**3GPP TSG RAN meeting #102 draft RP-232790**

**Edinburgh, Scotland, December 11-15, 2023**

## Status Report to TSG

**Agenda item:** 9.3.4.3

|  |  |
| --- | --- |
| **WI / SI Name** |  |
| included in this status report | Study Item: No | Core part: Yes | Performance part:Yes | Testing part:No |
| **Acronym** | NR\_RF\_FR2\_req\_Ph3 |
| **Unique ID** | 950076 |
| **TSG Tdoc of latest approved WI/SI description (if any)** | RP-222909 |
| **Target Completion Date****(indicate if changed)** | Study Item:  | Core part: Dec. 2023 | Performance part: March 2024 | Testing part:  |
| **Overall Completion level** | Study Item:  | Core part: 100% | Performance Part: 85% | 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** | RAN4 |
| **Rapporteur** | **Name** | Primary: Hisashi OnozawaSecondary: Juan Zhang |
| **Company** | NokiaXiaomi |
| **Email** | hisashi.onozawa@nokia.comzhangjuan8@xiaomi.com |

## 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.*

**Additional explanations/motivations for the time budget changes in the attached Excel table:**

## 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

#### 2.1.2 Remaining Open issues

## 2.2 RAN2

#### 2.2.1 Agreements

#### 2.2.2 Remaining Open issues

## 2.3 RAN3

#### 2.3.1 Agreements

#### 2.3.2 Remaining Open issues

## 2.4 RAN4

#### 2.4.1 Agreements

RAN4#108-bis

UL 256 QAM core

* TP for TR 38.891 on simulation results of phase noise profiles evaluation and MPR for FR2 UL 256QAM is approved [319] .
* Draft CR to 38.101-2 to introduce FR2 UL 256QAM RF requirement is endorsed [367] .
* WF on FR2-1 UL 256QAM requirements is agreed [368] .

UL 256 QAM performance

* WF on 256QAM BS demodulation is approved [362] .

Beam correspondence in RRC\_INACTIVE and initial access

* LS on testability issues of PRACH beam correspondence requirements is agreed [369] .
* WF on Beam correspondence requirements for RRC\_INACTIVE and initial access is approved [370] .

RAN4#109

UL 256 QAM core

* TP for TR 38.891 to capture the simulation results of MPR and introduce the general description for FR2 UL 256 QAM [425] .
* TP for TR 38.891 to correct some simulation results for phase noise profile [389] .
* CR for Rel-18 38.101-2 to introduce FR2-1 UL 256 QAM RF requirements [426] .

UL 256 QAM performance

* UL 256 QAM BS Demodulation is approved in [372] .
* Draft CR to 38.104 to introduce 256QAM PUSCH requirement is endorsed [377] .
* Draft CR to 38.141-2 to introduce 256QAM PUSCH requirement is endorsed [424] .
* Draft CR to 38.104 on FRC for FR2-1 UL 256QAM is endorsed [422] .
* Draft CR to 38.141-2 on FRC for FR2-1 UL 256QAM is endorsed [423] .
* Draft CR to 38.104 to introduce propagation condition is endorsed [413] .
* WF on NR\_RF\_FR2\_req\_Ph3\_Demod is approved [421] .

Beam correspondence in RRC\_INACTIVE and initial access

* TP for TR 38.891 on impact of power control tolerance [427] .
* TP for TR 38.891 on Implementation impact to UE [381] .
* CR to 38.101-1 to introduce beam correspondence requirement for initial access and RRC\_INACTIVE[429] .
* CR to 38.101-3 on beam correspondence requirement for EN-DC/NE-DC [383] .

#### 2.4.2 Remaining Open issues

* UL 256 QAM BS demodulation performance.

## 2.5 RAN5

#### 2.5.1 Agreements

#### 2.5.2 Remaining Open issues

#### 2.5.3 Remaining Open issues with cross-WG dependencies

## 2.6 RAN6

#### 2.6.1 Agreements

#### 2.6.2 Remaining Open issues

## 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 SAx/CTs

#### 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.

## 4. References

NOTE: This can be e.g. a list of all related Tdocs in the affected WGs since last TSG, references to LSs, produced TRs/TSs, the work/study item description or status reports of previous TSGs.

**RAN4#104-e**

1. R4-2211813 Proposals on simulation assumptions for FR2-1 UL 256QAM MPR simulations Nokia, Nokia Shanghai Bell
2. R4-2211915 Beam correspondence for RRC\_INACTIVE and initial access Apple
3. R4-2211992 FR2 beam correspondence for RRC\_INACTIVE and initial access Samsung
4. R4-2212070 UE beam correspondence requirements for RRC\_INACTIVE and initial access Nokia, Nokia Shanghai Bell
5. R4-2212187 Discussion on UL 256QAM for FR2-1 LG Electronics
6. R4-2212306 Beam correspondence requirements for initial access CMCC
7. R4-2212330 On enabling FR2 UL256QAM Qualcomm Incorporated
8. R4-2212331 On initial access beam correspondence Qualcomm Incorporated
9. R4-2212370 Discussion on minimum UE EIRP for UL 256QAM Apple
10. R4-2212371 EVM budget and Phase Noise considerations for 256QAM Apple
11. R4-2212394 Discussion on EVM requirements for FR2-1 UL 256QAM MediaTek Inc.
12. R4-2212498 Link level simulation for FR2 UL 256QAM Huawei, HiSilicon
13. R4-2212590 Draft TR skeleton for for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi
14. R4-2212591 Discussion on UL 256QAM Xiaomi
15. R4-2212592 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
16. R4-2212635 Discussion on FR2 UL256QAM ZTE Corporation
17. R4-2212788 Beam correspondence for RRC\_INACTIVE and initial access Ericsson, Sony
18. R4-2212790 Initial evaluation of FR2 UL 256QAM vivo
19. R4-2212791 Discussion on verification of beam correspondence during initial access vivo
20. R4-2213313 R18 Discussion on FR2 beam correspondence in initial access OPPO
21. R4-2213374 On beam correspondence requirement in RRC\_IDLE or RRC\_INACTIVE for Rel-18 NR FR2 Huawei, HiSilicon
22. R4-2213566 UL 256-QAM simulations for FR2-1 Sony
23. R4-2213761 Workplan for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Nokia, Xiaomi
24. R4-2213970 Initial discussion on enabling the support for 256QAM on UL for FR2-1 Ericsson Limited
25. R4-2214111 Email Discussion Summary for [104-e][133] FR2\_enh\_req\_Ph3 Moderator (Nokia)
26. R4-2214244 Email Discussion Summary for [104-e][133] FR2\_enh\_req\_Ph3 Moderator (Nokia)
27. R4-2214453 WF on UL 256QAM Xiaomi
28. R4-2214454 WF on test metric for BC in RRC\_INACTIVE and initial access

