_Part2 Moderator (China Telecom)
* R4-2508281 other Ad-hoc minutes for NR\_Mob\_Ph4 Apple
* R4-2508282 other WF on RRM requirements for NR\_Mob\_Ph4\_Part1 Apple
* R4-2508283 other WF on RRM requirements for NR\_Mob\_Ph4\_Part2 China Telecom
* R4-2505864 discussion On UE feature list for CSI-RS based L1 measurement Apple
* R4-2506460 discussion On UE capability for mobility enhancement phase 4 WI vivo
* R4-2507015 discussion Rel-19 RAN4 UE feature list for NR mobility enhancements Phase 4 Ericsson
* R4-2508394 draftCR DraftCR on event-triggered reporting for CSI-RS based L1 measurement CMCC
* R4-2508395 draftCR Draft CR on event-Triggered Reporting for Intra-Frequency L1 Measurements on Neighboring Cells Ericsson
* R4-2508393 draftCR DraftCR for LTM L1 event-triggered reporting Nokia
* R4-2508392 draftCR draftCR on capabilities for Support of Event Triggering and Reporting Criteria OPPO
* R4-2507016 discussion Discussion on measurements enhancements for purpose of supporting LTM Ericsson
* R4-2507017 draftCR Draft CR on event-Triggered Reporting for Intra-Frequency L1 Measurements on Neighboring Cells Ericsson
* R4-2506730 discussion Discussion on Event triggered L1 measurement reporting Huawei, HiSilicon
* R4-2506589 discussion Discussion on event triggered L1 measurement reporting CMCC
* R4-2506617 draftCR DraftCR on event-triggered reporting for CSI-RS based L1 measurement CMCC
* R4-2506459 discussion On RRM requirements for LTM event-triggered L1-RSRP reporting vivo
* R4-2506500 discussion Discussion on event triggered L1 report for LTM MediaTek Inc.
* R4-2506569 other Discussion on Event triggered L1 measurement reporting ZTE Corporation, Sanechips
* R4-2506104 discussion Discussion on Event triggered L1 measurement reporting for Rel-19 LTM enhancements CATT
* R4-2505875 discussion Discussion on event triggered L1 measurement reporting Apple
* R4-2505710 other On event triggered L1 measurement reporting OPPO
* R4-2505711 draftCR draftCR on capabilities for Support of Event Triggering and Reporting Criteria OPPO
* R4-2505768 discussion Discussion on event triggered L1 measurement reporting for mobility Xiaomi
* R4-2505731 discussion On remaining LTM L1 event-triggered reporting requirements Nokia
* R4-2505732 draftCR DraftCR for LTM L1 event-triggered reporting Nokia
* R4-2505473 discussion RRM Core requirements on event triggered L1 measurement reporting China Telecom
* R4-2508396 draftCR draft CR on CSI-RS based L1 measurement requirement Apple
* R4-2508398 draftCR Draft CR on measurement reporting requirements for CSI-RS based LTM vivo
* R4-2508397 draftCR Draft CR to TS 38.133 on number of CSI-RS, number of cells and number of CSI-RS resources CATT
* R4-2508445 draftCR DraftCR to 38.133 on LTM CSI-RS applicability Nokia
* R4-2508399 draftCR Draft CR on introduction of CSI-RS L1-RSRP measurement MediaTek Inc.
