TSG-RAN meeting #13 RP-010499
Beijing, China, 18-21 September 2001

**Title:** **Approved Report of the 12th TSG-RAN meeting (Stockholm, Sweden , 12-15 June 2001)**
**Document for:** **Information**
**Source:** **3GPP support team**

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# Executive summary

During TSG-RAN #12, a total of 217 documents were handled. For R'99 290 CRs were approved, for Rel-4 (only, not including Category A CRs following from R'99 CRs) an additional 80 CRs and for Rel-5 (again not including Category A CRs) an additional 5 CRs. A TR on deployment aspects was approved for Rel-4.

A definition of the term "Isolated Impact" (within a release, between versions) was provided, to distinguish with "backwards compatibility" (between releases).

Guidelines were discussed on the interaction between TSG-RAN WGs and TSG-T WG1. It was agreed that TSG-RAN WGs could provide guidance and information, but that the work on testing specifications had to be done by TSG-T WG1. Companies should provide sufficient resources to TSG-T WG1 for this purpose.

It was decided that the TSG-RAN WGs shall present agreed CRs for Rel-5 WIs to the plenary and that the plenary will decide on a case-by-case basis to approve them immediately, or to put them "on hold". Only if it is already known that the WI is not finished, do the CRs not need to be brought to the plenary.

WGs were also reminded that TRs/TSs should only be presented to TSG-RAN if they are 50% or more complete (and thus in version 1.0.0 or higher).

The WG3 decision on to make IPv6 mandatory and IPv4 optional for RAN transport was endorsed and a clarification was provided for inclusion in the relevant TR.

A proposal to introduce new power output classes for specific frequency bands was referred back to WG4 as there were consequences on (among other things) type approval.

The information to be submitted to ITU-R WP8F as evolved by the ITU-R Ad Hoc group was approved.

The WI "Gated DPCCH Transmission" was terminated. The WIs on UMTS 1800 and UMTS 1900 were not yet finished and all related documents (including the new TS 25.307) were postponed. On the WI "Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning" three TSs were approved, but one additional TS (on signalling) had not yet been agreed in WG3. For WI "TDD Base Station Classification" the TR was approved. A lot of progress had been made in WG1 and WG2 on the WI "HSDPA". A proposed new WI on vendor-specific extensions was rejected and would be discussed in TSG-SA.

New approved WIs [leading WG between square brackets]:

- Iur Common Transport Channel Efficiency Optimisation [WG3]- Iur Neighbouring cell reporting Efficiency Optimisation [WG3]- Base Station Classification for 1.28 Mcps TDD option [WG4]- Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN [WG2]- Provisionally approved (on condition that TSG-SA agrees to have this work done).
- UE Specific beamforming with dedicated pilots [WG4 or WG1]- Provisionally approved (investigation to be carried out).

New approved SIs [leading WG between square brackets]:

- Wideband Distribution Systems [WG4]
- SRNS relocation enhancement [WG3]- Direct transport bearers between SRNC and Node-B [WG3]

# 1 Opening of the meeting

Francois Courau (Chairman) opened the meeting. Per Beming (Ericsson) welcomed the delegates to Stockholm and explained the logistics of the meeting.

# 2 Approval of the agenda

**RP-010280 Proposed agenda (Chairman)**
Francois Courau (Chairman) proposed the agenda for the meeting.
**Decision:** The agenda was approved.

# 3 Approval of the meeting report of TSG-RAN Meeting #11

**RP-010281 Draft Report of the 11th TSG-RAN meeting (Palm Springs, CA, USA, 13-16 March 2001) (Secretary)**

**RP-010282 Revised draft Report of the 11th TSG-RAN meeting (Palm Springs, CA, USA, 13-16 March 2001) (Secretary)**
The revised meeting report of TSG-RAN #11 in RP-010282 had been distributed via the email reflector and was on the server. Compared to the original draft version, there was only an update of the meeting calendar and a number of editorial corrections. The meeting calendar would be updated again in the approved version.
**Decision:** The report was approved. The approved report would be available in RP-010283.

**RP-010283 Approved Report of the 11th TSG-RAN meeting (Palm Springs, CA, USA, 13-16 March 2001) (Secretary)**
This was the approved report of the TSG-RAN #11 meeting.

# 4 IPR Claims

Francois Courau (Chairman) reminded the delegates of their obligations with respect to IPRs.

NOTE: IPRs should be declared to the Director-General or Chairman of the SDO, not to the TSG-RAN Chairman.

# 5 Chairman Report of TSG-SA#11 and PCG/OP

## 5.1 TSG-SA Report

Francois Courau (Chairman) summarised the results of the TSG-SA #11 meeting:

- In TSG-SA #11 there had been elections. Niels Peter Skov Andersen (Motorola) was re-elected chairman. The Vice-Chairmen were Hiroshi Nakamura (NTT DoCoMo) and Gary Jones (Voicestream).
- TSG-SA requested that work on Broadcast facility in TSG-RAN shall await approval of a Work Item at the SA level and requested TSG-RAN to wait before starting any work. TSG-SA WG1 had

started to look at the WI on multicast/broadcast, but it would not be provided before the end of this TSG-RAN plenary meeting.
- New CR forms were asked for (and delivered by MCC since).
- The relation with IETF was discussed again and the way TSG-RAN has been working with IETF for ROHC was considered the best way. A Work Item shall be created and a rapporteur appointed within 3GPP.Additionally the rapporteur shall not consider his work finished when the work has been completed in IETF but this requires that monitoring of the work done in IETF shall be continued so that backward compatibility for 3GPP is preserved.
- TSG-RAN should investigate whether first AMR 2 and W-AMR had any impact.
- The A-GPS open interface WI was deferred to Rel-5 inluding architectural aspects that were agreed to be part of Release 4 in TSG-RAN originally.
- Two new WIs might have impact on RAN (Support of Presence Capability and Support of IP EMergency Call without USIM (FS)).

## 5.2 PCG/OP Report

Francois Courau (Chairman) summarised the results of the latest PCG meeting:
- PCG confirmed that current practice of incorporating all reginal requirements should be continued unless inclusion was impractical.
- TSG-RAN is to support the attempt for 3GPP/3GPP2 to harmonise their High Speed Packet support and to keep the PCG fully informed of the developments.
- ITU matters should be kept at PCG level rather than by correspondence (so no LSs). The ITU Bureau was tasked to look at potential harmonisation on the meeting calendar.
- The result of the PCG Ad Hoc Review group would be provided in the form of an input document for information. See also RP-010486.
- It was allowed to exchange LSs with the MExE Forum.

**RP-0104863GPP TSG RAN Report of the PCG and OP (10-11 april 2001) (Chairman)**
This document was for information.

# 6 Chairman report of external meetings

## 6.1 UMTS Forum Workshop

Francois Courau (Chairman) summarised the results of this Workshop. An input document would be provided on this for background information, see RP-010491. This will be considered to be a basis for the TSG-SA Workshop that will take place in the second part of October.

**RP-010491Report on UMTS Forum Workshop (Chairman)**
This document was for information.

# 7 Liaisons from other groups

## 7.1 TSG-SA, TSG-T, TSG-CN, TSG-GERAN

### 7.1.1 TSG-SA and TSG-SA WGs

**RP-010286 (S2-010813, copy TSG-RAN) LS on Missing LCS QoS, Priority, Request type, Assistance data, Client type, Stop reporting type paramaters of Iu interface RANAP 25.413 (LOCATION REPORTING CONTROL and LOCATION REPORT messages) (TSG-SA WG2)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Discussion:** The response had been provided already as RP-010291.
**Decision:** The LS was noted.

**RP-010287 (S2-011572, to TSG-RAN) LS on Requirements on the Iu Interface (TSG-SA WG2)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Discussion:** The response had been provided already as RP-010436.
**Decision:** The LS was noted.

### 7.1.2 TSG-T and TSG-T WGs

**RP-010294 (T1-010159, copy TSG-RAN) LS on Establishment of an Ad Hoc for RRM test (TSG-T WG1)**

Denis Fauconnier (TSG-RAN WG2 Chairman) presented this LS.
**Discussion:** It had already been agreed that a joint meeting would be held between WG2, WG4 and TSG-T WG1 during the next co-located meeting (9-13 July in Berlin). The issue of a separate Ad Hoc group was something else. It was stated that an Ad Hoc meeting would not solve the problem, because the real problem was that not enough resources were made available for the testing groups. Another problem was the exact split of the work between the WGs. In the past WG4 and TSG-T WG1/RF had been co-located, but it was difficult from a practical point of view. On the other hand, the testing people should be kept together also. In the PCG Ad Hoc Review it had been concluded that there were no strong arguments for joining any TSG-RAN groups and any TSG-T groups or reorganise them. It was commented that it was useful for people working on the core specifications to understand how the testing works, because currently there were requirements in the core specifications that were not testable.
**Decision:** The LS was noted. The mandate of the joint meeting should be limited to providing the necessary information. Companies were requested to make enough resources available to TSG-T WG1.

### 7.1.3 TSG-CN and TSG-CN WGs

**RP-010288 (N4-010696, copy TSG-RAN) Response to LS (R3-010988) on Highlighting Requirements to RAN3 for SRNS relocation with TrFO (TSG-CN WG4)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Discussion:** The LS was one that WG3 had been waiting for but that had not turned up so far. There was disagreement on whether this was a correction of something already in R'99/Rel-4, or a new functionality that should be in Rel-5 only.
**Decision:** The LS was noted. WG3 needed to handle it as urgently as possible. WG3 would provide the CRs for the TSG-RAN #13 meeting based on the Rel-4 version of the specifications, although the final decision on the Release would be taken in the TSG-RAN #13 meeting.

**RP-010493LS (NP-010362, to TSG-RAN) on CR numbering (TSG-CN)**
Francois Courau (Chairman) presented this LS.
**Decision:** The LS was noted. WG4 would from now on number CRs in advance.

### 7.1.4 TSG-GERAN and TSG-GERAN WGs

**RP-010412(GP-011437, to TSG-RAN) LS on Terminology clarifications (TSG-GERAN)**
Niels Andersen (TSG-GERAN Chairman) presented this LS.
**Discussion:** This was more important for TSG-CN and TSG-SA, but also impacted TSG-RAN.
**Decision:** The LS was noted. The WGs were encouraged to use the terminology provided in the LS.

## 7.2 Others (non-RAN)

### 7.2.1 BRAN

**RP-010295(BRAN23d132, copy TSG-RAN) Response to LS (RP-010279) on HIPERLAN (EP BRAN)**
Francois Courau (Chairman) presented this LS.
**Discussion:** There was already a response to this LS in RP-010293.
**Decision:** The LS was noted.

## 7.3 TSG-RAN WGs

### 7.3.1 TSG-RAN WG1

**RP-010284(R1-010665, copy TSG-RAN) LS on Revision of Tdoc R1-010560 "Material to be submitted to ITU-R WP8F#5" (TSG-RAN WG1)**
Antti Toskala (TSG-RAN WG1 Chairman) presented this LS.
**Discussion:** The document had been taken into account in an input document from the ITU-R Ad Hoc group.
**Decision:** The LS was noted.

### 7.3.2 TSG-RAN WG2

**RP-010285(R2-011481, copy TSG-RAN) LS on Requirements on UE positioning (TSG-RAN WG2)**
Denis Fauconnier (TSG-RAN WG2 Chairman) presented this LS.
**Discussion:** In answer to concerns from WG4, it was explained that no work had been done in WG2 on accuracy and that an outcome of TSG-SA WG1 was awaited before it could be decided whether any work was needed at all.
**Decision:** The LS was noted. The response from TSG-SA WG1 would be reviewed and WG2 and WG4 would discuss during the joint meeting in Berlin what distribution of work was necessary, if any. The TSG-RAN Chairman would discuss with the TSG-SA WG1 Chairman to make sure that a response would be received in due time due to the fact that the two meetings are taking place at the same date. The WG Chairmen would also discuss offline what should and what should not be tested with the TSG-T WG1 Chairman.

## 7.3.3 TSG-RAN WG3

**RP-010289 (R3-011193, to TSG-RAN) LS on Clarification of Inter-vendor aspects of Node B static parameters (TSG-RAN WG3)**

Jim Miller (TSG-RAN WG3 Vice-Chairman) presented this LS.
**Discussion:** This was in answer to a request by TSG-RAN #11. It was clarified that it was for R'99 and that only one hardware platform was the basic assumption. This might be improved in the future if need be.
**Decision:** The LS was noted. TSG-RAN was happy with the response.

**RP-010290 (R3-011267, copy TSG-RAN) LS on Review of UTRAN O&M Procedures TR32.800 (TSG-RAN WG3)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Decision:** The LS was noted.

**RP-010291 (R3-011284, copy TSG-RAN) Response to LS (S2-010813) on Missing LCS QoS, Priority, Request type, Assistance data, Client type, Stop reporting type parameters over Iu interface RANAP 25.413 (TSG-RAN WG3)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Discussion:** The LS was for information to TSG-RAN only.
**Decision:** The LS was noted.

**RP-010292 (R3-011287, copy TSG-RAN) LS on Feasibility of USTS in point of WG3 (TSG-RAN WG3)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Discussion:** This issue would come up when discussing the USTS SI. The conclusion in WG3 was that USTS was feasible in a low mobility environment. It was asked what "low mobility" meant. It was explained that it was considered not to be feasible in an environment with high mobility.
**Decision:** The LS was noted.

**RP-010293 (R3-011841, copy TSG-RAN) Response to LS (BRAN23d132) on HIPERACCESS (TSG-RAN WG3)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Discussion:** EP-BRAN would do the work adapting their specification to take into account the specific requirements as explained by WG3 and contact WG3 again after completion.
**Decision:** The LS was noted.

**RP-010436 (R3-011868, to TSG-RAN) Response to LS (S2-011572) on Requirements on the Iu Interface (TSG-RAN WG3)**

Martin Israelsson (TSG-RAN WG3 Chairman) presented this LS.
**Discussion:** There was also an input document from Motorola on this topic (RP-010416). See the discussion for RP-010416.
**Decision:** The LS was noted.

## 7.3.4 TSG-RAN WG4

**RP-010453 LS (R4-010723, copy TSG-RAN) on Power Output Classes for Frequency Bands II and III (TSG-RAN WG4)**

Howard Benn (TSG-RAN WG4 Chairman) presented this LS.
**Discussion:** The actions required were in WG2 and WG3. In WG2 there had been an extension to accommodate up to eight power classes already. A problem was that the existing operators did not want

this power class, so it should be only applicable for the new operators. Also, consequences might be implied for the type approval of UEs in other parts of the world. This would be very difficult to realise. A good argument needed to be provided for the introduction of a new power class. WG4 needed to rediscuss this issue. It was asked how this would work for a dual band mobile. This also needed to be investigated. No further modification should be taken before all the impacts within WG4 scope had been identified.
**Decision:** The LS was noted. WG4 would inform WG3 of any possible impacts after the issue had been rediscussed in WG4.

# 8 Status Report and Approval of contributions - R'99 & Rel-4

**Vocabulary documents**

| Tdoc | TR | Presented as version | Title | Result | Final version |
|---|---|---|---|---|---|
| n/a | 25.990 | n/a | TSG-RAN Vocabulary document | n/a | n/a |
| n/a | 21.905 | n/a | Vocabulary document | n/a | n/a |

**RP-010415 Backward compatibility of Release 99 versions (Motorola)**
Howard Benn (Motorola) presented this document.
**Discussion:** It was clarified that it was only the terminology that was a problem, not the way of working. Francois Courau (Chairman) clarified that "backward compatibility" was directly related to implementations in the field. The real issue was how to decide whether a CR could be approved, or not. The term "backward compatible" could be interpreted in different ways. There was a definition (included in this document also) that had been developed after a lot of discussion within WG2. This was created in response to the TSG-RAN decision that the WGs should "maximise backward compatibility". Denis Fauconnier (TSG-RAN WG2 Chairman) presented the WG2 document included in this document. It was stated that, irrespective of the definition given, (compromise) solutions would need to be found when conflicting interpretations of the standards would be found to be in the field anyway.
**Decision:** The document was noted. Denis Fauconnier (TSG-RAN WG2 Chairman) would chair a small group to draft the questions to be answered as analysis for all CRs, for all WGs (an "impact analysis"). The outcome of the discussion was provided in RP-010484.

**RP-010484 Isolated Impact CRs (Ad Hoc group)**
Howard Benn (TSG-RAN WG4 Chairman) presented this document.
**Discussion:** The word "not" should be inserted in the last bullet point (impact analysis). It was commented that the proponent of any CR should do an analysis.
**Decision:** The document was approved, taking into account the comment. A revision would be provided by RP-010494.

**RP-010494 Isolated Impact CRs (Ad Hoc group)**
**Decision:** The document was approved. It could be found in Annex D. Each of the WGs needed to be informed. It would be investigated with TSG-SA whether a revision of the CR cover sheet would be possible. The TSG-RAN Chairman would report on the output of TSG-SA. The WG Chairmen and MCC would be responsible for implementation of the results.

NOTE: The numbering of R'99 and Rel-4 CRs (and future Rel-5, 6, ... CRs) was all in the same range. No separate ranges had been used in SMG, CN, SA etc. and this was kept the same for RAN.

# 8.1 TSG-RAN WG1

## 8.1.1 Report from TSG-RAN WG1

**RP-010329 Report from WG1 chairman to TSG-RAN (TSG-RAN WG1 Chairman)**

**RP-010330 Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN (TSG-RAN WG1 Chairman)**

Antti Toskala (Chairman TSG-RAN WG1) presented this report (RP-010329) and the supplement of agreed CRs (RP-010330).

**Presentation:**

- Release '99 CRs further reducing, down to 27 CRs, 19 for FDD;
- Few Release 4 CRs agreed on TDD + 1 for FDD:
  - 25.214 clarification for the use of SSDT signaling in the uplink only;
  - 4 TDD specific CRs, minor corrections and IPDL parameters corrections. (IPDL for TDD from Rel-4 onwards, similar correction was done for FDD R'99).
- Highest number of papers for High Speed Downlink Packet Access (HSDPA), first details agreed;
- In the last meeting some Rel-5 related papers were not treated, most time spent on HSDPA (3 days) and R'99 issues (1 day approx.);
- Joint meeting with WG1, WG2 and WG3 experts on gating and HSDPA;
- Work on DPCCH gating to stop in WG1 unless some new information would be raised in WG2/WG3 side that would change the sitution with respect the possible merits between activating the DPCCH gating and moving to cell FACH state;
- Rel-5 WIs and SIs: see separate status reports.