**RAN4#104-bis-e**

1. R4-2215479 beam correspondence requirement for initial access state CMCC
2. R4-2215480 beam correspondence test issues for initial access state CMCC
3. R4-2215511 Beam correspondence requirement applicability Nokia, Nokia Shanghai Bell
4. R4-2215512 UE beam type and DRX implications Nokia, Nokia Shanghai Bell
5. R4-2215513 Beam Correspondence Test Issues Nokia, Nokia Shanghai Bell
6. R4-2215577 Link level simulation results for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
7. R4-2215578 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
8. R4-2215630 Further consideration on BC requirement applicability for IA/RA-SDT/CD-SDT Apple
9. R4-2215631 Discussion on UE beam type and DRX implications Apple
10. R4-2215632 discussion on Beam correspondence test issues Apple
11. R4-2215636 LS on extending beam lock function for testing in initial access Apple
12. R4-2215702 FR2 beam correspondence requirement and test for random access Samsung
13. R4-2215854 On beam correspondence requirements applicability in RRC\_IDLE or RRC\_INACTIVE for Rel-18 NR FR2 Huawei, HiSilicon
14. R4-2215855 On UE beam Type for Rel-18 Inactive Beam Correspondence Huawei, HiSilicon
15. R4-2215856 On beam correspondence test issues in RRC\_IDLE or RRC\_INACTIVE for Rel-18 NR FR2 Huawei, HiSilicon
16. R4-2215920 Link performance on FR2-1 UL 256 QAM LG Electronics France
17. R4-2216128 Feasibility evaluation of FR2 UL 256 QAM vivo
18. R4-2216129 Discussion on requiremnet applicability for beam correspondence vivo
19. R4-2216130 Discussion on beam type and UE requiremnet for beam correspondence during non-RRC\_CONNECTED state vivo
20. R4-2216131 Discussion on test related issue of beam correspondence vivo
21. R4-2216245 Simulation results for UL 256QAM Huawei, HiSilicon
22. R4-2216251 UL 256-QAM simulations for FR2-1 Sony
23. R4-2216252 Views on Beam correspondence for initial access Sony, Ericsson
24. R4-2216348 TR38.891 v 0.1.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
25. R4-2216349 TP for TR 38.891 on link level simulation assumptions for FR2 UL 256QAM Xiaomi
26. R4-2216350 Discussion on UL 256QAM Xiaomi
27. R4-2216351 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
28. R4-2216426 Discussion on FR2 UL 256qam results ZTE Corporation
29. R4-2216438 R18 Discussion on FR2 beam correspondence requirements in initial access OPPO
30. R4-2216439 R18 Discussion on FR2 beam type in initial access OPPO
31. R4-2216440 R18 Discussion on FR2 beam correspondence test in initial access OPPO
32. R4-2216584 FR2-1 UL 256QAM: EVM testing using PTRS Anritsu Limited
33. R4-2216784 On enabling FR2 UL256QAM Qualcomm Incorporated
34. R4-2216785 On initial access beam correspondence Qualcomm Incorporated
35. R4-2216873 Discussion on enabling the support for 256QAM on UL for FR2-1 Ericsson Limited
36. R4-2217009 Email discussion summary for [104-bis-e][130] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
37. R4-2217010 Email discussion summary for [104-bis-e][131] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)
38. R4-2217727 WF on BC in RRC\_INACTIVE and initial access Nokia
39. R4-2217729 WF on UL 256 QAM Xiaomi
40. R4-2217730 TP for TR 38.891 on link level simulation assumptions for FR2 UL 256QAM Xiaomi
41. R4-2217782 Email discussion summary for [104-bis-e][130] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
42. R4-2217783 Email discussion summary for [104-bis-e][131] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)