* R4-2508400 draftCR draftCR on measurement restriction for CSI-RS based L1-RSRP ZTE Corporation, Sanechips
* R4-2508401 draftCR Draft CR on scheduling availability of UE during CSI-RS based L1-RSRP measurement Huawei, HiSilicon
* R4-2505474 discussion RRM Core requirements on CSI-RS based L1 measurement China Telecom
* R4-2505769 discussion Discussion on CSI-RS based L1 for mobility Xiaomi
* R4-2505712 other On CSI-RS based L1 measurements OPPO
* R4-2505865 discussion On open issue for CSI-RS based L1 measurement Apple
* R4-2505866 draftCR draft CR on CSI-RS based L1 measurement requirement Apple
* R4-2506105 discussion Discussion on CSI-RS based L1 measurement for Rel-19 LTM enhancements CATT
* R4-2506139 discussion Discussion on CSI-RS measurements core part Nokia
* R4-2506140 draftCR DraftCR to 38.133 on LTM CSI-RS applicability Nokia
* R4-2506107 draftCR Draft CR to TS 38.133 on number of CSI-RS, number of cells and number of CSI-RS resources CATT
* R4-2506577 draftCR draftCR on measurement restriction for CSI-RS based L1-RSRP ZTE Corporation, Sanechips
* R4-2506568 other Discussion on CSI-RS based L1-RSRP measurement ZTE Corporation, Sanechips
* R4-2506501 discussion Discussion on CSI-RS L1 measurement for LTM MediaTek Inc.
* R4-2506502 draftCR Draft CR on introduction of CSI-RS L1-RSRP measurement MediaTek Inc.
* R4-2506461 draftCR Draft CR on measurement reporting requirements for CSI-RS based LTM vivo
* R4-2506458 discussion On RRM requirements for LTM CSI-RS based L1 measurement vivo
* R4-2506590 discussion Discussion on CSI-RS based L1 measurement CMCC
* R4-2506731 discussion Discussion on CSI-RS based L1 measurement Huawei, HiSilicon
* R4-2506732 draftCR Draft CR on scheduling availability of UE during CSI-RS based L1-RSRP measurement Huawei, HiSilicon
* R4-2507018 discussion Discussion on CSI-RS based L1 measurement requirements Ericsson
* R4-2507804 discussion CSI-RS based L1 measurement for LTM Qualcomm Incorporated
* R4-2508405 draftCR DraftCR to 38.133 on conditional Intra-CU LTM China Telecom
* R4-2507805 discussion Conditional LTM Qualcomm Incorporated
* R4-2507134 discussion Discussion on Conditional Intra-CU LTM Nokia
* R4-2506733 discussion Discussion on conditional Intra-CU LTM Huawei, HiSilicon
* R4-2506670 discussion Discussion on intra-CU conditional LTM Ericsson
* R4-2506591 discussion Discussion on conditional intra-CU LTM CMCC
* R4-2506503 discussion Discussion on Conditional LTM MediaTek Inc.
* R4-2506567 other Discussion on Conditional Intra-CU LTM ZTE Corporation, Sanechips
* R4-2506555 discussion Further discussion on Conditional Intra-CU LTM vivo
* R4-2506106 discussion Discussion on conditional Intra-CU LTM for Rel-19 mobility enhancements CATT
* R4-2505794 discussion Discussion on Conditional Intra-CU LTM for NR mobility enhancements Phase 4 Xiaomi
* R4-2505876 discussion Discussion on conditional Intra-CU LTM Apple
* R4-2505475 discussion RRM Core requirements on conditional Intra-CU LTM China Telecom
* R4-2505476 draftCR DraftCR to 38.133 on conditional Intra-CU LTM China Telecom
* R4-2505877 discussion Discussion on RRM performance of NR mobility enhancements Phase 4 Apple
* R4-2505733 discussion On performance requirements for NR mobility enhancements Ph4 Nokia
* R4-2506108 discussion Discussion on Rel-19 NR mobility Phase4 RRM performance requirements CATT
* R4-2506570 other Discussion on performance requirements for LTM ZTE Corporation, Sanechips
* R4-2506504 discussion Discussion on RRM performance requirements for R19 mobility MediaTek Inc.
* R4-2506462 discussion On performance requirements for mobility enh phase 4 vivo
* R4-2506592 discussion Discussion on RRM performance requirements for NR mobility enhancements CMCC
* R4-2506671 discussion Discusion on performance requirement for Rel-19 mobility Ericsson
* R4-2506734 discussion Discussion on performance requirements of mobility enhancement phase 4 Huawei, HiSilicon

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