**Decision:** The report was noted. TSG-RAN recommended the WGs that the dates from one week before the TSG-RAN plenary until and including one week after the TSG-SA plenary should not be used for meetings. In this period no support from MCC could be expected and there might be difficulty to get the right experts.

## 8.1.2 Discussions on decisions from TSG-RAN WG1

**RP-010441 Replaced CR 180r3 (R'99) and CR 181r3 (Rel-4 Category A) to 25.214 (Nortel Networks, Ericsson, Panasonic)**

This document was replaced by RP-010482.

**RP-010482 Approved CR 180r4 (R'99) and CR 181r4 (Rel-4 Category A) to 25.214 (Nortel Networks, Ericsson, Panasonic)**

**Decision:** The CRs were **approved** (see 8.1.3).

**RP-010456 Approved CR 089r2 (R'99) and CR 090r2 (Rel-4 Category A) to 25.215 (TSG-RAN)**

**Decision:** The CRs were **approved** (see 8.1.3).

## 8.1.3 Approval of CRs (R'99 and Rel-4 Category A) from TSG-RAN WG1

**CRs to TS 25.211: Physical channels and mapping of transport channels onto physical channels (FDD)**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010331 | 25.211 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

## CRs to TS 25.212: Multiplexing and channel coding (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010332 | 25.212 | 3.5.0/4.0.0 | Agreed CRs | approved 1) | 3.6.0/4.1.0 |

1) Vodafone requested that the consequences of a CR should be extremely clear. In particular, if the rate matching CR was not implemented then the DSCH would not work.

## CRs to TS 25.213: Spreading and modulation (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010333 | 25.213 | 3.5.0/4.0.0 | Agreed CRs | approved | 3.6.0/4.1.0 |

## CRs to TS 25.214: FDD; physical layer procedures

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010334 | 25.214 | 3.6.0/4.0.0 | Agreed CRs | approved 1) 2) | 3.7.0/4.1.0 |
| RP-010441 | 25.214 | 3.6.0/4.0.0 | Proposed CR 180r3 and CR 181r3 | replaced by RP-010482 | - |
| RP-010482 | 25.214 | 3.6.0/4.0.0 | Proposed CR 180r4 and CR 181r4 | approved | 3.7.0/4.1.0 |

1) CR 180 and CR 181 were **replaced** by RP-010441, which was in turn replaced by RP-010482.
2) CR 185 and CR 186 could be considered to be addition of functionality rather than a correction. It was proposed to send these CRs back to WG1. After consultation, CR 185 and CR 186 were **approved**, taking into account the following: WG3 should add a statement to the Iub specification to indicate that the maximum DL power was defined for non-compressed mode. In compressed mode the DL power would be increased by $P_{SIR}$. A CR should be elaborated.

## CRs to TS 25.215: Measurements (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010335 | 25.215 | 3.6.0/4.0.0 | Agreed CRs | approved 1) | 3.7.0/4.1.0 |
| RP-010456 | 25.215 | 3.6.0/4.0.0 | Proposed CR 089r2 and CR 090r2 | approved | 3.7.0/4.1.0 |

1) CR 089 and CR 090 were requested to be **replaced** (see RP-010456) by the TSG-RAN plenary meeting.

## CRs to TS 25.221: Physical channels and mapping of transport channels onto physical channels (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010336 | 25.221 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

## CRs to TS 25.223: Spreading and modulation (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010337 | 25.223 | 3.5.0/4.0.0 | Agreed CRs | approved | 3.6.0/4.1.0 |

## CRs to TS 25.224: TDD; physical layer procedures

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010338 | 25.224 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

## CRs to TS 25.225: Measurements (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010339 | 25.225 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

**CRs to TR 25.944: Channel coding and multiplexing examples**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010340 | 25.944 | 3.4.0/4.0.0 | Agreed CRs | approved | 3.5.0/4.1.0 |

### 8.1.4 Approval of CRs (Rel-4) from TSG-RAN WG1

**CRs to TS 25.214: FDD; physical layer procedures**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010341 | 25.214 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**CRs to TS 25.221: Physical channels and mapping of transport channels onto physical channels (TDD)**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010342 | 25.221 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**CRs to TS 25.224: TDD; physical layer procedures**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010343 | 25.224 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

## 8.2 TSG-RAN WG2

### 8.2.1 Report from TSG-RAN WG2

**RP-010300 Report from WG2 chairman to TSG-RAN (TSG-RAN WG2 Chairman)**

**RP-010301 Supplement (List of agreed R'99 and Rel-4 Category A CRs) to Report from WG2 chairman to TSG-RAN (TSG-RAN WG2 Chairman)**

Denis Fauconnier (Chairman TSG-RAN WG2) presented this report (RP-010300) and the supplement of agreed R'99 CRs (RP-010301).

**Presentation:**

- Release '99 corrections:
  - Still occupying more than 50% of meeting time, and most of delegates bandwidth/expertise;
  - Still many corrections on aspects which were not described, unclear, or incorrect;
  - BUT few actual radio interface modifications, and level of importance of CRs is decreasing;
  - Backwards compatibilty taken into account.
- New specification 25.307 (release-independency of frequency bands).
- UE positioning: definition of tests for R'99 started.
- Methodology to ease introduction of future releases:
  - Extensions, naming, etc.
- Discussions on backwards compatibility
- HSDPA:
  - Progressed with WG1 in two joint meetings. Good progress.
- Gated transmission:
  - Joint WG1/WG2/WG3 on the subject;
  - When considering radio interface, CELL_FACH from R'99 is superior to DPCCH gating from terminal saving point of view;
  - Gains on Iub/Iur very much dependant on implementation, and therefore not sufficient to justify feature;
  - Conclusion that work should not proceed in WG1, unless WG2 or WG3 provide new potential benefits.

- A-GPS interface:
  - Progressed with WG3 in joint meeting. WG2 work completed, WG3 largely complete.
- Conclusion:
  - R'99 CRs are mostly clarifying uncomplete descriptions. Good progress on RRC, other protocols are stable;
  - Standard quality has already made significant progress. More needed to achieve interoperability level;
  - Release 4 was completed in time, but majority of delegates is still busy with Release 99. This now means more work with duplication of specifications, and maintance of two releases;
  - Past work has been paying off, Release 99 quality improves, and stability is increasing. Please sustain efforts and keep experts active in WG2.

**Discussion:**
- Some companies expressed some concerns about the number of CRs. Explanations were provided. Denis Fauconnier (TSG-RAN WG2 Chairman) explained that for a real, functioning network, you would need the June version of the specifications (the March version would work if the various topics on which CRs were provided on the slide "RRC CRs per function/category" would not be necessary).

**Decision:** The report was noted.

**RP-010411 Status of UE positioning (TSG-RAN WG2)**
Denis Fauconnier (Chairman TSG-RAN WG2) presented this report that had been requested by TSG-RAN in TSG-RAN meeting #11 (Palm Springs, March 2001).
**Discussion:** The idea of accuracy class was because sometimes it is sufficient that something is "in the neighbourhood (a lorry near a factory for instance), whereas sometimes a more exact position is needed (emergency service for instance). There were many questions following from the report that needed to be handled in discussions between WG2 and WG4, such as on IPDLs, accuracy timing etc.
**Decision:** The report was noted. At the next co-located meeting (9-13 July in Berlin), WG2 and WG4 would discuss the accuracy issue.

## 8.2.2 Discussions on decisions from TSG-RAN WG2

**RP-010435 Approved CR 073r2 (R'99) and CR 074r1 (Rel-4 Category A) to 25.304 (Motorola, Telia)**
**Decision:** The CRs were **approved** (see 8.2.3).

**RP-010438 Postponed CR 001 (Rel-4) to 25.307 (MCC)**
**Decision:** The CR was **postponed** (see 8.2.4).

**RP-010466 Replaced CR 840r3 (R'99) and CR 841r1 (Rel-4 Category A) to 25.331 (Qualcomm)**
This document was replaced by RP-010479.

**RP-010479 Withdrawn CR 840r4 (R'99) and CR 841r2 (Rel-4 Category A) to 25.331 (Qualcomm)**
**Decision:** The CRs were **withdrawn** (see 8.2.3).

**RP-010481 Approved CR 009r1 (R'99) and CR 010r1 (Rel-4 Category A) to 34.109 (Ericsson)**
**Decision:** The CRs were **approved** (see 8.2.3).

## 8.2.3 Approval of CRs (R'99 and Rel-4/Rel-5 Category A) from TSG-RAN WG2

### CRs to TS 25.301: Radio Interface Protocol Architecture

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010302 | 25.301 | 3.7.0/4.0.0 | Agreed CRs | approved | 3.8.0/4.1.0 |

### CRs to TS 25.302: Services provided by the Physical Layer

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010303 | 25.302 | 3.8.0/4.0.0 | Agreed CRs | approved | 3.9.0/4.1.0 |

### CRs to TS 25.303: Interlayer Procedures in Connected Mode

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010304 | 25.303 | 3.7.0/4.0.0 | Agreed CRs | approved | 3.8.0/4.1.0 |

### CRs to TS 25.304: UE Procedures in Idle Mode and Procedures for Cell Reselection in Connected Mode

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010305 | 25.304 | 3.6.0/4.0.0 | Agreed CRs | approved 1) | 3.7.0/4.1.0 |
| RP-010435 | 25.304 | 3.6.0/4.0.0 | Proposed CR 073r2 and CR 074r1 | approved | 3.7.0/4.1.0 |

1) CR 073 and CR074 were **replaced** by RP-010435.

### CRs to TS 25.305: Stage 2 Functional Specification of Location Services in UTRAN

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010306 | 25.305 | 3.5.0/4.0.0 /5.1.0 | Agreed CRs | approved | 3.6.0/4.1.0 /5.1.0 |

### CRs to TS 25.306: UE Radio Access Capabilities

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010307 | 25.306 | 3.1.0/4.0.0 | Agreed CRs | approved | 3.2.0/4.1.0 |

### CRs to TS 25.321: MAC protocol specification

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010308 | 25.321 | 3.7.0/4.0.0 | Agreed CRs | approved | 3.8.0/4.1.0 |

### CRs to TS 25.322: RLC Protocol Specification

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010309 | 25.322 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

### CRs to TS 25.323: Packet Data Convergence Protocol (PDCP) Specification

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010310 | 25.323 | 3.4.0/4.0.0 | Agreed CRs | approved | 3.5.0/4.1.0 |

**CRs to TS 25.331: RRC Protocol Specification**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010311 | 25.331 | 3.6.0/4.0.0 | Agreed CRs (1) | approved | 3.7.0/4.1.0 |
| RP-010312 | 25.331 | 3.6.0/4.0.0 | Agreed CRs (2) | approved | 3.7.0/4.1.0 |
| RP-010313 | 25.331 | 3.6.0/4.0.0 | Agreed CRs (3) | approved | 3.7.0/4.1.0 |
| RP-010314 | 25.331 | 3.6.0/4.0.0 | Agreed CRs (4) | approved | 3.7.0/4.1.0 |
| RP-010315 | 25.331 | 3.6.0/4.0.0 | Agreed CRs (5) | approved 1) | 3.7.0/4.1.0 |
| RP-010316 | 25.331 | 3.6.0/4.0.0 | Agreed CRs (6) | approved | 3.7.0/4.1.0 |
| RP-010317 | 25.331 | 3.6.0/4.0.0 | Agreed CRs (7) | approved | 3.7.0/4.1.0 |
| RP-010466 | 25.331 | 3.6.0/4.0.0 | Proposed CR 840r3 and CR 841r1 | replaced by RP-010479 | - |
| RP-010479 | 25.331 | 3.6.0/4.0.0 | Proposed CR 840r4 and CR 841r2 | withdrawn | 3.7.0/4.1.0 |

1) There was an objection against CR 840 and CR 841 (third change, where a condition had been changed to mandatory). CR 840 and CR 841 were **rejected.**.

**CRs to TR 25.921: Guidelines and Principles for protocol description and error handling**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010318 | 25.921 | 3.3.0/4.0.0 | Agreed CRs | approved | 3.4.0/4.1.0 |

**CRs to TS 34.109: Terminal logical test interface; Special conformance testing functions**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010319 | 34.109 | 3.3.0/4.0.0 | Agreed CRs | approved 1) | 3.4.0/4.1.0 |
| RP-010481 | 34.109 | 3.3.0/4.0.0 | Proposed CR 009r1 and CR 010r1 | approved | 3.4.0/4.1.0 |

1) CR 009 and CR 010 contained a problem. As this material is coming from TSG-T it was agreed that a new version of the CRs should be elaborated by TSG-T WG1 during the TSG-T meeting. The major concern was coming from the fact that there was now, according to the wording provided, an uncertainty on the requirement for the mobile in terms of memory requirement to support the loop test for different level of services. It was noted that the cover sheet was clearer. CR 009 and CR 010 were **replaced** by RP-010481.

**Specifications from WG2 for approval**

| Tdoc | Agreed as report | Presented as version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010326 | 25.307 | 2.0.0 | Requirements on UEs supporting a Release Independent Frequency Band | postponed 1) | 2.0.0 |

1) Since WG4 had not finished its work on UMTS 1800 and UMTS 1900, it was decided to keep the work together and decide when all material was available (hopefully at the next plenary meeting). Therefore TS 25.307 was **postponed**.

## 8.2.4 Approval of CRs (Rel-4) from TSG-RAN WG2

**CRs to TS 25.302: Services provided by the Physical Layer**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010320 | 25.302 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**CRs to TS 25.306: UE Radio Access Capabilities**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010321 | 25.306 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**CRs to TS 25.307: Requirements on UEs supporting a Release Independent Frequency Band**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010438 | 25.307 | 2.0.0 | Agreed CRs | postponed 1) | 2.0.0 |

1) Since WG4 had not finished its work on UMTS 1800 and UMTS 1900, it was decided to keep the work together and decide when all material was available (hopefully at the next plenary meeting). Therefore CR 001 was **postponed**.

**CRs to TS 25.321: MAC protocol specification**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010322 | 25.321 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**CRs to TS 25.331: RRC Protocol Specification**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010323 | 25.331 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

# 8.3 TSG-RAN WG3

## 8.3.1 Report from TSG-RAN WG3

**RP-010369 List of agreed CRs in RAN WG3 #20 and #21 meetings (TSG-RAN WG3)**
This document was replaced by RP-010455.

**RP-010368 Report from WG3 chairman to TSG-RAN (TSG-RAN WG3 Chairman)**

**RP-010455 List of agreed CRs in RAN WG3 #20 and #21 meetings (TSG-RAN WG3)**
Martin Israelsson (Chairman TSG-RAN WG3) presented this report (RP-010368) and the supplement of agreed CRs (RP-010455).

**Presentation:**

- R'99 and Rel-4:
  - Most corrections are of type clarifications to R99 & Rel-4;
  - 35 Rel-4 only CRs;
  - R'99 and Rel-4 still occupies more than 75% of meeting time;
  - Could not agree on "Stop reporting" CR as promised SA2 in LS (RP-010291).
- Rel-5:- PCAP finalised (except the Signalling transport);
  - IP UTRAN work progressed, still very few agreements;
  - WG3 has studied the feasibility of USTS technology and concluded that USTS is feasible for a low mobility environment (see RP-010292);- WG3 has studied the multi-vendor aspects of the Uplink power control preamble and concluded that these parameters need not be signalled over Iub (see RP-010289);- Work on other Rel-5 topics started;
  - Guidance asked from TSG-RAN for prioritisation of Rel-5 work.

**Discussion:**

- The status in TSG-SA WG3 needed to be checked for the IP transport in UTRAN since WG3 had been waiting for it for a while.
- It was appreciated that a lot of progress had been made on the A-GPS interface WI ("PCAP" specifications). However, concern was expressed on the fact that the PCAP specifications were held up due to problems on the transport issue.

**Decision:** The report was noted. Martin Israelsson (TSG-RAN WG3 Chairman) would check with TSG-SA WG3 on the status of the missing LS on IP security. Also, WG3 was instructed to make sure that the PCAP WI would be finalised by the next plenary meeting.

### 8.3.2 Discussions on decisions from TSG-RAN WG3

**RP-010416IPv4/6 in the transport layer (Motorola)**
Howard Benn (Motorola) presented this document.
**Discussion:** For R'99, IPv4 was mandatory and IPv6 was optional. Also, in the past it had already been concluded that "optional" still meant that manufacturers had to implement it. After discussion with the TSG-SA WG2 Chairman it had been acknowledged that it was not an architectural issue, but TSG-SA WG2 should still be involved on requirements. TSG-GERAN and TSG-CN should also be involved in the discussion. Perhaps for harmonisation a Workshop was the best forum. It was explained that the interworking case was the reason why TSG-RAN WG3 had not wanted both versions to be optional (as had been proposed by TSG-SA WG2).
**Discussion with TSG-CN delegates:**
The discussion was on IP inside the RAN. Francois Courau (Chairman) explained as background for the CN delegates that ROHC works with terminals, for which IPv6 has been mandated, and needed to be able do decode IPv6. So IPv6 necessarily needed to be supported (part of the IPv6 stack at least needed to be implemented). It was stated that making both optional would effectively mean that both needed to be implemented by manufacturers (as had been explained on several occasions before). It was explained that taking a phased approached seemed to point to making IPv4 mandatory and IPv6 optional, since IPv4 was already in R'99. It was stated that, with a dual-stack approach, it would be no problem to make both mandatory. Various operators stated their support for having IPv6 mandatory. It was stated that the debate was not on the merits of each solution, since AAL2, IPv4 and IPv6 all needed to be supported based on operators' requests.
**Decision:** The document was noted.
TSG-RAN endorsed the WG3 decision that IPv6 is mandatory and IPv4 is optional.
Nevertheless, because of the extensive discussion during the plenary, TSG-RAN decided that the following statement shall be inserted in the WG3 Technical Report:
"Because of transition period it is felt preferable that dual stack support is the best way to evolve. This does not prevent single stack support (IPv4 or IPv6). The decision is then left for operators taking into account the potential interworking or performance consequences."