**RAN4#105**

1. R4-2218040 On enabling FR2 UL256QAM Qualcomm Incorporated
2. R4-2218041 On initial access beam correspondence Qualcomm Incorporated
3. R4-2218299 Beam correspondence requirement applicability Nokia, Nokia Shanghai Bell
4. R4-2218300 UE beam type and DRX implications Nokia, Nokia Shanghai Bell
5. R4-2218301 Beam Correspondence Test Issues Nokia, Nokia Shanghai Bell
6. R4-2218326 Link level simulation results for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
7. R4-2218327 System level simulation results for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
8. R4-2218328 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
9. R4-2218558 FR2 beam correspondence requirement for initial access Samsung
10. R4-2218559 FR2 beam correspondence test for initial access Samsung
11. R4-2218595 Discussion on FR2 UL 256QAM ZTE Corporation
12. R4-2218637 beam correspondence requirement for initial access state CMCC
13. R4-2218638 beam correspondence test issues for initial access state CMCC
14. R4-2218681 Discussion on FR2-1 UL 256QAM LG Electronics France
15. R4-2218689 Further consideration on BC requirement applicability for IA/RA-SDT/CG-SDT Apple
16. R4-2218690 Further consideration on UE beam type and DRX implications for BC Apple
17. R4-2218691 Further consideration on test issue for beam correspondence Apple
18. R4-2218692 LS on beam lock function for BC testing in initial access Apple
19. R4-2218753 UL 256-QAM simulations for FR2-1 Sony
20. R4-2218754 Views on Beam correspondence for initial access Sony, Ericsson
21. R4-2218869 Further evaluation for FR2-1 UL 256QAM based on SLS vivo
22. R4-2218870 Discussion on beam correspondence requirement applicability vivo
23. R4-2218871 Discussion on beam type and implementation agnostic vivo
24. R4-2218872 Discussion on beam correspondence test issues vivo
25. R4-2218940 Discussion on EVM requirements for FR2-1 UL 256QAM MediaTek Korea Inc.
26. R4-2219075 Discussion on UL 256QAM Beijing Xiaomi Software Tech
27. R4-2219115 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Beijing Xiaomi Software Tech
28. R4-2219121 TR38.891 v 0.2.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
29. R4-2219122 TP for TR 38.891 on link level simulation results and system level simulation assumption for FR2 UL 256QAM Xiaomi
30. R4-2219123 Discussion on beam type and DRX implication Xiaomi
31. R4-2219144 Simulation results for UL 256QAM Huawei, HiSilicon
32. R4-2219189 Discussion on beam correspondence requirement and its applicability ZTE Corporation
33. R4-2219596 R18 Discussion on FR2 beam correspondence requirements in IA OPPO
34. R4-2219597 R18 Discussion on FR2 beam type in IA OPPO
35. R4-2219598 R18 Discussion on FR2 beam correspondence test in IA OPPO
36. R4-2219815 On beam correspondence requirements applicability Huawei, HiSilicon
37. R4-2219816 On UE beam Type for Rel-18 Inactive Beam Correspondence Huawei, HiSilicon
38. R4-2219817 On beam correspondence test issues Huawei, HiSilicon
39. R4-2219900 On beam correspondence requirements for RRC\_INACTIVE and initial access MediaTek
40. R4-2219901 On beam type for RRC\_INACTIVE and initial access MediaTek
41. R4-2219902 On beam correspondence requirements test issues for RRC\_INACTIVE and initial access MediaTek
42. R4-2220036 Simulation results for UL 256QAM feasibility study for FR2-1 Ericsson Limited
43. R4-2220109 Topic summary for [105][129] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
44. R4-2220110 Topic summary for [105][130] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)
45. R4-2220517 WF on beam correspondence requirements for initial access and RRC\_inactive mode Nokia
46. R4-2220518 LS on testability for BC testing in initial access Apple, Mediatek
47. R4-2220535 WF on FR2 UL 256QAM Xiaomi
48. R4-2220810 WF on FR2 UL 256QAM Xiaomi
49. R4-2220825 LS on testability for BC testing in initial access Apple, Mediatek

**RAN4#106**

1. R4-2300193 System level simulation results for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
2. R4-2300194 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
3. R4-2300343 On FR2 UL 256QAM Apple
4. R4-2300505 Beam correspondence requirement applicability Nokia, Nokia Shanghai Bell
5. R4-2300506 UE beam type and DRX implicationss Nokia, Nokia Shanghai Bell
6. R4-2300507 Beam correspondence test issues Nokia, Nokia Shanghai Bell
7. R4-2300707 On enabling FR2 UL256QAM Qualcomm Incorporated
8. R4-2300708 On initial access beam correspondence Qualcomm Incorporated
9. R4-2300795 Beam correspondence requirements for initial access CMCC
10. R4-2300796 Beam correspondence test issues for initial access state CMCC
11. R4-2300821 Discussion on FR2-1 UL 256QAM LG Electronics France
12. R4-2300989 Discussion on how to achieve maximum output power in initial access Samsung
13. R4-2301147 UL 256QAM and CPE compensation based on PTRS Anritsu Limited
14. R4-2301179 R18 FR2 beam correspondence requirements in IA OPPO
15. R4-2301180 R18 FR2 beam type in IA OPPO
16. R4-2301181 R18 FR2 beam correspondence test in IA OPPO
17. R4-2301235 Discussion on FR2-1 UL 256QAM ZTE Corporation
18. R4-2301433 Discussion on UE UL 256QAM Huawei, HiSilicon
19. R4-2301569 Further evaluation on FR2 UL 256QAM vivo
20. R4-2301570 Discussion on beam correspondence requirement applicability in initial access vivo
21. R4-2301571 Discussion on beam correspondence requirement for msg1 vivo
22. R4-2301579 On beam correspondence requirements Huawei, HiSilicon
23. R4-2301580 On beam correspondence test issues Huawei, HiSilicon
24. R4-2301607 On beam correspondence test issues MediaTek Inc.
25. R4-2301608 On beam type for beam correspondence requirements for initial access and RRC\_INACTIVE MediaTek Inc.
26. R4-2301609 On correspondence requirements for initial access and RRC\_INACTIVE MediaTek Inc.
27. R4-2301618 TR38.891 v 0.3.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
28. R4-2301619 TP for TR 38.891 on link level simulation results and system level simulation assumption for FR2 UL 256QAM Xiaomi
29. R4-2301620 Discussion on UL 256QAM Xiaomi
30. R4-2301621 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
31. R4-2301928 Views on FR2-1 UL 256QAM MediaTek Korea Inc.
32. R4-2302240 Views on UL 256-QAM for FR2-1 Sony
33. R4-2302249 Views on Beam correspondence for initial access Sony, Ericsson
34. R4-2302337 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
35. R4-2302371 On PTRS correction for EVM test Huawei, HiSilicon
36. R4-2302476 On BC requirement for IA/RA-SDT/CG-SDT Apple
37. R4-2302529 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
38. R4-2302733 Discussion on UE RF requirements for UL 256QAM for FR2-1 Ericsson Limited
39. R4-2302734 SLS results for UL 256QAM feasibility study for FR2-1 Ericsson Limited
40. R4-2302822 Topic summary for [106][129] FR2\_enh\_req\_Ph3\_part1, Nokia
41. R4-2302823 Topic summary for [106][130] FR2\_enh\_req\_Ph3\_part2, Xiaomi
42. R4-2303491 WF on FR2-1 UL 256QAM, Xiaomi
43. R4-2303709 WF on FR2-1 UL 256QAM, Xiaomi
44. R4-2303717 WF on beam correspondence requirements for initial access and RRC\_inactive mode, Nokia