### 8.3.3 Approval of CRs (R'99 and Rel-4 Category A) from TSG-RAN WG3

**CRs to TS 25.401: UTRAN Overall Description**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010370 | 25.401 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

**CRs to TS 25.402: Synchronisation in UTRAN Stage 2**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010371 | 25.402 | 3.5.0/4.0.0 | Agreed CRs | approved | 3.6.0/4.1.0 |

**CRs to TS 25.410: UTRAN Iu Interface: General Aspects and Principles**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010372 | 25.410 | 3.3.0/4.0.0 | Agreed CRs | approved | 3.4.0/4.1.0 |

**CRs to TS 25.411: UTRAN Iu interface Layer 1**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010373 | 25.411 | 3.4.0/4.0.0 | Agreed CRs | approved | 3.5.0/4.1.0 |

## CRs to TS 25.413: UTRAN Iu interface RANAP signalling

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010374 | 25.413 | 3.5.0/4.0.0 | Agreed CRs (1) | Replaced by RP-010454 | - |
| RP-010454 | 25.413 | 3.5.0/4.0.0 | Agreed CRs (1) | approved | 3.6.0/4.1.0 |
| RP-010375 | 25.413 | 3.5.0/4.0.0 | Agreed CRs (2) | approved | 3.6.0/4.1.0 |

## CRs to TS 25.415: UTRAN Iu interface user plane protocols

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010376 | 25.415 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

## CRs to TS 25.419: UTRAN Iu Interface: Service Area Broadcast Protocol SABP

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010377 | 25.419 | 3.4.0/4.0.0 | Agreed CRs | approved | 3.5.0/4.1.0 |

## CRs to TS 25.423: UTRAN Iur interface RNSAP signalling

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010378 | 25.423 | 3.5.0/4.0.0 | Agreed CRs (1) | approved | 3.6.0/4.1.0 |
| RP-010379 | 25.423 | 3.5.0/4.0.0 | Agreed CRs (2) | approved | 3.6.0/4.1.0 |
| RP-010380 | 25.423 | 3.5.0/4.0.0 | Agreed CRs (3) | approved | 3.6.0/4.1.0 |

## CRs to TS 25.427: UTRAN Iur and Iub interface user plane protocols for DCH data streams

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010381 | 25.427 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

## CRs to TS 25.430: UTRAN Iub Interface: General Aspects and Principles

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010382 | 25.430 | 3.5.0/4.0.0 | Agreed CRs | approved | 3.6.0/4.1.0 |

## CRs to TS 25.433: NBAP specification

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010383 | 25.433 | 3.5.0/4.0.0 | Agreed CRs (1) | approved | 3.6.0/4.1.0 |
| RP-010384 | 25.433 | 3.5.0/4.0.0 | Agreed CRs (2) | approved | 3.6.0/4.1.0 |
| RP-010385 | 25.433 | 3.5.0/4.0.0 | Agreed CRs (3) | approved | 3.6.0/4.1.0 |

## CRs to TS 25.435: UTRAN Iub interface user plane protocols for CCH data streams

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010386 | 25.435 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

## CRs to TR 25.931: UTRAN Functions, Examples on Signalling Procedures

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010387 | 25.931 | 3.3.0/4.0.0 | Agreed CRs | approved | 3.4.0/4.1.0 |

## Reports from WG3 for information

| Tdoc | Agreed as report | Presented as version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010388 | 30.531 | 0.9.0 | Workplan | noted | 0.9.0 |

## 8.3.4 Approval of CRs (Rel-4) from TSG-RAN WG3

### CRs to TS 25.401: UTRAN Overall Description

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010389 | 25.401 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.402: Synchronisation in UTRAN Stage 2

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010390 | 25.402 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.410: UTRAN Iu Interface: General Aspects and Principles

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010391 | 25.410 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.413: UTRAN Iu interface RANAP signalling

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010392 | 25.413 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.415: UTRAN Iu interface user plane protocols

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010393 | 25.415 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.423: UTRAN Iur interface RNSAP signalling

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010394 | 25.423 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.427: UTRAN Iur and Iub interface user plane protocols for DCH data streams

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010395 | 25.427 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.433: NBAP specification

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010396 | 25.433 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.434: UTRAN Iub interface data transport & transport signalling for CCH data streams

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010397 | 25.434 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.435: UTRAN Iub interface user plane protocols for CCH data streams

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010398 | 25.435 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**CRs to TR 25.850: UE positioning in UTRAN Iub/Iur protocol aspects**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010399 | 25.850 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

# 8.4 TSG-RAN WG4

## 8.4.1 Report from TSG-RAN WG4

**RP-010346 Status Report WG4 (TSG-RAN WG4 Chairman)**
Howard Benn (Chairman TSG-RAN WG4) presented this report.
**Presentation:**
- The number and magnitude of corrections to the BTS and UE R'99 specifications is reducing, and yet again significant progress had been made on the RRM documents. Only minor corrections to the RRM documents should be expected in future meetings.
- In the RAN #11 meeting it was highlighted that more detailed simulations to study the effect of compressed mode would be required. Additional simulations have been presented which show a maximum of 12 % reduction in capacity when compressed mode is active.
- The number of documents being covered in the meeting was increasing, at meeting #14 there were a total of 341 inputs.

**Decision:** The report was noted.

## 8.4.2 Discussions on decisions from TSG-RAN WG4

**RP-010439 Elimination of TFCs based on power requirements (Qualcomm)**
Francesco Grilli (Qualcomm) presented this document.
**Discussion:** The document explained that there was a conflict between CR 109 and CR 110 to 25.133 on the one hand and the current WG2 specifications on the other hand, and that therefore two alternative CRs (124 and 125) were provided. In answer to concerns from WG4, it was explained that nothing had changed in WG2; in WG2 only the model was described. The problem was "MAC shall request RLC..." that mandates internal behaviour (between two layers) in an implementation.
**Decision:** The document was noted.

**RP-010440 Replaced CR 124 (R'99) and CR 125 (Rel-4 Category A) to 25.133 (Qualcomm)**
This document was replaced by RP-010477.

**RP-010477 Replaced CR 124r1 (R'99) and CR 125r1 (Rel-4 Category A) to 25.133 (Qualcomm)**
This document was replaced by RP-010495.

**RP-010495 Approved CR 124r2 (R'99) and CR 125r2 (Rel-4 Category A) to 25.133 (Qualcomm)**
**Decision:** The CRs were **approved** (see 8.4.3).

## 8.4.3 Approval of CRs (R'99 and Rel-4 Category A) from TSG-RAN WG4

**CRs to TS 25.101: UE Radio transmission and reception (FDD)**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010347 | 25.101 | 3.6.0/4.0.0 | Agreed CRs | approved 1) 2) | 3.7.0/4.1.0 |

1) CR 101 and CR 102 were for UMTS 1900. Consistent with earlier decisions, these CRs were **rejected**. It was commented that the changes necessary for UMTS 1900 should not be in R'99, but in Rel-5 (because of the decisions in the previous TSG-RAN plenary on release-independency). The

easiest for ITU-R would be to refer to 25.307. It was proposed that the scope of 25.307 could be extended to cover the network side. Whether these CRs were still needed then remained to be seen. It was explained that on receiver sensitivity and channel raster there would be a conflict if it was re-specified in Rel-5. It was commented also that there were consequences outside the scope of TSG-RAN also (such as on tests) depending on the decision taken on this. This would need to be discussed in the next WG4 meeting and WG4 was requested to keep WG2 and other impacted WGs informed of the conclusions. This issue would be revisited when the final decisions on UMTS 1800 and UMTS 1900 would be taken.

2) CR 105 and CR 106 were contradictory to Japanese regulations. More discussion was needed withinWG4 before any acceptable correction could be incorporated. These CRs were **rejected**.

### CRs to TS 25.102: UE Radio transmission and reception (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010348 | 25.102 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

### CRs to TS 25.104: BTS Radio transmission and reception (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010349 | 25.104 | 3.6.0/4.0.0 | Agreed CRs | approved 1) | 3.7.0/4.1.0 |

1) CR 073 and CR 074 were **rejected** as they were related to UMTS 1900 (in line with the discussion above).

### CRs to TS 25.105: BTS Radio transmission and reception (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010350 | 25.105 | 3.6.0/4.0.0 | Agreed CRs | approved | 3.7.0/4.1.0 |

### CRs to TS 25.123: Requirements for support of Radio Resource Management (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010351 | 25.123 | 3.5.0/4.0.0 | Agreed CRs (1) | approved | 3.6.0/4.1.0 |
| RP-010352 | 25.123 | 3.5.0/4.0.0 | Agreed CRs (2) | approved | 3.6.0/4.1.0 |

### CRs to TS 25.133: Requirements for support of Radio Resource Management (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010353 | 25.133 | 3.5.0/4.0.0 | Agreed CRs (1) | approved | 3.6.0/4.1.0 |
| RP-010354 | 25.133 | 3.5.0/4.0.0 | Agreed CRs (2) | approved 1) | 3.6.0/4.1.0 |
| RP-010440 | 25.133 | 3.5.0/4.0.0 | Proposed CR 124 and CR 125 | replaced by RP-010477 | - |
| RP-010477 | 25.133 | 3.5.0/4.0.0 | Proposed CR 124r1 and CR 125r1 | replaced by RP-010495 | - |
| RP-010495 | 25.133 | 3.5.0/4.0.0 | Proposed CR 124r2 and CR 125r2 | approved | 3.6.0/4.1.0 |

1) CR 109 and CR 110 were **replaced** by CR 124 and CR 125 in RP-010440, which in turn was replaced by RP-010477, which in turn was replaced by RP-010495.

### CRs to TS 25.141: Base station conformance testing (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010355 | 25.141 | 3.5.0/4.0.0 | Agreed CRs | approved | 3.6.0/4.1.0 |

### CRs to TS 25.142: Base station conformance testing (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010356 | 25.142 | 3.5.0/4.0.0 | Agreed CRs | approved | 3.6.0/4.1.0 |

### CRs to TR 25.942: RF System Scenarios

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010357 | 25.942 | 3.0.0~~/4.0.0~~ | Agreed CRs | approved | 3.1.0/~~4.1.0~~ |

## 8.4.4 Approval of CRs (Rel-4) from TSG-RAN WG4

### CRs to TS 25.101: UE Radio transmission and reception (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010358 | 25.101 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.102: UE Radio transmission and reception (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010359 | 25.102 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.104: BTS Radio transmission and reception (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010360 | 25.104 | 4.0.0 | Agreed CRs | replaced by RP-010467 | - |
| RP-010467 | 25.104 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.105: BTS Radio transmission and reception (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010361 | 25.105 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.113: Base station EMC

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010362 | 25.113 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.123: Requirements for support of Radio Resource Management (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010363 | 25.123 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.133: Requirements for support of Radio Resource Management (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010364 | 25.133 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

### CRs to TS 25.141: Base station conformance testing (FDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010365 | 25.141 | 4.0.0 | Agreed CRs | withdrawn | - |

### CRs to TS 25.142: Base station conformance testing (TDD)

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010366 | 25.142 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**CRs to TS 25.143: UTRA Repeater; Conformance Testing**

| Tdoc | Related spec. | Current version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010367 | 25.143 | 4.0.0 | Agreed CRs | approved | 4.1.0 |

**Reports from WG4 for approva**

| Tdoc | Agreed as spec | Presented as version | Title | Result | Final version |
|---|---|---|---|---|---|
| RP-010437 | 25.943 | 2.1.0 | Deployment aspects | approved | 4.0.0 |

## 8.5 ITU Ad Hoc

**RP-010421 Status Report (ITU-R Ad Hoc Contact Person)**
Giovanni Romano (TILab) presented this report.
**Discussion:** It was commented that there might be a change of schedule due to discussions with ITU-R.
**Decision:** The report was noted.

**RP-010422 Terminology used within 3GPP (ITU-R Ad Hoc)**
Giovanni Romano (TILab) presented this report.
**Discussion:** The document belonged to TSG-SA and could therefore not formally be approved.
**Decision:** The document was noted. The contents were endorsed pending decision on the version to be distributed after discussion in TSG-SA.

**RP-010423 Update submission for CDMA DS and CDMA TDD (ITU-R Ad Hoc)**
Giovanni Romano (TILab) presented this report.
**Discussion:** There was a question on the criteria that determined what was included and what not. On smart antennas it was commented that this had been deleted as a WI already in TSG-RAN #10. However, it was supported already to some extent. It was commented that the document should contain what was important, for visibility, and did not need to be exhaustive. Input was needed to explain the release-independency of frequency bands. There were some detailed comments that would be taken into account. This was only a draft, so comments were still possible. It was important that the final version reflected the correct information for ITU-R WP8F. A drafting session would be held for Annex 1.
**Decision:** The document was noted. Annex 2, 3, 4, 5, 6, 7, 8 and 9 were approved.An update was provided in RP-010489.

**RP-010489 Update submission for CDMA DS and CDMA TDD (ITU-R Ad Hoc drafting group)**
Giovanni Romano (TILab) presented this report.
**Decision:** The document was noted. All annexes were approved. The contents of this document would be submitted to ITU-R. The WGs were also tasked to consider the information that needs to be submitted to ITU-R in September.

**RP-010424 Reminder for the OPs on the compliance with ITU-R procedures & on the transposition of 3GPP Specs (ITU-R Ad Hoc)**
Giovanni Romano (TILab) presented this report.
**Decision:** The document was approved. Francois Courau (Chairman) would forward it to PCG.

# 9 Release 5 and beyond

## General

**RP-010451 Work plan (MCC)**
The document was for information.

**RP-010452 MCC review of the Work Plan (MCC)**
Hans van der Veen (Secretary) and Francois Courau (Chairman) presented this document.
**Discussion:** The intention was to provide a more user-friendly overview of the status of the WIs for information (prior to the TSG-RAN, TSG-CN and TSG-T meetings).
**Decision:** The document was noted.

**RP-010296 Work Item sheets - Latest situation (Secretary)**

**RP-010297 Historic Work Item sheets (Secretary)**
**Decisions per Work Item:**
1. *Low chip rate TDD option*.
   Moved to Historic Work Item sheets.
2. *Base station classification*.

3. *FDD Base station classification*.

4. *TDD Base station classification*.

5. *UE positioning in UTRA TDD*.
   Replaced by 34. and 35.
6. *UE positioning in UTRA FDD*.
   Replaced by 34. and 35.
7. *Hybrid ARQ II/III*.

8. *NodeB Synchronisation for TDD*.
   Moved to Historic Work Item sheets.
9. *UTRA FDD Repeater Specification*.
   Moved to Historic Work Item sheets.
10. *QoS optimization for AAL type 2 connections over Iub and Iur interfaces.*
    Moved to Historic Work Item sheets.
11. *Terminal power saving features*.

12. *PS-Domain handover for real-time services.*
    Moved to Historic Work Item sheets.
13. *RAB Quality of Service Negotiation/Renegotiation over Iu*.
    Moved to Historic Work Item sheets.
14. *RRM optimizations for Iur and Iub.*

15. *Radio access bearer support enhancement.*

16. *Improvement of inter-frequency and inter-system measurements.*

17. *Improved usage of downlink resource in FDD for CCTrCHs of dedicated type*.

18. *IP Transport in UTRAN.*

19. *Transcoder Free Operations in UTRAN*
    Moved to Historic Work Item sheets.
20. *Evolution of the transport in the UTRAN.*

21. *Radio Interface Improvement Feature.*

22. *RAN Improvement Feature.*

23. *UE Positioning.*

24. *Void.*
    This Work Item was deleted in TSG-RAN #9.
25. *Void.*
    This Work Item was deleted in TSG-RAN #10.
26. *Low Chip Rate TDD Physical Layer.*
    Moved to Historic Work Item sheets.
27. *Low chip rate TDD layer 2 and layer 3 protocol aspects.*
    Moved to Historic Work Item sheets.
28. *Low Chip Rate TDD RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing.*
    Moved to Historic Work Item sheets.
29. *Void.*
    This Work Item was deleted in TSG-RAN #10.
30. *Low Chip Rate TDD UE radio access Capability.*
    Moved to Historic Work Item sheets.
31. *Low chip rate TDD UTRAN network Iub/Iur protocol aspects.*
    Moved to Historic Work Item sheets.
32. *RAB Quality of Service Negotiation over Iu.*
    Moved to Historic Work Item sheets.
33. *RAB Quality of Service Renegotiation over Iu.*
    Moved to Historic Work Item sheets.
34. *Iub/Iur interfaces for UE positioning methods supported on the radio interface release 99.*
    Moved to Historic Work Item sheets.
35. *UE positioning enhancements.*

36. *RAN Technical Small Enhancements and Improvements.*
    This WI sheet was replaced by the general WI for all TSGs established during the TSG-SA meeting in Bangkok. Therefore no further action was required within TSG-RAN.
37. *DSCH power control improvement in soft handover.*
    Moved to Historic Work Item sheets.
38. *Transport bearer modification procedure on Iub, Iur and Iu (was: Migration to Modification procedure).*
    Moved to Historic Work Item sheets.
39. *UMTS 1800.*

40. *RAN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes.*

41. *RAB Quality of Service Negotiation over Iu during relocation.*

42. *Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning.*

43. *High Speed Downlink Packet Access (HSDPA).*

44. *High Speed Downlink Packet Access (HSDPA) - Physical Layer.*

45. *High Speed Downlink Packet Access (HSDPA) - layer 2 and 3 aspects.*

46. *High Speed Downlink Packet Access (HSDPA) - Iub/Iur Protocol Aspects.*

47. *High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing.*

48. *Multiple Input Multiple Output antennas (MIMO).*

49. *Gated DPCCH Transmission*.

50. *UMTS 1900*.

51. *Enhancement on the DSCH hard split mode*.

52. *NodeB Synchronisation for 1.28 Mcps TDD*.

53. *RL Timing Adjustment*.

54. *Separation of resource reservation and radio link activation*.

55. *Traffic Termination Point Swapping*.

56. *Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods*.

57. *UE positioning enhancements for 1.28 Mcps TDD.*

**RP-010298 Study Item sheets - Latest situation (Secretary)**

**RP-010299 Historic Study Item sheets (Secretary)**
**Decisions per Study Item:**

1. *Radio link performance enhancements*.

2. *High speed downlink packet access*.
   Moved to Historic Study Item sheets.
3. *USTS*.

4. *Feasibility Study for Improved Common DL Channel for Cell-FACH State*.

5. *Feasibility Study of UE antenna efficiency test methods performance requirements.*

6. *Fast Cell Selection (FCS) for HS-DSCH*.

7. *Improvement of Radio Resource Management across RNS and RNS/BSS*.

8. *Mitigating the Effect of CPICH Interference at the UE*.

9. *Re-introduction of the downlink SIR measurement*.

**IMPORTANT:**

**1) The WGs shall present finished CRs for Rel-5 WIs to the TSG-RAN plenary. On a case-by-case basis, the TSG-RAN plenary will decide whether to approve them immediately (and thus create new Rel-5 versions of the specifications), or to keep them "on hold".**

**Only if it is already known that the WI is not finished in this WG, it is not useful to bring the CRs to the plenary.**

**2) WGs are reminded that TRs/TSs should not normally be presented to TSG-RAN unless they are 50% complete (and thus in version 1.0.0). Otherwise the content of the published document could be taken as valid whereas the version number indicates completely unstable information that should not be provided to the outside world.**

## 9.1 Radio Interface Improvement Feature

### 9.1.1 Improvement of inter-frequency and inter-system measurements

Status

There was no progress on this WI. The completion date would be left as is.

### 9.1.2 Base Station Classification

### 9.1.3 TDD Base station classification

Status

**RP-010459 Status Report WI "TDD Base Station Classification" (Rapporteur)**
Antti Toskala (Rapporteur) presented this status report.
**Discussion:** The work was completed, but in order to avoid having to maintain Rel-5 specifications, it was proposed not to approve CRs before December. It was debated at some length what was the best way to have visibility at plenary level while not burdening WGs with too early approval. See the bold text with purple background above.
**Decision:** The status report was noted. For the decision on the visibility, see the bold text with purple background above.

**RP-010458 Cover sheet for TR 25.952 (TSG-RAN WG4)**

**RP-010457 TR 25.952 v2.0.0 "TDD Base Station Classification" (TSG-RAN WG4)**
Antti Toskala (Rapporteur) presented this TR.
**Decision:** The TR was **approved** as v5.0.0 and it was placed under change control.

### 9.1.4 FDD Base Station Classification

Status

**RP-010462 Status Report WI "FDD Base Station Classification" (Rapporteur)**
Antti Toskala (Rapporteur) presented this status report.

**Discussion:** The editor of the TR had changed. This would need to be changed in the database.
**Decision:** The status report was noted.

### 9.1.5 Improved usage of downlink resource in FDD for CCTrCHs of dedicated type

Status

There was no progress on this WI. The completion date would be left as is.

### 9.1.6 Gated DPCCH Transmission (situation to be revisited based on decision by WG1, WG2 and WG3)

Status

**RP-010418 Status Report WI "Gated DPCCH Transmission" (Rapporteur)**
Yongjun Kwak (Rapporteur) presented this status report.
**Discussion:** There had been a joint meeting between WG1, WG2 and WG3 during their co-located meeting in Korea (21-25 May). It was not justified for WG1 to continue on this topic unless the view in WG2 and WG3 changed. It was proposed to remove this WI.
**Decision:** The status report was noted.

**RP-010417 Revised WI sheet for WI "Gated DPCCH Transmission" (Samsung)**
This document was withdrawn.

### 9.1.7 Terminal power saving features

Status

**RP-010470 Revised WI sheet for WI "Terminal power saving features" (Rapporteur)**
This document was replaced by RP-010485.

**RP-010485 Revised WI sheet for WI "Terminal power saving features" (Samsung Electronics, Nortel Networks, Nokia)**
Denis Fauconnier (Nortel Networks) presented this revised WI sheet.
**Decision:** The WI sheet was approved.

### 9.1.8 UMTS 1800

Status

**RP-010464 Status Report WIs "UMTS 1800" and "UMTS 1900" (Rapporteur)**
Howard Benn (Rapporteur) presented this status report.
**Discussion:** The completion date was foreseen to be the next plenary meeting. It was explained that various groups had already been involved and that information had been exchanged. Vodafone's view on the status of the simulations were that they were not comprehensive and did not fully address all scenarios especially relating to European deployment.
**Decision:** The status report was noted.

**CRs for this Work Item**

| Tdoc | Related WG | Title | Result |
|---|---|---|---|
| RP-010324 | WG2 | Agreed CRs | postponed 1) |

1) Since the WI had not been finished yet, this CR was **postponed**.

## 9.1.9 UMTS 1900

Status

See RP-010464 in Agenda Item 9.1.8

**RP-010476 Proposed UMTS1800/1900 WI Work Schedule (AT&T Wireless Services, Cingular Wireless LLC)**
Donglin Shen (AT&T WS) presented this document.
**Discussion:** It would be good to create a new document similar to the RF Scenarios TR, but for Rel-5 only. For the signalling, WG2 should be involved.
**Decision:** The document was noted. WG4 was requested to consider this document for its time plan and to take action as necessary.

## 9.1.10 Multiple Input Multiple Output antennas (MIMO)

Status

Discussion has started on the e-mail exploder. The completion date would be left as is.

## 9.1.11 Enhancement on the DSCH hard split mode

Status

**RP-010419 Status Report WI "Enhancement on the DSCH hard split mode" (Rapporteur)**
Yongjun Kwak (Rapporteur) presented this status report.
**Decision:** The status report was noted.

**RP-010420 TR 25.870 v0.1.0 "Enhancement on the DSCH hard split mode" (Rapporteur)**
This document was replaced by RP-010468.

**RP-010468 TR 25.870 v0.1.0 "Enhancement on the DSCH hard split mode" (Rapporteur)**
Yongjun Kwak (Rapporteur) presented this TR.
**Discussion:** Francois Courau (Chairman) repeated that TRs/TSs should not normally be presented to TSG-RAN unless they were 50% complete (and thus in version 1.0.0).
**Decision:** The TR was **noted**.

**RP-010433 Revised WI sheet for WI "Enhancement on the DSCH hard split mode" (Rapporteur)**
This document was replaced by RP-010469.

**RP-010469 Revised WI sheet for WI "Enhancement on the DSCH hard split mode" (Rapporteur)**
Yongjun Kwak (Rapporteur) presented this status report.
**Decision:** The WI sheet was approved.

## 9.2 RAN Improvement Feature

### 9.2.1 NodeB Synchronisation for 1.28 Mcps TDD

Status

Only a TR outline was agreed. No further work had been done. Completion date would be unchanged.

### 9.2.2 Radio access bearer support enhancement

Status

No progress since the previous plenary. Completion date would be unchanged (it was a "basket" WI).

### 9.2.3 Radio Link Timing Adjustment

Status

**RP-010407 Status Report WI "Radio Link Timing Adjustment" (TSG-RAN WG3)**
Martin Israelsson (TSG-RAN WG3 Chairman) presented this status report.
**Discussion:** There was no change of the completion date.
**Decision:** The status report was noted.

### 9.2.4 Separation of resource reservation and radio link activation

Status

**RP-010409 Status Report WI "Separation resource reservation and activation" (TSG-RAN WG3)**
Martin Israelsson (TSG-RAN WG3 Chairman) presented this status report.
**Discussion:** There was no change of the completion date.
**Decision:** The status report was noted.

**RP-010487 Revised WI sheet for WI "Separation of resource reservation and radio link activation" (Nortel Networks, Ericsson)**
Denis Fauconnier (Nortel Networks) presented this revised WI sheet.
**Decision:** The WI sheet was approved.

### 9.2.5 Traffic Termination Point Swapping

Status

**RP-010410 Status Report WI "Traffic Termination Point Swapping" (TSG-RAN WG3)**
Martin Israelsson (TSG-RAN WG3 Chairman) presented this status report.
**Discussion:** There was no change of the completion date. The name would be changed to "Re-arrangement of Iub Transport Bearers".
**Decision:** The status report was noted.

**RP-010465 Revised WI sheet for WI "Traffic Termination Point Swapping" (Rapporteur)**
Antti Toskala (Rapporteur) presented this revised WI sheet.
**Decision:** The WI sheet was approved.

# 9.3 Evolution of the transport in the UTRAN

## 9.3.1 IP transport in UTRAN

Status

**RP-010405 Status Report WI "IP Transport" (TSG-RAN WG3)**
Martin Israelsson (TSG-RAN WG3 Chairman) presented this status report.
**Discussion:** The issue on IPv4 and IPv6 was very difficult and had cost TSG-RAN WG3 a lot of time. It was better to have an agreement in TSG-RAN. It was explained that should a vote be necessary, a certain time was needed to announce it in advance, which meant that the WG3 meeting in August was the earliest opportunity to take such a vote. A discussion was held with CN delegates present, see RP-010416 in agenda item 8.3.1.
**Decision:** The status report was noted.

**RP-010425 TR 25.933 v1.1.0 "IP transport in UTRAN" (TSG-RAN WG3)**
Martin Israelsson (TSG-RAN WG3 Chairman) presented this TR.
**Decision:** The TR was **noted**.

# 9.4 UE Positioning

## 9.4.1 UE positioning enhancements

Status

See RP-010411 (in agenda item 8.2.1).

## 9.4.2 UE positioning enhancements for 1.28 Mcps TDD

Status

There was no progress on this WI. The completion date would be left as is.

## 9.4.3 Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning

Status

**RP-010327 Status report WI "Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning" (Rapporteur)**
Vince Jolley (Rapporteur) presented this status report.
**Decision:** The status report was noted.

**RP-010414 Revised WI Sheet for WI "Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning" (Qualcomm)**
Vince Jolley (Rapporteur) presented this revised WI sheet.
**Decision:** The WI sheet was approved.

**RP-010400TS 25.450 v2.0.0 (TSG-RAN WG3)**
Vince Jolley (Rapporteur) presented this TS.
**Discussion:** It was asked whether other positioning methods could be added to this TS at a later stage.
**Decision:** The TS was **approved** as v5.0.0 and it was placed under change control. WG2 and WG3 would consider the question on other positioning methods (based on other WIs) from architectural point of view and WG3 would discuss subsequently whether such other positioning methods would be covered in this specification or in new ones.

**RP-010401TS 25.451 v2.0.0 (TSG-RAN WG3)**
Vince Jolley (Rapporteur) presented this TS.
**Decision:** The TS was **approved** as v5.0.0 and it was placed under change control.

**RP-010402TS 25.453 v2.0.0 (TSG-RAN WG3)**
Vince Jolley (Rapporteur) presented this TS.
**Discussion:** It was clarified that the specification (and the previons ones) was not frozen at this stage; if approved, it only meant at this stage that it would be under change control.
**Decision:** The TS was **approved** as v5.0.0 and it was placed under change control.

**CRs for this Work Item**

| Tdoc | Related WG | Title | Result |
|---|---|---|---|
| RP-010325 | WG2 | Agreed CRs | approved |
| RP-010403 | WG3 | Agreed CRs | approved 1) |

1) It was commented that the architecture picture could need to be updated to make it more general for other positioning methods. However, this would be based on other WIs.

### 9.4.4 Open interface between the SMLC and the SRNC within the UTRAN to support UTRAN Rel-4 Positioning

Status

There had been a proposed TR skeleton, which would be discussed by e-mail as there had been no time in the last meeting to handle it. The completion date would be left as is.

## 9.5 RAN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes

Status

**RP-010406Status Report WI "NAS Node Selector Function (RAN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes)" (TSG-RAN WG3)**
Martin Israelsson (TSG-RAN WG3 Chairman) presented this status report.
**Discussion:** The work was waiting for input from TSG-SA WG2.
**Decision:** The status report was noted.

## 9.6 High Speed Downlink Packet Access (HSDPA)

Status

**RP-010328Status report WIs "HSDPA and HSDPA - layer 2 and 3 aspects" (Rapporteur)**
Denis Fauconnier (TSG-RAN WG2 Chairman) presented this status report.

**Discussion:** WG1 and WG2 had made significant progress and had had two joint meetings. WG3 had started looking at HSDPA and would start work in earnest with a joint meeting with WG2 in August. For WG4 no issues had been identified yet.
**Decision:** The status report was noted.

**RP-010345 TR 25.855 v1.0.0 "High Speed Downlink Packet Access; Overall UTRAN Description" (TSG-RAN WG2)**
Denis Fauconnier (TSG-RAN WG2 Chairman) presented this TR.
**Discussion:** There was a question about a discrepancy between this TR and the WG1 report. The TR was for information only at this stage and more details on the physical layer aspects would be worked out. The discrepancy would be taken into account. On the question of possible impact on current hardware, this was in the open issues list only, so it was not clear whether or not there would be such an impact (WG1 and WG2 would be considering this).
**Decision:** The TR was **noted**.

### 9.6.1 High Speed Downlink Packet Access (HSDPA) - *Physical Layer*

Status

**RP-010461 Status Report WI "HSDPA - Physical layer aspects" (Rapporteur)**
Antti Toskala (TSG-RAN WG1 Chairman) presented this status report.
**Discussion:** It was commented that some of the simulations did not follow the assumptions from the Vodafone contribution to the joint WG1/WG2 meeting in Sophia Antipolis. It was difficult to guarantee system capacity simulations would follow these assumptions, although it could be recommended.
**Decision:** The status report was noted. The contribution would be distributed again on the WG1 reflector.

### 9.6.2 High Speed Downlink Packet Access (HSDPA) - *layer 2 and 3 aspects*

Status

See RP-010328 (agenda item 9.6).

### 9.6.3 High Speed Downlink Packet Access (HSDPA) - *Iub/Iur Protocol Aspects*

Status

**RP-010404 Status Report WI "HSDPA Iub/Iur protocol aspects" (TSG-RAN WG3)**
**Discussion:** The WG3 status was already covered in RP-010328.
**Decision:** The status report was noted.

### 9.6.4 High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing

Status

No issues had been identified yet.

## 9.7 Technical Small Enhancement and Improvements

There was no input for this agenda item.

# 9.8 Study Items:

## 9.8.1 Radio link performance enhancements

Status

**RP-010478 Status Report SI "Radio link performance enhancements" (Rapporteur)**
Antti Toskala (TSG-RAN WG1 Chairman) presented this status report.
**Decision:** The status report was noted.

**RP-010344 TR 25.869 v1.0.0 "RAN WG1 report on Tx diversity solutions for multiple antennas" (TSG-RAN WG1)**
This document was replaced by RP-010471.

**RP-010471 TR 25.869 v1.0.0 "RAN WG1 report on Tx diversity solutions for multiple antennas" (TSG-RAN WG1)**
Yongjun Kwak (Rapporteur) presented this TR.
**Decision:** The TR was **noted**.

## 9.8.2 USTS

Status

**RP-010427 Status Report SI "USTS" (Rapporteur)**
Jin Hyo Park (Rapporteur) presented this status report.
**Discussion:** There were several comments indicating that it was not clear what the performance gain of USTS was. It was stated that the incremental gain should be shown, taking into account what was already in existing releases (interference cancellation, beamforming etc.). The simulations seemed not to have taken this into account. In answer to this, it was explained that USTS was intended for a different environment than for instance interference cancellation. It was explained that the only result asked for so far was to create a WI USTS, not whether USTS should be taken into the specifications. However, it was stated that the simulations did not take the system view into account, only the layer 1 view.
**Decision:** The status report was noted. WG1 would review the simulation to be performed during the Ad Hoc group meeting, and comments/requirements on the simulations should be provided for that meeting. Any resulting actions should be considered at the regular WG1 meeting.

**RP-010428 TR 25.854 v1.0.0 "USTS" (Rapporteur)**
**Decision:** The TR was **noted**.

**RP-010426 TR 25.839 v0.2.0 "USTS" (TSG-RAN WG3)**
**Decision:** The TR was **noted**.

**RP-010429 Proposed WI "USTS" (SK Telecom)**
The document was not treated due to the outcome of the discussion on RP-010427.

### 9.8.3 Feasibility Study for Improved Common DL Channel for Cell-FACH State

Status

There has been no activity. Work was still pending in WG1. The completion date would be changed to TSG-RAN #14. WG1 should provide an answer, so that WG2 can provide the status at TSG-RAN #13.

### 9.8.4 Feasibility Study of UE antenna efficiency test methods performance requirements

Status

**RP-010432 Status Report SI "Feasibility Study of UE antennas" (Rapporteur)**
Olle Edvardsson (Rapporteur) presented this status report.
**Discussion:** It was commented that it was easy to make a comparative study of different antennas at the same test site. However, measuring the same equipment using the same method in different laboratories may lead to the same equipment passing in one laboratory and being rejected in another one. The only way to make a reliable decision was to know tolerances that had been achieved during measurements of the same equipment in several laboratories.
**Decision:** The status report was noted.

### 9.8.5 Fast Cell Selection (FCS) for HS-DSCH

Status

There was no progress, but the completion date should remain the same.

### 9.8.6 Improvement of Radio Resource Management across RNS and RNS/BSS

Status

**RP-010408 Status Report SI "Improvement RRM across RNS and RNS/BSS" (TSG-RAN WG3)**
Antti Toskala (Rapporteur) presented this status report.
**Decision:** The status report was noted.

**RP-010480 Revised SI Sheet for SI "Improvement of Radio Resource Management across RNS and RNS/BSS" (Rapporteur)**
Antti Toskala (Rapporteur) presented this revised SI sheet.
**Discussion:** There was a need for some co-ordination between WG1, WG2 and TSG-GERAN WG2. This would be taken care of.
**Decision:** The SI sheet was approved.

### 9.8.7 Mitigating the Effect of CPICH Interference at the UE

Status

**RP-010430 Status Report SI "Mitigating the Effect of CPICH Interference at the UE" (Rapporteur)**
Shimon Moshavi (Rapporteur) presented this status report.
**Decision:** The status report was noted.

**RP-010431 Revised SI Sheet for SI "Mitigating the Effect of CPICH Interference at the UE" (Rapporteur)**
Shimon Moshavi (Rapporteur) presented this revised SI sheet.
**Decision:** The SI sheet was approved.

### 9.8.8 Re-introduction of the downlink SIR measurement

Status

**RP-010434 Proposed SI sheet for SI "Re-introduction of SIR measurement" (TIM/TILAB, Blu, Ericsson, Mobilkom Austria, One2One, Telefonica)**
Giovanni Romano (TILab) presented this SI sheet.
**Discussion:** This SI covered the SIR measurement for dedicated channel only, and did not apply to the measurement on CPICH.
**Decision:** The SI sheet was approved.