**RAN4#106-bis-e**

1. R4-2304119 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
2. R4-2304197 Beam correspondence requirements for initial access CMCC
3. R4-2304198 Beam correspondence test issues for initial access state CMCC
4. R4-2304310 Beam correspondence requirement for IA/RA-SDT/CG-SDT Apple
5. R4-2304311 Further consideration on test issue for beam correspondence Apple
6. R4-2304312 Introducing beam correspondence requirement for IA/RA-SDT/CG-SDT Apple
7. R4-2304313 Revised WID: NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Apple
8. R4-2304314 LS on testing for beam correspondence Apple
9. R4-2304327 On FR2 UL 256QAM Apple
10. R4-2304473 Beam correspondence requirement applicability Nokia, Nokia Shanghai Bell
11. R4-2304474 UE beam type and DRX implicationss Nokia, Nokia Shanghai Bell
12. R4-2304475 Beam correspondence test issues Nokia, Nokia Shanghai Bell
13. R4-2304601 On enabling FR2 UL256QAM Qualcomm Incorporated
14. R4-2304602 On UBF for initial access beam correspondence Qualcomm Incorporated
15. R4-2304625 TP for TR 38.891: General and Specification impact Apple
16. R4-2304626 TP for TR 38.891: Testing impact Apple
17. R4-2304629 On beam correspondence requirements Huawei, HiSilicon
18. R4-2304630 On beam correspondence test issues Huawei, HiSilicon
19. R4-2304634 MPR evaluation results for FR2-1 UL256QAM PC1 and PC2 LG Electronics France
20. R4-2304689 Discussion on FR2-1 UL 256QAM ZTE Corporation
21. R4-2304699 Views on FR2-1 UL 256QAM MediaTek Korea Inc.
22. R4-2304826 Thoughts on breakthrough of FR2 beam correspondence in initial access Samsung
23. R4-2304827 Further reply LS on testability for beam correspondence in initial access Samsung
24. R4-2305066 TR38.891 v 0.4.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
25. R4-2305067 TP for TR 38.891 on link level simulation results and system level simulation assumption for FR2 UL 256QAM Xiaomi
26. R4-2305068 Discussion on UL 256QAM Xiaomi
27. R4-2305069 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
28. R4-2305070 Discussion on beam correspondence test for RRC\_INACTIVE and initial access Xiaomi
29. R4-2305093 Discussion on FR2 UL 256QAM vivo
30. R4-2305094 Discussion on beam correspondence requirement applicability vivo
31. R4-2305095 Discussion on beam type and requirement of beam correspondence vivo
32. R4-2305096 Discussion on beam correspondence test related issue vivo
33. R4-2305309 UE UL 256QAM Huawei, HiSilicon
34. R4-2305352 Discussion on beam correspondence requirement applicability ZTE Corporation
35. R4-2305683 Requirement applicability for RRC\_INACTIVE and initial access Intel Corporation
36. R4-2305691 UL 256QAM, phase noise profiles and EVM testing Anritsu Limited
37. R4-2305704 On beam correspondence requirement applicability for initial access and RRC\_INACTIVE mode MediaTek Inc.
38. R4-2305705 On UE beam type and DRX implications MediaTek Inc.
39. R4-2305706 On Beam correspondence test issues MediaTek Inc.
40. R4-2305745 Views on UL 256-QAM for FR2-1 Sony
41. R4-2305747 Views on Beam correspondence for initial access Sony, Ericsson
42. R4-2305835 Discussion on UL 256QAM UE RF requirements for FR2-1 Ericsson Limited
43. R4-2306206 Topic summary for [106-bis-e][127] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
44. R4-2306207 Topic summary for [106-bis-e][128] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)
45. R4-2306289 Topic summary for [106-bis-e][127] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
46. R4-2306290 Topic summary for [106-bis-e][128] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)
47. R4-2306600 WF on beam correspondence in initial access and RRC\_INACTIVE Nokia
48. R4-2306601 UE beam type and DRX implicationss Nokia, Nokia Shanghai Bell
49. R4-2306602 TP for TR 38.891: General and Specification impact Apple
50. R4-2306603 WF on FR2-1 UL 256 QAM Xiaomi

**RAN4#107**

1. R4-2307043 UL 256QAM, phase noise profiles and EVM testing Anritsu Limited
2. R4-2307213 On beam correspondence requirements Huawei, HiSilicon
3. R4-2307214 On beam correspondence test issues Huawei, HiSilicon
4. R4-2307231 TP to TR 38.891: System level simulation results for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
5. R4-2307669 On beam correspondence requirement for IA Apple
6. R4-2307670 On testing for beam correspondence Apple
7. R4-2307671 LS on testing for beam correspondence Apple
8. R4-2307673 TP for TR 38.891: General and Specification impact Apple
9. R4-2307674 TP for TR 38.891: Testing impact Apple
10. R4-2307766 Discussion on UE UL 256QAM Huawei, HiSilicon
11. R4-2307846 Discussion on beam correspondence requirement applicability ZTE Corporation
12. R4-2307931 Discussion on FR2-1 UL 256QAM RICHTEK KOREA
13. R4-2307934 Discussion on FR2 beam correspondence requirement in initial access Samsung
14. R4-2307935 Discussion on FR2 beam correspondence test in initial access Samsung
15. R4-2308168 Discussion on FR2-1 UL 256QAM ZTE Corporation
16. R4-2308199 Beam correspondence requirements for initial access CMCC
17. R4-2308200 Beam correspondence test issues for initial access state CMCC
18. R4-2308223 Discussion for FR2-1 UL256QAM LG Electronics France
19. R4-2308226 On UL 256QAM UE RF requirements for FR2-1 Ericsson Limited
20. R4-2308227 Discussion on PTRS configuration for FR2 256QAM vivo
21. R4-2308228 Discussion on beam correspondence requirement and applicability vivo
22. R4-2308229 Discussion on beam type and relaxation in initial acsess vivo
23. R4-2308230 TP for test related issue of beam correspondence in initial acess vivo
24. R4-2308387 On beam correspondence requirement applicability for IA and RRC\_INACTIVE mode MediaTek Inc.
25. R4-2308388 On UE beam type and DRX implications MediaTek Inc.
26. R4-2308389 On beam correspondence test issues MediaTek Inc.
27. R4-2308603 Beam correspondence requirement applicability Nokia, Nokia Shanghai Bell
28. R4-2308604 UE beam type and DRX implications Nokia, Nokia Shanghai Bell
29. R4-2308605 Beam correspondence test issues Nokia, Nokia Shanghai Bell
30. R4-2308606 Introducing beam correspondence requirement for initial access and RRC\_INACTIVE Nokia, Nokia Shanghai Bell
31. R4-2308803 TR38.891 v 0.5.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
32. R4-2308804 TP for TR 38.891 on simulation assumptions for phase noise profiles evaluation and MPR simulation results for FR2 UL 256QAM Xiaomi
33. R4-2308805 Discussion on UL 256QAM Xiaomi
34. R4-2308806 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
35. R4-2309028 Views on UL 256-QAM for FR2-1 Sony
36. R4-2309029 Views on Beam correspondence for initial access Sony, Ericsson
37. R4-2309074 On UL FR2 256QAM Apple
38. R4-2309281 On enabling FR2 UL256QAM Qualcomm Incorporated
39. R4-2309282 On test conditions for initial access beam correspondence Qualcomm Incorporated
40. R4-2310013 Topic summary for [107][130] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
41. R4-2310014 Topic summary for [107][131] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)
42. R4-2310258 Introducing beam correspondence requirement for initial access and RRC\_INACTIVE Nokia, Nokia Shanghai Bell
43. R4-2310259 WF on beam correspondence in initial access and RRC inative mode Nokia
44. R4-2310260 WF on UL 256QAM requirements Xiaomi
45. R4-2310282 Ad hoc minutes for FR2 enhancement part1 and part 2 Nokia
46. R4-2310291 TP for TR 38.891: General and Specification impact Apple
47. R4-2310292 UE beam type and DRX implications Nokia, Nokia Shanghai Bell
48. R4-2310293 TP for test related issue of beam correspondence in initial acess vivo