## 9.9 New Work Items

**RP-010413 Proposed WI "Wideband Distribution Systems" (Tekmar Sistemi)**
Andrea Casini (Tekmar Sistemi) presented this WI proposal.
**Discussion:** This should be a Study Item since the proposal involved a new entity that could modify the Node B behaviour, and could therefore also impact WG2 and WG3 (apart from WG4), and TSG-SA WG5. Infrastructure sharing was another issue, and there were more topics brought up. This needed to be taken into account.
**Decision:** The WI was approved as a Study Item. The WI sheet needed to be revised to an SI sheet to reflect this and to incorporate the comments. This was done in RP-010488.

**RP-010488 Proposed SI "Wideband Distribution Systems" (Tekmar Sistemi)**
Andrea Casini (Tekmar Sistemi) presented this SI proposal.
**Decision:** The SI was approved. The SI sheet was approved.

**RP-010450 Proposed WI "Base Station Classification for 1.28 Mcps TDD option" (Siemens)**
Meik Kottkamp (Siemens) presented this WI proposal.
**Decision:** The WI was approved. The WI sheet was approved.

**RP-010460 Proposed WI "Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN" (Nokia, Hutchison 3G, Omnitel/Vodafone)**
Antti Toskala (Nokia) presented this WI proposal.
**Discussion:** This was the WI that had been rejected in TSG-SA #11. The proposed WI in TSG-SA WG1 did not mention any work for TSG-RAN. The WI sheet should be updated to shift the completion date.
**Decision:** The WI was approved on condition that TSG-SA agrees to have this work done. On the same condition, with the comments made, the WI sheet was approved.

**RP-010463 Proposed WI "SRNS relocation enhancement" (Nokia)**
Antti Toskala (Nokia) presented this WI proposal.
**Discussion:** It was asked what was the benefit of this proposal, since a solution was seen to be already there. It was better to make this a Study Item first with a completion date of TSG-RAN #13. The objective should also be adapted to make it more open.
**Decision:** The WI was approved as a Study Item. The WI sheet needed to be revised to an SI sheet to reflect this and to incorporate the comments. This was done in RP-010490.

**RP-010490 Proposed SI "SRNS relocation enhancement" (Nokia, Nortel Networks)**
Antti Toskala (Nokia) presented this WI proposal.
**Decision:** The SI was approved. The SI sheet was approved.

**RP-010472 Proposed WI "Direct transport bearers between SRNC and Node-B" (Ericsson)**
Per Beming (Ericsson) presented this WI proposal.
**Discussion:** For TSG-RAN, the change is very small, but it has major impact. For this reason it was proposed to become a Study Item, in order to study the consequences (on relocation for instance). There needed to be a link with the SI on SNRS relocation enhancement.
**Decision:** The WI was approved as a Study Item. The WI sheet needed to be revised to an SI sheet to reflect this and to incorporate the comments. This was done in RP-010492.

**RP-010492 Proposed SI "Direct transport bearers between SRNC and Node-B" (Ericsson)**
Per Beming (Ericsson) presented this WI proposal.
**Discussion:** The word "artificial" was agreed to be removed.
**Decision:** The SI was approved. The SI sheet was approved with this modification.

**RP-010473 Proposed WI "Iur Common Transport Channel Efficiency Optimisation" (Ericsson)**
Per Beming (Ericsson) presented this WI proposal.
**Decision:** The WI was approved. The WI sheet was approved.

**RP-010474 Proposed WI "Iur Neighbouring cell reporting Efficiency Optimisation" (Ericsson)**
Per Beming (Ericsson) presented this WI proposal.
**Discussion:** The WI sheet could be re-worded; it was a small issue. There was no reason to have a TR for this and this should be removed from the WI sheet.
**Decision:** The WI was approved. The WI sheet was approved. TSG-RAN WG3 was tasked to review the WI sheet for the next TSG-RAN plenary.

**RP-010475 Proposed WI "Vendor specific extensions in NBAP, RNSAP, RANAP and SABP messages" (Ericsson)**
Per Beming (Ericsson) presented this WI proposal.
**Discussion:** The proposal was intended to provide a tool to test new things before introducing them in the standardisation process. This type of feature had been approved for GSM in the past and it was commonly used in the Core Network. However, various operators strongly opposed the idea of vendor-specific extensions. It was warned that the consequence of rejection was that innovations would be delayed upto the point where standardisation could be achieved.
**Decision:** The WI was rejected. The issue would be brought up in the report to TSG-SA.

**RP-010483 Proposed WI "UE Specific beamforming with dedicated pilots" (Nokia)**
Antti Toskala (Nokia) presented this WI proposal.
**Discussion:** The work had been carried out to some extent already, but there was no WI for it. Francois Courau (Chairman) commented that it was a strange order to start the work first and ask for a WI after. It was commented that dedicated pilots had been part of the system for a long time. It was explained that it was not clear how the UE was supposed to behave in certain circumstances (reconfiguration). It was commented that the missing pieces seemed to be more WG1-related than WG4. It was stated that there was no overall TSG-RAN view at this stage and there seemed to be conflicts between assumptions in WG4 and scenarios in WG1, for instance. Also, having only a statement like "for all other cases the UE has to behave correctly" is not very helpful in implementation. Whether this WI would solve the problem was not totally clear. The two issues to look at were performance and procedures. A solution could also be found for R'99 instead of Rel-5.

**Decision:** The best solution was to allow possibility to implement it in R'99 or Rel-4 UEs with information provided in the UE capability and to make it mandatory for Rel-5. Antti Toskala (Nokia) was tasked to report what needed to be done in the different WGs (this implied that the WGs would need to do the necessary investigation) and what could be done with current R'99 UEs, preferably in one WG meeting cycle and to circulate the result on the TSG-RAN reflector for information and approval of the new WI sheet.

## 9.10 Overall RAN work plan

There was no input for this agenda item.

# 10 Technical co-ordination among WGs

There was no input for this agenda item.

# 11 Output to other groups

## 11.1 TSG-SA

There was no input for this agenda item.

## 11.2 ITU-R

**RP-010422 Terminology used within 3GPP (ITU-R Ad Hoc).**
See agenda item 8.5 above.

**RP-010489 Update submission for CDMA DS and CDMA TDD (ITU-R Ad Hoc drafting group)**
See agenda item 8.5 above.

## 11.3 Other

There was no input for this agenda item.

# 12 Project management

**RP-010442 CR to 21.101: "Correction to list of specs" (MCC)**
This document was provided for information.

**RP-010443 CR to 21.102: "Correction to list of specs" (MCC)**
This document was provided for information.

**RP-010444 1st draft 21.103: "3rd Generation mobile system Release 5 Specifications" (MCC)**
This document was provided for information.

**RP-010445 CR to 01.01: "GSM Release 1999 specifications. (MCC)**
This document was provided for information.

**RP-010446 CR to 41.102: "GSM Release 4 Specifications" (MCC)**
This document was provided for information.

**RP-010447 1st draft 41.103: "GSM Release 5 Specifications" (MCC)**
This document was provided for information.

**RP-010448 Specs status list prior to TSGs#12 (MCC)**
This document was provided for information.

**RP-010449 Spec numbers and titles (MCC)**
This document was provided for information.

# 13 Any Other Business

There was no input for this agenda item.

# 14 Closing of meeting

Francois Courau (Chairman) thanked Ericsson and Telia for the organisation of the meeting and the delegates for their attendance.

For future meetings, see Annex F.

# Annex A: List of delegates

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| 135. Mr. Cesar Gutierrez Miguelez | Mobile Competence Centre | FR | cesar.gutierrez@etsi.fr |
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# Annex B: List of documents

| Doc.No. | Title | Source | Ag.It. | Comments |
|---|---|---|---|---|
| RP-010280 | Proposed agenda | Chairman | 2 | |
| RP-010281 | Draft Report of the 11th TSG-RAN meeting (Palm Springs, CA, USA, 13-16 March 2001) | Secretary | 3 | |
| RP-010282 | Revised draft Report of the 11th TSG-RAN meeting (Palm Springs, CA, USA, 13-16 March 2001) | Secretary | 3 | |
| RP-010283 | Approved Report of the 11th TSG-RAN meeting (Palm Springs, CA, USA, 13-16 March 2001) | Secretary | 3 | |
| RP-010284 | (R1-010665, copy TSG-RAN) LS on Revision of Tdoc R1-010560 "Material to be submitted to ITU-R WP8F#5" | TSG-RAN WG1 | 7.3 | |
| RP-010285 | (R2-011480, copy TSG-RAN) LS on Requirements on UE positioning | TSG-RAN WG2 | 7.3 | |
| RP-010286 | (S2-010813, copy TSG-RAN) LS on Missing LCS QoS, Priority, Request type, Assistance data, Client type, Stop reporting type paramaters of Iu interface RANAP 25.413 (LOCATION REPORTING CONTROL and LOCATION REPORT messages) | TSG-SA WG2 | 7.1 | |
| RP-010287 | (S2-011572, to TSG-RAN) LS on Requirements on the Iu Interface | TSG-SA WG2 | 7.1 | |
| RP-010288 | (N4-010696, copy TSG-RAN) Response to LS (R3-010988) on Highlighting Requirements to RAN3 for SRNS relocation with TrFO | TSG-CN WG4 | 7.1 | |
| RP-010289 | (R3-011193, to TSG-RAN) LS on Clarification of Inter-vendor aspects of Node B static parameters | TSG-RAN WG3 | 7.3 | |
| RP-010290 | (R3-011267, copy TSG-RAN) LS on Review of UTRAN O&M Procedures TR32.800 | TSG-RAN WG3 | 7.3 | |
| RP-010291 | (R3-011284, copy TSG-RAN) Response to LS (S2-010813) on Missing LCS QoS, Priority, Request type, Assistance data, Client type, Stop reporting type parameters over Iu interface RANAP 25.413 | TSG-RAN WG3 | 7.3 | |
| RP-010292 | (R3-011287, copy TSG-RAN) LS on Feasibility of USTS in point of WG3 | TSG-RAN WG3 | 7.3 | |
| RP-010293 | (R3-011841, copy TSG-RAN) Response to LS (BRAN23d132) on HIPERACCESS | TSG-RAN WG3 | 7.3 | |
| RP-010294 | (T1-010159, copy TSG-RAN) LS on Establishment of an Ad Hoc for RRM test | TSG-T WG1 | 7.1 | |
| RP-010295 | (BRAN23d132, copy TSG-RAN) Response to LS (RP-010279) on HIPERLAN | EP BRAN | 7.2 | |
| RP-010296 | Work Item sheets - Latest situation | TSG-RAN Secretary | 9 | |
| RP-010297 | Historic Work Item sheets | TSG-RAN Secretary | 9 | |
| RP-010298 | Study Item sheets - Latest situation | TSG-RAN Secretary | 9 | |
| RP-010299 | Historic Study Item sheets | TSG-RAN Secretary | 9 | |
| RP-010300 | Report from WG2 chairman to TSG-RAN | TSG-RAN WG2 Chairman | 8.2.1 | |
| RP-010301 | Supplement (List of agreed R'99 and Rel-4 Category A CRs) to Report from WG2 chairman to TSG-RAN | TSG-RAN WG2 Chairman | 8.2.1 | |
| RP-010302 | CRs (R'99 and Rel-4 Category A) to TS 25.301 | TSG-RAN WG2 | 8.2.3 | |
| RP-010303 | CRs (R'99 and Rel-4 Category A) to TS 25.302 | TSG-RAN WG2 | 8.2.3 | |
| RP-010304 | CRs (R'99 and Rel-4 Category A) to TS 25.303 | TSG-RAN WG2 | 8.2.3 | |
| RP-010305 | CRs (R'99 and Rel-4 Category A) to TS 25.304 | TSG-RAN WG2 | 8.2.3 | |
| RP-010306 | CRs (R'99 and Rel-4 / Rel-5 Category A) to TS 25.305 | TSG-RAN WG2 | 8.2.3 | |
| RP-010307 | CRs (R'99 and Rel-4 Category A) to TS 25.306 | TSG-RAN WG2 | 8.2.3 | |
| RP-010308 | CRs (R'99 and Rel-4 Category A) to TS 25.321 | TSG-RAN WG2 | 8.2.3 | |
| RP-010309 | CRs (R'99 and Rel-4 Category A) to TS 25.322 | TSG-RAN WG2 | 8.2.3 | |
| RP-010310 | CRs (R'99 and Rel-4 Category A) to TS 25.323 | TSG-RAN WG2 | 8.2.3 | |
| RP-010311 | CRs (R'99 and Rel-4 Category A) to TS 25.331 (1) | TSG-RAN WG2 | 8.2.3 | |
| RP-010312 | CRs (R'99 and Rel-4 Category A) to TS 25.331 (2) | TSG-RAN WG2 | 8.2.3 | |
| RP-010313 | CRs (R'99 and Rel-4 Category A) to TS 25.331 (3) | TSG-RAN WG2 | 8.2.3 | |

| Doc.No. | Title | Source | Ag.It. | Comments |
|---|---|---|---|---|
| RP-010314 | CRs (R'99 and Rel-4 Category A) to TS 25.331 (4) | TSG-RAN WG2 | 8.2.3 | |
| RP-010315 | CRs (R'99 and Rel-4 Category A) to TS 25.331 (5) | TSG-RAN WG2 | 8.2.3 | |
| RP-010316 | CRs (R'99 and Rel-4 Category A) to TS 25.331 (6) | TSG-RAN WG2 | 8.2.3 | |
| RP-010317 | CRs (R'99 and Rel-4 Category A) to TS 25.331 (7) | TSG-RAN WG2 | 8.2.3 | |
| RP-010318 | CRs (R'99 and Rel-4 Category A) to TR 25.921 | TSG-RAN WG2 | 8.2.3 | |
| RP-010319 | CRs (R'99 and Rel-4 Category A) to TS 34.109 | TSG-RAN WG2 | 8.2.3 | |
| RP-010320 | CRs (Rel-4) to TS 25.302 | TSG-RAN WG2 | 8.2.4 | |
| RP-010321 | CRs (Rel-4) to TS 25.306 | TSG-RAN WG2 | 8.2.4 | |
| RP-010322 | CRs (Rel-4) to TS 25.321 | TSG-RAN WG2 | 8.2.4 | |
| RP-010323 | CRs (Rel-4) to TS 25.331 | TSG-RAN WG2 | 8.2.4 | |
| RP-010324 | CRs (Rel-5) for WI "UMTS 1800" | TSG-RAN WG2 | 9.1.8 | |
| RP-010325 | CRs (Rel-5) for WI "Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning" | TSG-RAN WG2 | 9.4.3 | |
| RP-010326 | TS 25.307 v2.0.0 "Requirements on UEs supporting a Release Independent Frequency Band" | TSG-RAN WG2 | 8.2.3 | |
| RP-010327 | Status report WI "Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning" | Rapporteur | 9.4.3 | |
| RP-010328 | Status report WIs "HSDPA and HSDPA - layer 2 and 3 aspects" | Rapporteur | 9.6 | |
| RP-010329 | Report from WG1 chairman to TSG-RAN | TSG-RAN WG1 Chairman | 8.1.1 | |
| RP-010330 | Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN | TSG-RAN WG1 Chairman | 8.1.1 | |
| RP-010331 | CRs (R'99 and Rel-4 Category A) to TS 25.211 | TSG-RAN WG1 | 8.1.3 | |
| RP-010332 | CRs (R'99 and Rel-4 Category A) to TS 25.212 | TSG-RAN WG1 | 8.1.3 | |
| RP-010333 | CRs (R'99 and Rel-4 Category A) to TS 25.213 | TSG-RAN WG1 | 8.1.3 | |
| RP-010334 | CRs (R'99 and Rel-4 Category A) to TS 25.214 | TSG-RAN WG1 | 8.1.3 | |
| RP-010335 | CRs (R'99 and Rel-4 Category A) to TS 25.215 | TSG-RAN WG1 | 8.1.3 | |
| RP-010336 | CRs (R'99 and Rel-4 Category A) to TS 25.221 | TSG-RAN WG1 | 8.1.3 | |
| RP-010337 | CRs (R'99 and Rel-4 Category A) to TS 25.223 | TSG-RAN WG1 | 8.1.3 | |
| RP-010338 | CRs (R'99 and Rel-4 Category A) to TS 25.224 | TSG-RAN WG1 | 8.1.3 | |
| RP-010339 | CRs (R'99 and Rel-4 Category A) to TS 25.225 | TSG-RAN WG1 | 8.1.3 | |
| RP-010340 | CRs (R'99 and Rel-4 Category A) to TR 25.944 | TSG-RAN WG1 | 8.1.3 | |
| RP-010341 | CRs (Rel-4) to TS 25.214 | TSG-RAN WG1 | 8.1.4 | |
| RP-010342 | CRs (Rel-4) to TS 25.221 | TSG-RAN WG1 | 8.1.4 | |
| RP-010343 | CRs (Rel-4) to TS 25.224 | TSG-RAN WG1 | 8.1.4 | |
| RP-010344 | TR 25.869 v1.0.0 "RAN WG1 report on Tx diversity solutions for multiple antennas" | TSG-RAN WG1 | 9.8.1 | RP-010471 |
| RP-010345 | TR 25.855 v1.0.0 "High Speed Downlink Packet Access; Overall UTRAN Description" | TSG-RAN WG2 | 9.6 | |
| RP-010346 | Status Report WG4 | TSG-RAN WG4 Chairman | 8.4.1 | |
| RP-010347 | CRs (R'99 and Rel-4 Category A) to TS 25.101 | TSG-RAN WG4 | 8.4.3 | |
| RP-010348 | CRs (R'99 and Rel-4 Category A) to TS 25.102 | TSG-RAN WG4 | 8.4.3 | |
| RP-010349 | CRs (R'99 and Rel-4 Category A) to TS 25.104 | TSG-RAN WG4 | 8.4.3 | |
| RP-010350 | CRs (R'99 and Rel-4 Category A) to TS 25.105 | TSG-RAN WG4 | 8.4.3 | |
| RP-010351 | CRs (R'99 and Rel-4 Category A) to TS 25.123 (1) | TSG-RAN WG4 | 8.4.3 | |
| RP-010352 | CRs (R'99 and Rel-4 Category A) to TS 25.123 (2) | TSG-RAN WG4 | 8.4.3 | |
| RP-010353 | CRs (R'99 and Rel-4 Category A) to TS 25.133 (1) | TSG-RAN WG4 | 8.4.3 | |
| RP-010354 | CRs (R'99 and Rel-4 Category A) to TS 25.133 (2) | TSG-RAN WG4 | 8.4.3 | |
| RP-010355 | CRs (R'99 and Rel-4 Category A) to TS 25.141 | TSG-RAN WG4 | 8.4.3 | |
| RP-010356 | CRs (R'99 and Rel-4 Category A) to TS 25.142 | TSG-RAN WG4 | 8.4.3 | |
| RP-010357 | CRs (R'99~~ and Rel-4 Category A~~) to TR 25.942 | TSG-RAN WG4 | 8.4.3 | |
| RP-010358 | CRs (Rel-4) to TS 25.101 | TSG-RAN WG4 | 8.4.4 | |
| RP-010359 | CRs (Rel-4) to TS 25.102 | TSG-RAN WG4 | 8.4.4 | |