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1. R4-2311082 Discussion on UL 256 QAM BS Demodulation Nokia, Nokia Shanghai Bell
2. R4-2311083 Supporting simulations for UL 256 QAM BS Demodulation Nokia, Nokia Shanghai Bell
3. R4-2311159 Discussion on PUSCH demodulation requirements for FR2 UL256QAM NTT DOCOMO, INC.
4. R4-2311249 On FR2 UL 256QAM Apple
5. R4-2311282 On enabling FR2 UL256QAM Qualcomm Incorporated
6. R4-2311283 On initial access beam correspondence Qualcomm Incorporated
7. R4-2311309 On open issue for beam correspondence Apple
8. R4-2311310 LS on beam correspondence testing Apple, Huawei
9. R4-2311311 On beam correspondence requriement Apple
10. R4-2311312 TP for TR 38.891: Specification impact Apple
11. R4-2311533 Beam correspondence requirement applicability Nokia, Nokia Shanghai Bell
12. R4-2311534 Text Proposal for TR 38.891 on Spherical coverage requirement Nokia, Nokia Shanghai Bell
13. R4-2311535 Text Proposal for TR 38.891 on Impact of power control accuracy Nokia, Nokia Shanghai Bell
14. R4-2311536 Introducing beam correspondence requirement for initial access and RRC\_INACTIVE Nokia, Nokia Shanghai Bell
15. R4-2311665 MPR simulation results for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
16. R4-2311666 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
17. R4-2311813 Discussion on Beam correspondence requirements CMCC
18. R4-2311830 Discussion on FR2-1 UL 256QAM ZTE Corporation
19. R4-2311831 Discussion on demodulation for FR2-1 UL 256QAM ZTE Corporation
20. R4-2312022 Discussion on beam correspondence requirement applicability ZTE Corporation
21. R4-2312069 Discussion on FR2 UL 256QAM demodulation requirements Ericsson
22. R4-2312218 View on BS demodulation requirements for FR2 256QAM Samsung
23. R4-2312237 Discussion for FR2-1 UL256QAM MPR LG Electronics France
24. R4-2312317 Discussion on UE UL 256QAM Huawei, HiSilicon
25. R4-2312508 Discussion on requirements of initial access beam correspondence Samsung
26. R4-2312574 Discussion on FR2 UL 256QAM vivo
27. R4-2312575 Discussion on beam correspondence requirement for initial access vivo
28. R4-2312576 Discussion on test related issue for beam correspondence in initial access vivo
29. R4-2312683 TR38.891 v 0.6.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
30. R4-2312684 TP for TR 38.891 on simulation results of phase noise profiles evaluation and MPR for FR2 UL 256QAM Xiaomi
31. R4-2312685 Draft CR for Rel-18 38.101-2 to introduce FR2-1 UL 256QAM RF requirements Xiaomi
32. R4-2312686 Discussion on UL 256QAM Xiaomi
33. R4-2312687 Discussion on BS PUSCH demodulation performance for 256QAM Xiaomi
34. R4-2312688 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
35. R4-2313017 On beam correspondence requirements Huawei, HiSilicon
36. R4-2313018 On beam correspondence test issues and LS to RAN5 Huawei, HiSilicon
37. R4-2313019 LS on testability issues of PRACH beam correspondence requirements Huawei, HiSilicon
38. R4-2313190 Views on UL 256-QAM for FR2-1 Sony
39. R4-2313194 Views on Beam correspondence for initial access Sony, Ericsson
40. R4-2313417 Discussion on FR2-1 UL 256QAM MediaTek (Shenzhen) Inc.
41. R4-2313419 On beam correspondence requirement applicability for IA and RRC\_INACTIVE mode MediaTek (Shenzhen) Inc.
42. R4-2313420 On beam correspondence test issues MediaTek (Shenzhen) Inc.
43. R4-2313665 Discussion on FR2 UL 256QAM performance requirements Huawei, HiSilicon
44. R4-2313826 On FR2-1 UL 256QAM UE RF requirements Ericsson Limited
45. R4-2314212 Topic summary for [108][130] FR2\_enh\_req\_Ph3\_part1 Nokia
46. R4-2314213 Topic summary for [108][131] FR2\_enh\_req\_Ph3\_part2 Xiaomi
47. R4-2314619 Discussion on FR2-1 UL 256QAM ZTE
48. R4-2314675 LS on beam correspondence testing Apple, Huawei
49. R4-2314676 WF on beam correspondence for initial access Nokia
50. R4-2314677 WF on UE RF requirements for FR2-1 UL 256QAM Xiaomi

**RAN4#108-bis**

1. R4-2315044 Discussion on UL 256 QAM BS Demodulation Nokia, Nokia Shanghai Bell
2. R4-2315045 Supporting Simulations for 256QAM UL Demodulation Nokia, Nokia Shanghai Bell
3. R4-2315054 MPR for FR2 UL256QAM Qualcomm Incorporated
4. R4-2315055 On initial access beam correspondence Qualcomm Incorporated
5. R4-2315196 Discussion on Beam correspondence requirements CMCC
6. R4-2315265 MPR simulation results for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
7. R4-2315266 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
8. R4-2315435 TP for TR 38.891 on simulation results of phase noise profiles evaluation and MPR for FR2 UL 256QAM Xiaomi
9. R4-2315436 Draft CR for Rel-18 38.101-2 to introduce FR2-1 UL 256QAM RF requirements Xiaomi
10. R4-2315437 Discussion on UL 256QAM Xiaomi
11. R4-2315438 Discussion on BS PUSCH demodulation performance for 256QAM Xiaomi
12. R4-2315439 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
13. R4-2315496 On beam correspondence in IA Apple
14. R4-2315497 LS on beam correspondence testing Apple
15. R4-2315498 On beam correspondence requriement for EN-DC/NE-DC Apple
16. R4-2315499 TP for TR 38.891: Specification impact Apple
17. R4-2315539 Draft CR for Rel-18 38.101-2 to specify the EVM with limit MCS for UL256QAM LG Electronics France
18. R4-2315540 Discussion for FR2-1 UL256QAM MPR LG Electronics France
19. R4-2315555 Discussion on requirements of initial access beam correspondence Samsung
20. R4-2315556 Discussion on test issues of initial access beam correspondence Samsung
21. R4-2315559 MPR for FR2-1 UL 256QAM MediaTek (Shenzhen) Inc.
22. R4-2315560 On beam correspondence requirement applicability for IA and RRC\_INACTIVE mode MediaTek (Shenzhen) Inc.
23. R4-2315561 Views on UL 256-QAM for FR2-1 Sony
24. R4-2315562 Views on power tolerance for Beam correspondence in initial access Sony, Ericsson
25. R4-2315563 Discussion on FR2-1 UL 256QAM ZTE Corporation
26. R4-2315588 Discussion on FR2 PUSCH 256QAM demodulation requirements Ericsson
27. R4-2315589 Simulation results for FR2 PUSCH 256QAM Ericsson
28. R4-2315628 Discussion on beam correspondence requirement applicability ZTE Corporation
29. R4-2315700 Discussion on demodulation for FR2-1 UL 256QAM ZTE Corporation
30. R4-2315808 Discussion on  FR2 UL 256QAM vivo
31. R4-2315809 draft LS on FR2-1 UL 256QAM PTRS configuration vivo
32. R4-2315810 draft CR for FR2-1 UL 256QAM MPR vivo
33. R4-2315811 Discussion on RF requirement for beam correspondence in initial access vivo
34. R4-2315862 On beam correspondence requirements Huawei, HiSilicon
35. R4-2315863 On beam correspondence test issues and LS to RAN5 Huawei, HiSilicon
36. R4-2315864 LS on testability issues of PRACH beam correspondence requirements Huawei, HiSilicon
37. R4-2315869 TR38.891 v 0.7.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
38. R4-2315966 R18 FR2 beam correspondence in initial access OPPO
39. R4-2316002 Discussion on FR2 UL 256QAM performance requirements Huawei,HiSilicon
40. R4-2316003 Simulation results on FR2 UL 256QAM performance requirements Huawei,HiSilicon
41. R4-2316074 UL256QAM demod SNR limit Keysight Technologies UK Ltd
42. R4-2316149 View on BS demodulation requirements for FR2 256QAM Samsung
43. R4-2316379 MPR for FR2 UE UL 256QAM Huawei, HiSilicon
44. R4-2316623 Beam correspondence requirement applicability Nokia, Nokia Shanghai Bell
45. R4-2316624 Text Proposal for TR 38.891 on Implementation impact to UE Nokia, Nokia Shanghai Bell
46. R4-2316625 Text Proposal for TR 38.891 on UE testing impacts Nokia, Nokia Shanghai Bell
47. R4-2316626 Introducing beam correspondence requirement for initial access and RRC\_INACTIVE Nokia, Nokia Shanghai Bell
48. R4-2316789 On FR2 UL 256QAM Apple
49. R4-2316837 On UL 256QAM UE RF requirements for FR2-1 Ericsson Limited, CENC
50. R4-2316902 Offline minutes for [108bis][315] NR\_RF\_FR2\_req\_Ph3\_Demod Nokia
51. R4-2316903 WF on 256QAM BS demodulation, Nokia
52. R4-2316972 Simulation summary for 256QAM Nokia
53. R4-2317249 Topic summary for [108-bis][125] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
54. R4-2317250 Topic summary for [108-bis][126] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)
55. R4-2317594 WF on Beam correspondence requirements for RRC\_INACTIVE and initial access Nokia
56. R4-2317595 Draft CR for Rel-18 38.101-2 to introduce FR2-1 UL 256QAM RF requirements Xiaomi, Nokia, vivo, LG Electronics, ZTE, Qualcomm, Sony, MediaTek, Huawei, Apple, Ericsson
57. R4-2317596 WF on FR2-1 UL 256QAM requirements Xiaomi
58. R4-2317764 LS on testability issues of PRACH beam correspondence requirements Huawei, HiSilicon
59. R4-2317771 WF on Beam correspondence requirements for RRC\_INACTIVE and initial access Nokia
60. R4-2317946 Topic summary for [108bis][315] NR\_RF\_FR2\_req\_Ph3\_Demod Moderator(Nokia)