| Doc.No. | Title | Source | Ag.It. | Comments |
|---|---|---|---|---|
| RP-010360 | CRs (Rel-4) to TS 25.104 | TSG-RAN WG4 | 8.4.4 | RP-010467 |
| RP-010361 | CRs (Rel-4) to TS 25.105 | TSG-RAN WG4 | 8.4.4 | |
| RP-010362 | CRs (Rel-4) to TS 25.113 | TSG-RAN WG4 | 8.4.4 | |
| RP-010363 | CRs (Rel-4) to TS 25.123 | TSG-RAN WG4 | 8.4.4 | |
| RP-010364 | CRs (Rel-4) to TS 25.133 | TSG-RAN WG4 | 8.4.4 | |
| RP-010365 | CRs (Rel-4) to TS 25.141 | TSG-RAN WG4 | 8.4.4 | withdrawn |
| RP-010366 | CRs (Rel-4) to TS 25.142 | TSG-RAN WG4 | 8.4.4 | |
| RP-010367 | CRs (Rel-4) to TS 25.143 | TSG-RAN WG4 | 8.4.4 | |
| RP-010368 | Report from WG3 chairman to TSG-RAN | TSG-RAN WG3 Chairman | 8.3.1 | |
| RP-010369 | List of agreed CRs in RAN WG3 #20 and #21 meetings | TSG-RAN WG3 | 8.3.1 | RP-010455 |
| RP-010370 | CRs (R'99 and Rel-4 Category A) to TS 25.401 | TSG-RAN WG3 | 8.3.3 | |
| RP-010371 | CRs (R'99 and Rel-4 Category A) to TS 25.402 | TSG-RAN WG3 | 8.3.3 | |
| RP-010372 | CRs (R'99 and Rel-4 Category A) to TS 25.410 | TSG-RAN WG3 | 8.3.3 | |
| RP-010373 | CRs (R'99 and Rel-4 Category A) to TS 25.411 | TSG-RAN WG3 | 8.3.3 | |
| RP-010374 | CRs (R'99 and Rel-4 Category A) to TS 25.413 (1) | TSG-RAN WG3 | 8.3.3 | RP-010454 |
| RP-010375 | CRs (R'99 and Rel-4 Category A) to TS 25.413 (2) | TSG-RAN WG3 | 8.3.3 | |
| RP-010376 | CRs (R'99 and Rel-4 Category A) to TS 25.415 | TSG-RAN WG3 | 8.3.3 | |
| RP-010377 | CRs (R'99 and Rel-4 Category A) to TS 25.419 | TSG-RAN WG3 | 8.3.3 | |
| RP-010378 | CRs (R'99 and Rel-4 Category A) to TS 25.423 (1) | TSG-RAN WG3 | 8.3.3 | |
| RP-010379 | CRs (R'99 and Rel-4 Category A) to TS 25.423 (2) | TSG-RAN WG3 | 8.3.3 | |
| RP-010380 | CRs (R'99 and Rel-4 Category A) to TS 25.423 (3) | TSG-RAN WG3 | 8.3.3 | |
| RP-010381 | CRs (R'99 and Rel-4 Category A) to TS 25.427 | TSG-RAN WG3 | 8.3.3 | |
| RP-010382 | CRs (R'99 and Rel-4 Category A) to TS 25.430 | TSG-RAN WG3 | 8.3.3 | |
| RP-010383 | CRs (R'99 and Rel-4 Category A) to TS 25.433 (1) | TSG-RAN WG3 | 8.3.3 | |
| RP-010384 | CRs (R'99 and Rel-4 Category A) to TS 25.433 (2) | TSG-RAN WG3 | 8.3.3 | |
| RP-010385 | CRs (R'99 and Rel-4 Category A) to TS 25.433 (3) | TSG-RAN WG3 | 8.3.3 | |
| RP-010386 | CRs (R'99 and Rel-4 Category A) to TS 25.435 | TSG-RAN WG3 | 8.3.3 | |
| RP-010387 | CRs (R'99 and Rel-4 Category A) to TR 25.931 | TSG-RAN WG3 | 8.3.3 | |
| RP-010388 | TR 30.531 v0.9.0 | MCC | 8.3.3 | |
| RP-010389 | CRs (Rel-4) to TS 25.401 | TSG-RAN WG3 | 8.3.4 | |
| RP-010390 | CRs (Rel-4) to TS 25.402 | TSG-RAN WG3 | 8.3.4 | |
| RP-010391 | CRs (Rel-4) to TS 25.410 | TSG-RAN WG3 | 8.3.4 | |
| RP-010392 | CRs (Rel-4) to TS 25.413 | TSG-RAN WG3 | 8.3.4 | |
| RP-010393 | CRs (Rel-4) to TS 25.415 | TSG-RAN WG3 | 8.3.4 | |
| RP-010394 | CRs (Rel-4) to TS 25.423 | TSG-RAN WG3 | 8.3.4 | |
| RP-010395 | CRs (Rel-4) to TS 25.427 | TSG-RAN WG3 | 8.3.4 | |
| RP-010396 | CRs (Rel-4) to TS 25.433 | TSG-RAN WG3 | 8.3.4 | |
| RP-010397 | CRs (Rel-4) to TS 25.434 | TSG-RAN WG3 | 8.3.4 | |
| RP-010398 | CRs (Rel-4) to TS 25.435 | TSG-RAN WG3 | 8.3.4 | |
| RP-010399 | CRs (Rel-4) to TR 25.850 | TSG-RAN WG3 | 8.3.4 | |
| RP-010400 | TS 25.450 v2.0.0 | TSG-RAN WG3 | 9.4.3 | |
| RP-010401 | TS 25.451 v2.0.0 | TSG-RAN WG3 | 9.4.3 | |
| RP-010402 | TS 25.453 v2.0.0 | TSG-RAN WG3 | 9.4.3 | |
| RP-010403 | CRs (Rel-5) for WI "Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning" | TSG-RAN WG3 | 9.4.3 | |
| RP-010404 | Status Report WI "HSDPA Iub/Iur protocol aspects" | TSG-RAN WG3 | 9.6.3 | |
| RP-010405 | Status Report WI "IP Transport" | TSG-RAN WG3 | 9.3 | |
| RP-010406 | Status Report WI "NAS Node Selector Function (RAN work for Intra Domain Connection of RAN Nodes to Multiple CN Nodes)" | TSG-RAN WG3 | 9.5 | |
| RP-010407 | Status Report WI "Radio Link Timing Adjustment" | TSG-RAN WG3 | 9.2.3 | |
| RP-010408 | Status Report SI "Improvement RRM across RNS and RNS/BSS" | TSG-RAN WG3 | 9.8.6 | |
| RP-010409 | Status Report WI "Separation resource reservation and activation" | TSG-RAN WG3 | 9.2.4 | |

| Doc.No. | Title | Source | Ag.It. | Comments |
|---|---|---|---|---|
| RP-010410 | Status Report WI "Traffic Termination Point Swapping" | TSG-RAN WG3 | 9.2.5 | |
| RP-010411 | Status of UE positioning | TSG-RAN WG2 | 8.2.1 | |
| RP-010412 | (GP-011437, to TSG-RAN) LS on Terminology clarifications | TSG-GERAN | 7.1 | |
| RP-010413 | Proposed WI "Wideband Distribution Systems" | Tekmar Sistemi | 9.9 | |
| RP-010414 | Revised WI Sheet for WI "Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning" | Qualcomm | 9.4.3 | |
| RP-010415 | Backwards compatibility of Release 99 versions | Motorola | 8 | |
| RP-010416 | IPv4/6 in the transport layer | Motorola | 8.3.2 | |
| RP-010417 | Revised WI sheet for WI "Gated DPCCH Transmission" | Samsung | 9.1.6 | withdrawn |
| RP-010418 | Status Report WI "Gated DPCCH Transmission" | Rapporteur | 9.1.6 | |
| RP-010419 | Status Report WI "Enhancement on the DSCH hard split mode" | Rapporteur | 9.1.11 | |
| RP-010420 | TR 25.870 v0.1.0 "Enhancement on the DSCH hard split mode" | Rapporteur | 9.1.11 | RP-010468 |
| RP-010421 | Status Report | ITU-R Ad Hoc contact person | 8.5 | |
| RP-010422 | Terminology used within 3GPP | ITU-R Ad Hoc | 8.5 | |
| RP-010423 | Update submission for CDMA DS and CDMA TDD | ITU-R Ad Hoc | 8.5 | |
| RP-010424 | Reminder for the OPs on the compliance with ITU-R procedures & on the transposition of 3GPP Specs | ITU-R Ad Hoc | 8.5 | |
| RP-010425 | TR 25.933 v1.1.0 "IP transport in UTRAN" | TSG-RAN WG3 | 9.3.1 | |
| RP-010426 | TR 25.839 v0.2.0 "USTS" | TSG-RAN WG3 | 9.8.2 | |
| RP-010427 | Status Report SI "USTS" | Rapporteur | 9.8.2 | |
| RP-010428 | TR 25.854 v1.0.0 "USTS" | Rapporteur | 9.8.2 | |
| RP-010429 | Proposed WI "USTS" | SK Telecom | 9.8.2 | |
| RP-010430 | Status Report SI "Mitigating the Effect of CPICH Interference at the UE" | Rapporteur | 9.8.7 | |
| RP-010431 | Revised SI Sheet for SI "Mitigating the Effect of CPICH Interference at the UE" | Rapporteur | 9.8.7 | |
| RP-010432 | Status Report SI "Feasibility Study of UE antennas" | Rapporteur | 9.8.4 | |
| RP-010433 | Revised WI sheet for WI "Enhancement on the DSCH hard split mode" | Rapporteur | 9.1.11 | |
| RP-010434 | Proposed SI sheet for SI "Re-introduction of SIR measurement" | TIM/TILAB, Blu, Ericsson, Mobilkom Austria, One2One, Telefonica | 9.8.8 | |
| RP-010435 | Approved CR 073r2 (R'99) and CR 074r1 (Rel-4 Category A) to 25.304 | Motorola, Telia | 8.2.2 | |
| RP-010436 | (R3-011868, to TSG-RAN) Response to LS (S2-011572) on Requirements on the Iu Interface | TSG-RAN WG3 | 7.3 | |
| RP-010437 | TR 25.943 v2.1.0 "Deployment aspects" | Rapporteur | 8.4.4 | |
| RP-010438 | Postponed CR 001 (Rel-4) to 25.307 | MCC | 8.2.2 | |
| RP-010439 | Elimination of TFCs based on power requirements | Qualcomm | 8.4.2 | |
| RP-010440 | Replaced CR 124 (R'99) and CR 125 (Rel-4 Category A) to 25.133 | Qualcomm | 8.4.2 | RP-010477 |
| RP-010441 | Replaced CR 180r3 (R'99) and CR 181r3 (Rel-4 Category A) to 25.214 | Nortel Networks, Ericsson, Panasonic | 8.1.2 | RP-010482 |
| RP-010442 | CR to 21.101: "Correction to list of specs" | MCC | 12 | |
| RP-010443 | CR to 21.102: "Correction to list of specs" | MCC | 12 | |
| RP-010444 | 1st draft 21.103: "3rd Generation mobile system Release 5 Specifications" | MCC | 12 | |
| RP-010445 | CR to 01.01: "GSM Release 1999 specifications. | MCC | 12 | |
| RP-010446 | CR to 41.102: "GSM Release 4 Specifications" | MCC | 12 | |
| RP-010447 | 1st draft 41.103: "GSM Release 5 Specifications" | MCC | 12 | |
| RP-010448 | Specs status list prior to TSGs#12 | MCC | 12 | |
| RP-010449 | Spec numbers and titles | MCC | 12 | |
| RP-010450 | Proposed WI "Base Station Classification for 1.28 Mcps TDD option" | Siemens | 9.9 | |
| RP-010451 | Work plan | MCC | 9 | |
| RP-010452 | MCC review of the Work Plan | MCC | 9 | |

| Doc.No. | Title | Source | Ag.It. | Comments |
|---|---|---|---|---|
| RP-010453 | LS (R4-010723, copy TSG-RAN) on Power Output Classes for Frequency Bands II and III | TSG-RAN WG4 | 7.3 | |
| RP-010454 | CRs (R'99 and Rel-4 Category A) to TS 25.413 (1) | TSG-RAN WG3 | 8.3.3 | |
| RP-010455 | List of agreed CRs in RAN WG3 #20 and #21 meetings | TSG-RAN WG3 | 8.3.1 | |
| RP-010456 | Approved CR 089r2 (R'99) and CR 090r2 (Rel-4 Category A) to 25.215 | TSG-RAN | 8.1.3 | |
| RP-010457 | TR 25.952 v2.0.0 "TDD Base Station Classification" | TSG-RAN WG4 | 9.1.3 | |
| RP-010458 | Cover sheet for TR 25.952 | TSG-RAN WG4 | 9.1.3 | |
| RP-010459 | Status Report WI "TDD Base Station Classification" | Rapporteur | 9.1.3 | |
| RP-010460 | Proposed WI "Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN" | Nokia, Hutchison 3G, Omnitel/Vodafone | 9.9 | |
| RP-010461 | Status Report WI "HSDPA - Physical layer aspects" | Rapporteur | 9.6.1 | |
| RP-010462 | Status Report WI "FDD Base Station Classification" | Rapporteur | 9.1.4 | |
| RP-010463 | Proposed WI "SRNS relocation enhancement" | Nokia | 9.9 | |
| RP-010464 | Status Report WIs "UMTS 1800" and "UMTS 1900" | Rapporteur | 9.1.8 | |
| RP-010465 | Revised WI sheet for WI "Traffic Termination Point Swapping" | Rapporteur | 9.2.5 | |
| RP-010466 | Replaced CR 840r3 (R'99) and CR 841r1 (Rel-4 Category A) to 25.331 | Qualcomm | 8.2.3 | RP-010479 |
| RP-010467 | CRs (Rel-4) to TS 25.104 | TSG-RAN WG4 | 8.4.4 | |
| RP-010468 | TR 25.870 v0.1.0 "Enhancement on the DSCH hard split mode" | Rapporteur | 9.1.11 | |
| RP-010469 | Revised WI sheet for WI "Enhancement on the DSCH hard split mode" | Rapporteur | 9.1.11 | |
| RP-010470 | Revised WI sheet for WI "Terminal power saving features" | Rapporteur | 9.1.7 | |
| RP-010471 | TR 25.869 v1.0.0 "RAN WG1 report on Tx diversity solutions for multiple antennas" | TSG-RAN WG1 | 9.8.1 | |
| RP-010472 | Proposed WI "Direct transport bearers between SRNC and Node-B" | Ericsson | 9.9 | RP-010492 |
| RP-010473 | Proposed WI "Iur Common Transport Channel Efficiency Optimisation" | Ericsson | 9.9 | |
| RP-010474 | Proposed WI "Iur Neighbouring cell reporting Efficiency Optimisation" | Ericsson | 9.9 | |
| RP-010475 | Proposed WI "Vendor specific extensions in NBAP, RNSAP, RANAP and SABP messages" | Ericsson | 9.9 | |
| RP-010476 | Proposed UMTS1800/1900 WI Work Schedule | AT&T Wireless Services, Cingular Wireless LLC | 9.1.9 | |
| RP-010477 | Replaced CR 124r1 (R'99) and CR 125r1 (Rel-4 Category A) to 25.133 | Qualcomm | 8.4.3 | RP-010495 |
| RP-010478 | Status Report SI "Radio link performance enhancements" | Rapporteur | 9.8.1 | |
| RP-010479 | Withdrawn CR 840r3 (R'99) and CR 841r1 (Rel-4 Category A) to 25.331 | Qualcomm | 8.2.3 | |
| RP-010480 | Revised SI Sheet for SI "Improvement of Radio Resource Management across RNS and RNS/BSS" | Rapporteur | 9.8.6 | |
| RP-010481 | Approved CR 009r1 (R'99) and CR 010r1 (Rel-4 Category A) to 34.109 | Ericsson | 8.2.3 | |
| RP-010482 | Approved CR 180r4 (R'99) and CR 181r4 (Rel-4 Category A) to 25.214 | Nortel Networks, Ericsson, Panasonic | 8.1.2 | |
| RP-010483 | Proposed WI "UE Specific beamforming with dedicated pilots" | Nokia | 9.9 | |
| RP-010484 | Isolated Impact CRs | Ad Hoc group | 8 | RP-010494 |
| RP-010485 | Revised WI sheet for WI "Terminal power saving features" | Samsung Electronics, Nortel Networks, Nokia | 9.1.7 | |
| RP-010486 | 3GPP TSG RAN Report of the PCG and OP (10-11 april 2001) | Chairman | 5.2 | |
| RP-010487 | Revised WI sheet for WI "Separation of resource reservation and radio link activation" | Nortel Networks, Ericsson | 9.2.4 | |
| RP-010488 | Proposed SI "Wideband Distribution Systems" | Tekmar Sistemi | 9.9 | |
| RP-010489 | Update submission for CDMA DS and CDMA TDD | ITU-R Ad Hoc drafting group | 8.5 | |
| RP-010490 | Proposed SI "SRNS relocation enhancement" | Nokia, Nortel Networks | 9.9 | |
| RP-010491 | Report on UMTS Forum Workshop | Chairman | 6.1 | |

| Doc.No. | Title | Source | Ag.It. | Comments |
|---|---|---|---|---|
| RP-010492 | Proposed SI "Direct transport bearers between SRNC and Node-B" | Ericsson | 9.9 | |
| RP-010493 | LS (NP-010362, to TSG-RAN) on CR numbering | TSG-CN | 7.1 | |
| RP-010494 | Isolated Impact CRs | Ad Hoc group | 8 | |
| RP-010495 | Approved CR 124r1 (R'99) and CR 125r1 (Rel-4 Category A) to 25.133 | Qualcomm | 8.4.3 | |

# Annex C: Status table of CRs

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.101 | 99 | | R99 | F | RP-12 | RP-010347 | R4-010526 | approved | Correction for SSDT test parameters | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.101 | 100 | | Rel-4 | A | RP-12 | RP-010347 | R4-010527 | approved | Correction for SSDT test parameters | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.101 | 101 | | R99 | F | RP-12 | RP-010347 | R4-010616 | rejected | CR for UMTS1900 operation in Rel 99 | 3.6.0 | | R4 | TEI |
| 25.101 | 102 | | Rel-4 | A | RP-12 | RP-010347 | R4-010617 | rejected | CR for UMTS1900 operation in Rel 4 | 4.0.0 | | R4 | TEI |
| 25.101 | 103 | | R99 | F | RP-12 | RP-010347 | R4-010671 | approved | UL DPCCH slot format for performance tests | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.101 | 104 | | Rel-4 | A | RP-12 | RP-010347 | R4-010740 | approved | UL DPCCH slot format for performance tests | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.101 | 105 | | R99 | F | RP-12 | RP-010347 | R4-010704 | rejected | Clarification of power definition for UE maximum output power | 3.6.0 | | R4 | TEI |
| 25.101 | 106 | | Rel-4 | A | RP-12 | RP-010347 | R4-010749 | rejected | Clarification of power definition for UE maximum output power | 4.0.0 | | R4 | TEI |
| 25.101 | 107 | | R99 | F | RP-12 | RP-010347 | R4-010728 | approved | Terminology for power definition | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.101 | 108 | | Rel-4 | A | RP-12 | RP-010347 | R4-010750 | approved | Terminology for power definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.101 | 109 | | R99 | F | RP-12 | RP-010347 | R4-010790 | approved | out of synchronization handling | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.101 | 110 | | Rel-4 | A | RP-12 | RP-010347 | R4-010789 | approved | out of synchronization handling | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.101 | 111 | | R99 | F | RP-12 | RP-010347 | R4-010747 | approved | Clarification of limits for inner loop power control | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.101 | 112 | | Rel-4 | A | RP-12 | RP-010347 | R4-010748 | approved | Clarification of limits for inner loop power control | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.101 | 113 | | R99 | F | RP-12 | RP-010347 | R4-010751 | approved | UE EVM definition | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.101 | 114 | | Rel-4 | A | RP-12 | RP-010347 | R4-010752 | approved | UE EVM definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.101 | 115 | | R99 | F | RP-12 | RP-010347 | R4-010715 | approved | CR on the Modification to OCNS code channels to allow for 384 kbps allocation | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.101 | 116 | | Rel-4 | A | RP-12 | RP-010347 | R4-010781 | approved | CR on the Modification to OCNS code channels to allow for 384 kbps allocation | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.101 | 117 | | Rel-4 | F | RP-12 | RP-010358 | R4-010593 | approved | Correction of AICH performance | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.102 | 48 | | R99 | F | RP-12 | RP-010348 | R4-010520 | approved | Correction of signal descriptions in Receiver Characteristics section. | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.102 | 49 | | Rel-4 | A | RP-12 | RP-010348 | R4-010521 | approved | Correction of signal descriptions in Receiver Characteristics section. | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.102 | 50 | | R99 | F | RP-12 | RP-010348 | R4-010524 | approved | UE EVM definition | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.102 | 51 | | Rel-4 | A | RP-12 | RP-010348 | R4-010682 | approved | UE EVM definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.102 | 52 | | R99 | F | RP-12 | RP-010348 | R4-010545 | approved | Clarification of UARFCN channel number | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.102 | 53 | | Rel-4 | A | RP-12 | RP-010348 | R4-010800 | approved | Clarification of UARFCN channel number | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.102 | 54 | | R99 | F | RP-12 | RP-010348 | R4-010567 | approved | CR for UE Performance Requirements | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.102 | 55 | | Rel-4 | A | RP-12 | RP-010348 | R4-010738 | approved | CR for UE Performance Requirements | 4.0.0 | 4.1.0 | R4 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.102 | 56 | | R99 | F | RP-12 | RP-010348 | R4-010676 | approved | Performance Test for Uplink Power Control | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.102 | 57 | | Rel-4 | A | RP-12 | RP-010348 | R4-010755 | approved | Performance Test for Uplink Power Control | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.102 | 58 | | R99 | F | RP-12 | RP-010348 | R4-010677 | approved | Corrections and note status changes from informative to normative | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.102 | 59 | | Rel-4 | A | RP-12 | RP-010348 | R4-010678 | approved | Corrections and note status changes from informative to normative | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.102 | 60 | | Rel-4 | F | RP-12 | RP-010359 | R4-010509 | approved | 2MB/Sec downlink reference channel for 1.28 Mcps TDD | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.102 | 61 | | Rel-4 | F | RP-12 | RP-010359 | R4-010548 | approved | Correction in BCH measurement channel description (1.28 Mcps TDD option) | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.102 | 62 | | Rel-4 | F | RP-12 | RP-010359 | R4-010549 | approved | Correction of UE radio capabilities | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.102 | 63 | | Rel-4 | F | RP-12 | RP-010359 | R4-010511 | approved | Out-of-sync handling during DTX for 1.28Mcps TDD Option | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.102 | 64 | | R99 | F | RP-12 | RP-010348 | R4-010476 | approved | BCH performance requirement | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.102 | 65 | | Rel-4 | A | RP-12 | RP-010348 | R4-010791 | approved | BCH performance requirement | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.102 | 66 | | Rel-4 | F | RP-12 | RP-010359 | R4-010801 | approved | Clarification of UARFCN channel number for 1.28 Mcps TDD | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.104 | 64 | | R99 | F | RP-12 | RP-010349 | R4-010577 | approved | Receiver blocking characteristics | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.104 | 65 | | Rel-4 | A | RP-12 | RP-010349 | R4-010673 | approved | Receiver Blocking characteristics | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.104 | 66 | | R99 | F | RP-12 | RP-010349 | R4-010579 | approved | Receiver spurious emission for co-located base stations | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.104 | 67 | | Rel-4 | A | RP-12 | RP-010349 | R4-010674 | approved | Receiver spurious emission for co-located base stations | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.104 | 68 | | R99 | F | RP-12 | RP-010349 | R4-010679 | approved | Definition of Eb/No used for uplink receiver performance requirements in TS 25.104 | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.104 | 69 | | Rel-4 | A | RP-12 | RP-010349 | R4-010736 | approved | Definition of Eb/No used for uplink receiver performance requirements in TS 25.104 | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.104 | 70 | | R99 | F | RP-12 | RP-010349 | R4-010759 | approved | ACLR definition | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.104 | 71 | | Rel-4 | A | RP-12 | RP-010349 | R4-010765 | approved | ACLR definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.104 | 72 | | Rel-4 | F | RP-12 | RP-010467 | R4-010557 | approved | Requirements for demodulation of RACH message | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.104 | 72 | | Rel-4 | F | RP-12 | RP-010360 | R4-010557 | revised | Requirements for demodulation of RACH message | 4.0.0 | | R4 | TEI4 |
| 25.104 | 73 | | Rel-4 | F | RP-12 | RP-010360 | R4-010722 | revised | RACH preamble requirements | 4.0.0 | | R4 | TEI4 |
| 25.104 | 73 | | R99 | F | RP-12 | RP-010349 | R4-010809 | rejected | CR for UMTS1900 operation in Rel 99 | 3.6.0 | | R4 | TEI |
| 25.104 | 74 | | Rel-4 | A | RP-12 | RP-010349 | R4-010810 | rejected | CR for UMTS1900 operation in Rel 4 | 4.0.0 | | R4 | TEI |
| 25.104 | 75 | | Rel-4 | F | RP-12 | RP-010467 | R4-010722 | approved | RACH preamble requirements | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.105 | 53 | | Rel-4 | B | RP-12 | RP-010361 | R4-010240 | approved | Differential accuracy of P-CCPCH power | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.105 | 54 | | R99 | F | RP-12 | RP-010350 | R4-010504 | approved | inclusion of environmental requirements | 3.6.0 | 3.7.0 | R4 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.105 | 55 | | Rel-4 | A | RP-12 | RP-010350 | R4-010506 | approved | inclusion of environmental requirements | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.105 | 56 | | R99 | F | RP-12 | RP-010350 | R4-010516 | approved | Application of blocking requirement | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.105 | 57 | | Rel-4 | A | RP-12 | RP-010350 | R4-010798 | approved | Application of blocking requirement | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.105 | 58 | | R99 | F | RP-12 | RP-010350 | R4-010570 | approved | CR for BS Performance Requirements | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.105 | 59 | | Rel-4 | A | RP-12 | RP-010350 | R4-010739 | approved | CR for BS Performance Requirements | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.105 | 60 | | Rel-4 | F | RP-12 | RP-010361 | R4-010551 | approved | Clarification of transmit intermodulation requirements | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.105 | 61 | | Rel-4 | F | RP-12 | RP-010361 | R4-010683 | approved | BS EVM definition correction | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.105 | 62 | | R99 | F | RP-12 | RP-010350 | R4-010546 | approved | Correction to upper frequency of transmitter Spurious emission limits | 3.6.0 | 3.7.0 | R4 | TEI |
| 25.105 | 63 | | Rel-4 | A | RP-12 | RP-010350 | R4-010793 | approved | Correction to upper frequency of transmitter spurious emission limits | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.105 | 64 | | Rel-4 | F | RP-12 | RP-010361 | R4-010799 | approved | Application of blocking requirement for 1.28 Mcps TDD | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.105 | 65 | | Rel-4 | F | RP-12 | RP-010361 | R4-010794 | approved | Correction to upper frequency of transmitter spurious emission limits for 1.28 Mcps TDD | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.113 | 10 | | Rel-4 | F | RP-12 | RP-010362 | R4-010556 | approved | Correction to the description of the radiated spurious emission test method (1.28 Mcps TDD optioon) | 4.0.0 | 4.1.0 | R4 | LCRTTD-RF |
| 25.123 | 46 | | R99 | F | RP-12 | RP-010351 | R4-010480 | approved | UTRAN Measurements Test Cases | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 47 | | Rel-4 | A | RP-12 | RP-010351 | R4-010552 | approved | UTRAN Measurement Test Cases | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 48 | | R99 | F | RP-12 | RP-010351 | R4-010481 | approved | Cell synchronisation definition | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 49 | | Rel-4 | A | RP-12 | RP-010351 | R4-010530 | approved | Cell synchronisation definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 50 | | R99 | F | RP-12 | RP-010351 | R4-010482 | approved | UE measurement capability | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 51 | | Rel-4 | A | RP-12 | RP-010351 | R4-010553 | approved | UE measurement capability | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 52 | | R99 | F | RP-12 | RP-010351 | R4-010483 | approved | Measurements performance requirements | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 53 | | Rel-4 | A | RP-12 | RP-010351 | R4-010529 | approved | Measurement performance requirements | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 54 | | R99 | F | RP-12 | RP-010351 | R4-010484 | approved | FDD Measurements in Cell DCH State | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 55 | | Rel-4 | A | RP-12 | RP-010351 | R4-010554 | approved | FDD measurements in Cell DCH State | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 56 | | R99 | F | RP-12 | RP-010351 | R4-010538 | approved | Test tolerances | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 57 | | Rel-4 | A | RP-12 | RP-010351 | R4-010539 | approved | Test tolerances | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 58 | | R99 | F | RP-12 | RP-010351 | R4-010571 | approved | UE P-CCPCH RSCP relative accuracy | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 59 | | Rel-4 | A | RP-12 | RP-010351 | R4-010701 | approved | UE P-CCPCH RSCP relative accuracy | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 60 | | R99 | F | RP-12 | RP-010351 | R4-010572 | approved | UE P-CCPCH RSCP inter-frequency accuracy | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 61 | | Rel-4 | A | RP-12 | RP-010351 | R4-010702 | approved | UE P-CCPCH RSCP inter-frequency accuracy | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 62 | | R99 | F | RP-12 | RP-010351 | R4-010690 | approved | UE Tx Timing | 3.5.0 | 3.6.0 | R4 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.123 | 63 | | Rel-4 | A | RP-12 | RP-010351 | R4-010741 | approved | UE Tx Timing | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 64 | | R99 | F | RP-12 | RP-010351 | R4-010693 | approved | Correction of re-selection requirements in Cell-FACH state. | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 65 | | Rel-4 | A | RP-12 | RP-010351 | R4-010804 | approved | Correction of re-selection requirements in cell_FACH state | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 66 | | R99 | F | RP-12 | RP-010352 | R4-010694 | approved | General section 5 corrections | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 67 | | Rel-4 | A | RP-12 | RP-010352 | R4-010806 | approved | General section 5 corrections | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 68 | | R99 | F | RP-12 | RP-010352 | R4-010695 | approved | Correction to chapter 4.2 Cell re-selection | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 69 | | Rel-4 | A | RP-12 | RP-010352 | R4-010680 | approved | Correction to chapter 4.2 Cell re-selection | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 70 | | R99 | F | RP-12 | RP-010352 | R4-010708 | approved | TDD Measurements in Cell DCH State | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 71 | | Rel-4 | A | RP-12 | RP-010352 | R4-010730 | approved | TDD measurements in Cell DCH State | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 72 | | R99 | F | RP-12 | RP-010352 | R4-010709 | approved | GSM Measurements in Cell DCH State | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 73 | | Rel-4 | A | RP-12 | RP-010352 | R4-010731 | approved | GSM measurement in CELL_DCH State | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 74 | | Rel-4 | F | RP-12 | RP-010363 | R4-010477 | approved | UTRAN SFN-SFN observed time difference | 4.0.0 | 4.1.0 | R4 | LCS1-UEpos |
| 25.123 | 75 | | Rel-4 | F | RP-12 | RP-010363 | R4-010489 | approved | UE SFN-SFN mapping | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.123 | 76 | | Rel-4 | F | RP-12 | RP-010363 | R4-010540 | approved | Clarification of NodeBsynch | 4.0.0 | 4.1.0 | R4 | RANimp-NBsync |
| 25.123 | 77 | | Rel-4 | F | RP-12 | RP-010363 | R4-010479 | approved | UTRAN GPS timing of cell frames for UP mapping | 4.0.0 | 4.1.0 | R4 | LCS1-UEpos |
| 25.123 | 78 | | Rel-4 | F | RP-12 | RP-010363 | R4-010478 | approved | LCR UE/UTRAN GPS timing of cell frames for UP | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.123 | 79 | | R99 | F | RP-12 | RP-010352 | R4-010487 | approved | Measurements in Cell FACH State | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 80 | | Rel-4 | A | RP-12 | RP-010352 | R4-010792 | approved | Measurements in cell_FACH state | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 81 | | R99 | F | RP-12 | RP-010352 | R4-010475 | approved | TDD Measurement Test Cases | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 82 | | Rel-4 | A | RP-12 | RP-010352 | R4-010795 | approved | TDD measurement test cases | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 83 | | R99 | F | RP-12 | RP-010352 | R4-010488 | approved | FDD Measurement Test Cases | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.123 | 84 | | Rel-4 | A | RP-12 | RP-010352 | R4-010796 | approved | FDD measurement test cases | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.123 | 85 | | Rel-4 | F | RP-12 | RP-010363 | R4-010807 | approved | General section 5 corrections for 1.28 Mcps TDD | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.123 | 86 | | Rel-4 | F | RP-12 | RP-010363 | R4-010805 | approved | Correction of re-selection requirements in cell_FACH state for 1.28 Mcps | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.123 | 87 | | Rel-4 | F | RP-12 | RP-010363 | R4-010797 | approved | 1.28 TDD test cases for TDD and FDD measurements | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.133 | 100 | | Rel-4 | A | RP-12 | RP-010353 | R4-010756 | approved | Cell-reselection test cases in CELL_PCH and URA_PCH | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 101 | | R99 | F | RP-12 | RP-010353 | R4-010707 | approved | Idle mode cell-reselection test cases | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 102 | | Rel-4 | A | RP-12 | RP-010353 | R4-010757 | approved | Idle mode cell-reselection test cases | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 103 | | R99 | F | RP-12 | RP-010353 | R4-010710 | approved | Measurements in CELL_FACH State | 3.5.0 | 3.6.0 | R4 | TEI |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.133 | 104 | | Rel-4 | A | RP-12 | RP-010353 | R4-010772 | approved | Measurements in CELL_FACH State | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 105 | | R99 | F | RP-12 | RP-010353 | R4-010711 | approved | Cell-reselection test cases in CELL_FACH | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 106 | | Rel-4 | A | RP-12 | RP-010353 | R4-010754 | approved | Cell-reselection test cases in CELL_FACH | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 107 | | R99 | F | RP-12 | RP-010353 | R4-010713 | approved | GSM measurements in CELL_DCH state | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 108 | | Rel-4 | A | RP-12 | RP-010353 | R4-010770 | approved | GSM measurements in CELL_DCH state | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 109 | | R99 | F | RP-12 | RP-010354 | R4-010721 | revised | TFC selection at maximum output power | 3.5.0 | | R4 | TEI |
| 25.133 | 110 | | Rel-4 | A | RP-12 | RP-010354 | R4-010771 | revised | TFC selection at maximum output power | 4.0.0 | | R4 | TEI |
| 25.133 | 111 | | R99 | F | RP-12 | RP-010354 | R4-010735 | approved | Corrections for multiple neighbour test cases | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 112 | | Rel-4 | A | RP-12 | RP-010354 | R4-010769 | approved | Corrections for multiple neighbour test cases | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 113 | | R99 | F | RP-12 | RP-010354 | R4-010753 | approved | Corrections for Section 5 | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 114 | | Rel-4 | A | RP-12 | RP-010354 | R4-010767 | approved | Corrections for Section 5 | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 115 | | R99 | F | RP-12 | RP-010354 | R4-010760 | approved | RRC Connection re-establishment | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 116 | | Rel-4 | A | RP-12 | RP-010354 | R4-010761 | approved | RRC Connection re-establishment | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 117 | | R99 | F | RP-12 | RP-010354 | R4-010777 | approved | Corrections for Section 9 | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 118 | | Rel-4 | A | RP-12 | RP-010354 | R4-010778 | approved | Corrections for Section 9 | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 119 | | R99 | F | RP-12 | RP-010354 | R4-010638 | approved | Correction for a CPICH_Ec/Io definition | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 120 | | Rel-4 | A | RP-12 | RP-010354 | R4-010774 | approved | Correction for a CPICH_Ec/Io definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 121 | | R99 | F | RP-12 | RP-010354 | R4-010745 | approved | Detection and measurements of new cells not belonging to monitored set | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 122 | | Rel-4 | A | RP-12 | RP-010354 | R4-010787 | approved | Detection and measurements of new cells not belonging to monitored set | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 123 | | Rel-4 | F | RP-12 | RP-010364 | R4-010788 | approved | Detection and measurements of new cells not belonging to monitored set | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.133 | 124 | | R99 | F | RP-12 | RP-010440 | | revised | TFC selection at maximum output power | 3.5.0 | | R4 | TEI |
| 25.133 | 124 | 1 | R99 | F | RP-12 | RP-010447 | | revised | TFC selection at maximum output power | 3.5.0 | | R4 | TEI |
| 25.133 | 124 | 2 | R99 | F | RP-12 | RP-010495 | | approved | TFC selection at maximum output power | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 125 | | Rel-4 | A | RP-12 | RP-010440 | | revised | TFC selection at maximum output power | 4.0.0 | | R4 | TEI |
| 25.133 | 125 | 1 | Rel-4 | A | RP-12 | RP-010447 | | revised | TFC selection at maximum output power | 4.0.0 | | R4 | TEI |
| 25.133 | 125 | 2 | Rel-4 | A | RP-12 | RP-010495 | | approved | TFC selection at maximum output power | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 89 | | R99 | F | RP-12 | RP-010353 | R4-010541 | approved | Correction of FDD/TDD handover requirement. | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 90 | | Rel-4 | A | RP-12 | RP-010353 | R4-010542 | approved | Correction of FDD/TDD handover requirement. | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 91 | | R99 | F | RP-12 | RP-010353 | R4-010543 | approved | Extraction of TGSN_proposed | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 92 | | Rel-4 | A | RP-12 | RP-010353 | R4-010544 | approved | Extraction of TGSN_proposed | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 93 | | R99 | F | RP-12 | RP-010353 | R4-010590 | approved | Corrections to cell re-selection requirements | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 94 | | Rel-4 | A | RP-12 | RP-010353 | R4-010698 | approved | Corrections to cell re-selection requirements | 4.0.0 | 4.1.0 | R4 | TEI |