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1. R4-2318052 Discussion on UL 256 QAM BS Demodulation Nokia, Nokia Shanghai Bell
2. R4-2318053 Supporting Simulations for 256QAM UL Demodulation Nokia, Nokia Shanghai Bell
3. R4-2318134 Topic summary for [109][128] FR2\_enh\_req\_Ph3\_part1 Moderator (Nokia)
4. R4-2318135 Topic summary for [109][129] FR2\_enh\_req\_Ph3\_part2 Moderator (Xiaomi)
5. R4-2318209 Topic summary for [109][317] NR\_RF\_FR2\_req\_Ph3\_Demod Moderator (Nokia)
6. R4-2318233 Introduction of 256 QAM PUSCH Requirements to TS 38.104 Nokia, Nokia Shanghai Bell
7. R4-2318392 Proposals on UE RF requirements for FR2-1 UL 256QAM Nokia, Nokia Shanghai Bell
8. R4-2318466 Draft CR for beam correspondence for IDLE and INACTIVE Huawei, HiSilicon
9. R4-2318483 Text Proposal for TR 38.891 on Beam Correspondence Requirements Nokia, Nokia Shanghai Bell
10. R4-2318484 Text Proposal for TR 38.891 on Implementation impact to UE Nokia, Nokia Shanghai Bell
11. R4-2318485 Text Proposal for TR 38.891 on UE testing impacts Nokia, Nokia Shanghai Bell
12. R4-2318632 On beam correspondence requriement for EN-DC/NE-DC Apple
13. R4-2318633 TP for TR 38.891: Specification impact Apple
14. R4-2318769 Intra-band CA MPR for FR2 UL256QAM Qualcomm Incorporated
15. R4-2318873 TP for TR 38.891 to capture the simulation results of MPR and introduce the general description for FR2 UL 256 QAM Xiaomi
16. R4-2318874 CR for Rel-18 38.101-2 to introduce FR2-1 UL 256 QAM RF requirements Xiaomi, Nokia, vivo, LG Electronics, ZTE, Qualcomm, Sony, MediaTek, Huawei, Apple, Ericsson
17. R4-2318875 Discussion on UL 256 QAM Xiaomi
18. R4-2318876 TP for TR 38.891 to correct some simulation results for phase noise profile Xiaomi
19. R4-2318877 Discussion on BS PUSCH demodulation performance for 256 QAM Xiaomi
20. R4-2318878 Discussion on beam correspondence requirements for RRC\_INACTIVE and initial access Xiaomi
21. R4-2318979 Discussion on remaining issue on FR2 UL 256QAM vivo
22. R4-2318980 draft CR for introducing CA MPR for FR2-1 UL 256 QAM vivo
23. R4-2318981 Further evaluation on the impact of power tolerence vivo
24. R4-2318982 TP for TR 38.891 on impact of power control tolerance vivo
25. R4-2319015 Discussion on FR2-1 UL 256QAM MediaTek (Shenzhen) Inc.
26. R4-2319027 Draft CR for Rel-18 TS 38.101-2 to specify FR2-1 UL256 QAM intra-band CA MPR requirements MediaTek (Shenzhen) Inc.
27. R4-2319135 TR38.891 v 0.8.0 for NR RF requirements enhancement for frequency range 2 (FR2), Phase 3 Xiaomi,Nokia
28. R4-2319195 Draft CR to TS38.101-2 introduction of beam correspondence requirement for RRC\_INACTIVE and initial access ZTE Corporation
29. R4-2319269 Discussion on PRACH requirements handling Samsung
30. R4-2319290 Discussion for FR2-1 UL256QAM MPR LG Electronics France
31. R4-2319318 Discussion FR2-1 PUSCH 256QAM demodulation requirements Ericsson
32. R4-2319319 Simulation results for FR2 PUSCH 256QAM requirements Ericsson
33. R4-2319320 [NR\_RF\_FR2\_req\_Ph3-Perf] Draft CR for 38.141-2 FR2-1 PUSCH 256QAM requirements Ericsson
34. R4-2319442 Discussion on intra-band CA MPR for FR2-1 UL 256QAM ZTE Corporation
35. R4-2319526 Draft CR to 38.104 FRC for FR2-1 UL 256QAM ZTE Corporation
36. R4-2319527 Draft CR to 38.141-2 FRC for FR2-1 UL 256QAM ZTE Corporation
37. R4-2319529 Discussion on demodulation for FR2-1 UL 256QAM ZTE Corporation
38. R4-2319530 Simulation results for FR2-1 UL 256QAM ZTE Corporation
39. R4-2319675 On FR2 UL 256QAM for intra-band CA Huawei, HiSilicon
40. R4-2319707 UL256QAM demod SNR limit and test feasibility Keysight Technologies UK Ltd
41. R4-2319842 Discussion and simulation results on BS demodulation requirements for FR2 256QAM Samsung
42. R4-2320214 [NR\_RF\_FR2\_req\_Ph3-Perf] Draft CR on introducing propagation condition for FR2 UL256QAM demodulation performance requirements (TS38.104, Rel-18) Huawei,HiSilicon
43. R4-2320215 Discussion on FR2 UL 256QAM performance requirements Huawei,HiSilicon
44. R4-2320216 Simulation results on FR2 UL 256QAM performance requirements Huawei,HiSilicon
45. R4-2320217 Simulation summary for 256 QAM UL BS Demodulation Huawei ,HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson, Samsung, NTT Docomo, Xiaomi, ZTE
46. R4-2320638 Introducing beam correspondence requirement for initial access and RRC\_INACTIVE Nokia, Nokia Shanghai Bell
47. R4-2320820 On MPR requirements for UL 256QAM for FR2-1 Ericsson India Private Limited
48. R4-2320969 On beam correspondence requriement for EN-DC/NE-DC Apple
49. R4-2321054 Offline meeting minutes for [109][317] NR\_RF\_FR2\_req\_Ph3\_Demod Nokia
50. R4-2321060 WF on [109][317] NR\_RF\_FR2\_req\_Ph3\_Demod Nokia
51. R4-2321152 Draft CR to 38.104 FRC for FR2-1 UL 256QAM ZTE
52. R4-2321153 Draft CR to 38.141-2 FRC for FR2-1 UL 256QAM ZTE
53. R4-2321190 [NR\_RF\_FR2\_req\_Ph3-Perf] Draft CR for 38.141-2 FR2-1 PUSCH 256QAM requirements Ericsson
54. R4-2321717 TP for TR 38.891 to capture the simulation results of MPR and introduce the general description for FR2 UL 256 QAM Xiaomi
55. R4-2321718 CR for Rel-18 38.101-2 to introduce FR2-1 UL 256 QAM RF requirements Xiaomi, Nokia, vivo, LG Electronics, ZTE, Qualcomm, Sony, MediaTek, Huawei, Apple, Ericsson
56. R4-2321719 TP for TR 38.891 on impact of power control tolerance vivo
57. R4-2321720 Introducing beam correspondence requirement for initial access and RRC\_INACTIVE Nokia, Nokia Shanghai Bell
58. R4-2321984 Introducing beam correspondence requirement for initial access and RRC\_INACTIVE Nokia, Nokia Shanghai Bell

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 21.05.2022 minor adaptations for RAN #96

 10.01.2022 minor adaptations for RAN #95e

 04.10.2021 minor adaptations for RAN #94e

 08.08.2021 minor adaptations for RAN #93e

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 28.01.2021 minor adaptations for RAN #91e

 09.11.2020 minor adaptations for RAN #90e

 31.08.2020 minor adaptations for RAN #89e

 20.04.2020 minor adaptations for RAN #88e

 18.02.2020 minor adaptations for RAN #87e

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v04.72 26.05.2016 adaptations for RAN #72 (introduction of NR & GERAN TUs)

v04.71 10.02.2016 minor adaptations for RAN #71

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v04.65 16.08.2014 minor adaptations for RAN #65

v04.64 22.05.2014 minor adaptations for RAN #64

v04.63 24.01.2014 restructuring for RAN #63 to cover Core & Perf. in one doc file

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v02 07.05.2010 history added, some spelling corrections

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