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| 25.133 | 95 | | R99 | F | RP-12 | RP-010353 | R4-010636 | approved | UTRAN to GSM cell reselection delay in CELL_FACH state | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 96 | | Rel-4 | A | RP-12 | RP-010353 | R4-010779 | approved | UTRAN to GSM cell reselection delay in CELL_FACH state | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 97 | | R99 | F | RP-12 | RP-010353 | R4-010697 | approved | Corrections for idle mode section | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.133 | 98 | | Rel-4 | A | RP-12 | RP-010353 | R4-010768 | approved | Corrections for idle mode section | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.133 | 99 | | R99 | F | RP-12 | RP-010353 | R4-010706 | approved | Cell-reselection test cases in CELL_PCH and URA_PCH | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.141 | 84 | | R99 | F | RP-12 | RP-010355 | R4-010607 | approved | CR TS25.141 Measurement uncertainty | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.141 | 85 | | Rel-4 | A | RP-12 | RP-010355 | R4-010783 | approved | CR TS25.141 Measurement uncertainty | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.141 | 86 | | R99 | F | RP-12 | RP-010355 | R4-010813 | approved | ACLR definition | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.141 | 87 | | Rel-4 | A | RP-12 | RP-010355 | R4-010814 | approved | ACLR definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.141 | 88 | | R99 | F | RP-12 | RP-010355 | R4-010762 | approved | Clarification of AWGN definition | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.141 | 89 | | Rel-4 | A | RP-12 | RP-010355 | R4-010763 | approved | Clarification of AWGN definition | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.141 | 90 | | R99 | F | RP-12 | RP-010355 | R4-010784 | approved | Corrections to 25.141 specification | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.141 | 91 | | Rel-4 | A | RP-12 | RP-010355 | R4-010785 | approved | Corrections to 25.141 specification | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.141 | 93 | | R99 | F | RP-12 | RP-010355 | R4-010808 | approved | Receiver spurious emission for co-located base stations | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.141 | 94 | | Rel-4 | A | RP-12 | RP-010355 | R4-010811 | approved | Receiver spurious emission for co-located base stations | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.141 | 95 | | R99 | F | RP-12 | RP-010355 | R4-010592 | approved | Correction to core requirement spectrum mask | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.141 | 96 | | Rel-4 | A | RP-12 | RP-010355 | R4-010687 | approved | Correction to core requirement spectrum mask | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.142 | 57 | | R99 | F | RP-12 | RP-010356 | R4-010688 | approved | Application of blocking requirement | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.142 | 58 | | Rel-4 | A | RP-12 | RP-010356 | R4-010802 | approved | Application of blocking requirement | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.142 | 59 | | Rel-4 | F | RP-12 | RP-010366 | R4-010508 | approved | clarification of transmit intermodulation requirements | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.142 | 60 | | Rel-4 | F | RP-12 | RP-010366 | R4-010507 | approved | CR on subclause 6.6.3 "Spurious emissions" | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.142 | 61 | | R99 | F | RP-12 | RP-010356 | R4-010505 | approved | correction of the upper frequency limit for Tx spurious emissions measurements | 3.5.0 | 3.6.0 | R4 | TEI |
| 25.142 | 62 | | Rel-4 | A | RP-12 | RP-010356 | R4-010786 | approved | correction of the upper frequency limit for Tx spurious emissions measurements | 4.0.0 | 4.1.0 | R4 | TEI |
| 25.142 | 63 | | Rel-4 | F | RP-12 | RP-010366 | R4-010803 | approved | Application of blocking requirement for 1.28 Mcps | 4.0.0 | 4.1.0 | R4 | LCRTDD-RF |
| 25.142 | 64 | | Rel-4 | F | RP-12 | RP-010366 | R4-010812 | approved | BS EVM definition correction | 4.0.0 | 4.1.0 | R4 | TEI4 |
| 25.143 | 1 | | Rel-4 | F | RP-12 | RP-010367 | R4-010726 | approved | Measurement uncertainty corrections | 4.0.0 | 4.1.0 | R4 | RInImp-REP |
| 25.211 | 097 | - | R99 | F | RP-12 | RP-010331 | R1-01-0457 | approved | Downlink Phase Reference for DL-DPCCH for CPCH | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.211 | 098 | - | Rel-4 | A | RP-12 | RP-010331 | R1-01-0457 | approved | Downlink Phase Reference for DL-DPCCH for CPCH | 4.0.0 | 4.1.0 | R1 | TEI |

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| 25.211 | 099 | - | R99 | F | RP-12 | RP-010331 | R1-01-0460 | approved | Removal of out-of-date reference to FACH beamforming | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.211 | 100 | - | Rel-4 | A | RP-12 | RP-010331 | R1-01-0460 | approved | Removal of out-of-date reference to FACH beamforming | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.211 | 101 | - | R99 | F | RP-12 | RP-010331 | R1-01-0466 | approved | Correction of compressed mode by puncturing | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.211 | 102 | - | Rel-4 | A | RP-12 | RP-010331 | R1-01-0466 | approved | Correction of compressed mode by puncturing | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.211 | 103 | - | R99 | F | RP-12 | RP-010331 | R1-01-0497 | approved | Correction of the representation of slot format | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.211 | 104 | - | Rel-4 | A | RP-12 | RP-010331 | R1-01-0497 | approved | Correction of the representation of slot format | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.211 | 105 | 1 | R99 | F | RP-12 | RP-010331 | R1-01-0613 | approved | Clarification of PDSCH definition | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.211 | 106 | 1 | Rel-4 | A | RP-12 | RP-010331 | R1-01-0613 | approved | Clarification of PDSCH definition | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.212 | 105 | - | R99 | F | RP-12 | RP-010332 | R1-01-0466 | approved | Correction of compressed mode by puncturing | 3.5.0 | 3.6.0 | R1 | TEI |
| 25.212 | 106 | - | Rel-4 | A | RP-12 | RP-010332 | R1-01-0466 | approved | Correction of compressed mode by puncturing | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.212 | 107 | 1 | R99 | F | RP-12 | RP-010332 | R1-01-0565 | approved | Dual transport format detection | 3.5.0 | 3.6.0 | R1 | TEI |
| 25.212 | 108 | 1 | Rel-4 | A | RP-12 | RP-010332 | R1-01-0565 | approved | Dual transport format detection | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.212 | 111 | 1 | R99 | F | RP-12 | RP-010332 | R1-01-0627 | approved | Correction for downlink rate matching for the DSCH | 3.5.0 | 3.6.0 | R1 | TEI |
| 25.212 | 112 | 1 | Rel-4 | A | RP-12 | RP-010332 | R1-01-0627 | approved | Correction for downlink rate matching for the DSCH | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.213 | 040 | 1 | R99 | F | RP-12 | RP-010333 | R1-01-0566 | approved | Clarification of DL channelization code alignment | 3.5.0 | 3.6.0 | R1 | TEI |
| 25.213 | 041 | 1 | Rel-4 | A | RP-12 | RP-010333 | R1-01-0566 | approved | Clarification of DL channelization code alignment | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.213 | 042 | 1 | R99 | F | RP-12 | RP-010333 | R1-01-0662 | approved | Clarification of PDSCH root channelisation code definition | 3.5.0 | 3.6.0 | R1 | TEI |
| 25.213 | 043 | 1 | Rel-4 | A | RP-12 | RP-010333 | R1-01-0662 | approved | Clarification of PDSCH root channelisation code definition | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.214 | 164 | 1 | Rel-4 | F | RP-12 | RP-010341 | R1-01-0632 | approved | Clarification on the usage of SSDT signaling in uplink | 4.0.0 | 4.1.0 | R1 | U-RInImp-DSCHsho |
| 25.214 | 165 | 1 | R99 | D | RP-12 | RP-010334 | R1-01-0554 | approved | Limited power raise: aligning of terminology with TS25.433 | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.214 | 166 | 1 | Rel-4 | A | RP-12 | RP-010334 | R1-01-0554 | approved | Limited power raise: aligning of terminology with TS25.433 | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.214 | 167 | 1 | Rel-4 | A | RP-12 | RP-010334 | R1-01-0617 | approved | Correction of IPDL burst parameters | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.214 | 168 | 1 | R99 | F | RP-12 | RP-010334 | R1-01-0614 | approved | Correction of synchronisation primitives | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.214 | 169 | 1 | Rel-4 | A | RP-12 | RP-010334 | R1-01-0614 | approved | Correction of synchronisation primitives | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.214 | 176 | 1 | R99 | F | RP-12 | RP-010334 | R1-01-0615 | approved | Clarification on TPC command generation on downlink during RL initialisation | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.214 | 177 | 1 | Rel-4 | A | RP-12 | RP-010334 | R1-01-0615 | approved | Clarification on TPC command generation on downlink during RL initialisation | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.214 | 180 | 2 | R99 | F | RP-12 | RP-010334 | R1-01-0666 | revised | Clarification of synchronisation procedures | 3.6.0 | | R1 | TEI |

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| 25.214 | 180 | 3 | R99 | F | RP-12 | RP-010441 | | revised | Clarification of synchronisation procedures | 3.6.0 | | R1 | TEI |
| 25.214 | 180 | 4 | R99 | F | RP-12 | RP-010482 | | approved | Clarification of synchronisation procedures | 3.6.0 | | R1 | TEI |
| 25.214 | 181 | 2 | Rel-4 | A | RP-12 | RP-010334 | R1-01-0666 | revised | Clarification of synchronisation procedures | 4.0.0 | | R1 | TEI |
| 25.214 | 181 | 3 | Rel-4 | A | RP-12 | RP-010441 | | revised | Clarification of synchronisation procedures | 4.0.0 | | R1 | TEI |
| 25.214 | 181 | 4 | Rel-4 | A | RP-12 | RP-010482 | | approved | Clarification of synchronisation procedures | 4.0.0 | | R1 | TEI |
| 25.214 | 182 | - | R99 | F | RP-12 | RP-010334 | R1-01-0517 | approved | Clarification of initialisation of closed loop mode 1 and 2 during compressed mode | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.214 | 183 | - | Rel-4 | A | RP-12 | RP-010334 | R1-01-0517 | approved | Clarification of initialisation of closed loop mode 1 and 2 during compressed mode | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.214 | 184 | 1 | R99 | F | RP-12 | RP-010334 | R1-01-0617 | approved | Correction of IPDL burst parameters | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.214 | 185 | - | R99 | F | RP-12 | RP-010334 | R1-01-0658 | approved | DL maximum power level in compressed mode | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.214 | 186 | - | Rel-4 | A | RP-12 | RP-010334 | R1-01-0658 | approved | DL maximum power level in compressed mode | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.215 | 087 | - | R99 | F | RP-12 | RP-010335 | R1-01-0470 | approved | Renaming of LCS measurements | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.215 | 087 | 1 | R99 | F | RP-12 | RP-010456 | | approved | Renaming of LCS measurements | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.215 | 088 | - | Rel-4 | A | RP-12 | RP-010335 | R1-01-0470 | approved | Renaming of LCS measurements | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.215 | 088 | 1 | Rel-4 | A | RP-12 | RP-010456 | | approved | Renaming of LCS measurements | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.215 | 089 | 1 | R99 | F | RP-12 | RP-010335 | R1-01-0625 | revised | Correction the TrCH BLER measurement | 3.6.0 | | R1 | TEI |
| 25.215 | 090 | 1 | Rel-4 | A | RP-12 | RP-010335 | R1-01-0625 | revised | Correction the TrCH BLER measurement | 4.0.0 | | R1 | TEI |
| 25.221 | 047 | 1 | R99 | F | RP-12 | RP-010336 | R1-01-0500 | approved | Clarification of Midamble Usage in TS25.221 | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.221 | 049 | - | Rel-4 | D | RP-12 | RP-010342 | R1-01-0448 | approved | Correction of spelling in definition of beacon characteristics | 4.0.0 | 4.1.0 | R1 | U-LCS1-Uepos |
| 25.221 | 050 | 2 | R99 | F | RP-12 | RP-010336 | R1-01-0628 | approved | Addition to the abbreviation list, correction of references to tables and figures | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.221 | 051 | - | Rel-4 | A | RP-12 | RP-010336 | R1-01-0501 | approved | Clarification of Midamble Usage in TS25.221 | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.221 | 053 | - | Rel-4 | A | RP-12 | RP-010336 | R1-01-0628 | approved | Addition to the abbreviation list, correction of references to tables and figures | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.221 | 055 | - | Rel-4 | F | RP-12 | RP-010342 | R1-01-0641 | approved | Correction of Note for PDSCH signalling methods | 4.0.0 | 4.1.0 | R1 | TEI4 |
| 25.223 | 018 | - | R99 | F | RP-12 | RP-010337 | R1-01-0451 | approved | Addition to the abbreviation list and definition of a constant | 3.5.0 | 3.6.0 | R1 | TEI |
| 25.223 | 019 | - | Rel-4 | A | RP-12 | RP-010337 | R1-01-0629 | approved | Addition to the abbreviation list and definition of a constant | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.224 | 049 | - | Rel-4 | D | RP-12 | RP-010343 | R1-01-0449 | approved | Clarification of IP_Frame(x) definition | 4.0.0 | 4.1.0 | R1 | U-LCS1-Uepos |
| 25.224 | 054 | 2 | R99 | F | RP-12 | RP-010338 | R1-01-0630 | approved | Addition to the abbreviation list | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.224 | 055 | 1 | Rel-4 | F | RP-12 | RP-010343 | R1-01-0618 | approved | Correction of IPDL burst parameters | 4.0.0 | 4.1.0 | R1 | U-LCS1-Uepos |
| 25.224 | 056 | - | R99 | F | RP-12 | RP-010338 | R1-01-0474 | approved | Correction of Timing Advance section for 3.84 Mcps TDD | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.224 | 057 | - | Rel-4 | A | RP-12 | RP-010338 | R1-01-0494 | approved | Correction of Timing Advance section for 3.84 | 4.0.0 | 4.1.0 | R1 | TEI |

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| | | | | | | | | | Mcps TDD | | | | |
| 25.224 | 059 | - | Rel-4 | A | RP-12 | RP-010338 | R1-01-0630 | approved | Addition to the abbreviation list | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.225 | 026 | 1 | R99 | F | RP-12 | RP-010339 | R1-01-0631 | approved | Addition to the abbreviation list | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.225 | 028 | - | R99 | F | RP-12 | RP-010339 | R1-01-0593 | approved | Renaming of LCS measurements | 3.6.0 | 3.7.0 | R1 | TEI |
| 25.225 | 029 | - | Rel-4 | A | RP-12 | RP-010339 | R1-01-0594 | approved | Renaming of LCS measurements | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.225 | 030 | - | Rel-4 | A | RP-12 | RP-010339 | R1-01-0631 | approved | Addition to the abbreviation list | 4.0.0 | 4.1.0 | R1 | TEI |
| 25.301 | 053 | | R99 | F | RP-12 | RP-010302 | R2-011117 | approved | Clarification in the services provided to upper layers by RLC | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.301 | 054 | | Rel-4 | A | RP-12 | RP-010302 | R2-011337 | approved | Clarification in the services provided to upper layers by RLC | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.301 | 055 | 1 | R99 | F | RP-12 | RP-010302 | R2-011322 | approved | Cleanup of Layer 2 services and functions | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.301 | 056 | | Rel-4 | A | RP-12 | RP-010302 | R2-011338 | approved | Cleanup of Layer 2 services and functions | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.302 | 099 | 1 | R99 | F | RP-12 | RP-010303 | R2-011404 | approved | Physical Channel Combination | 3.8.0 | 3.9.0 | R2 | TEI |
| 25.302 | 100 | | Rel-4 | A | RP-12 | RP-010303 | R2-011405 | approved | Physical Channel Combination | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.302 | 101 | 1 | R99 | F | RP-12 | RP-010303 | R2-011406 | approved | General corrections and clarifications | 3.8.0 | 3.9.0 | R2 | TEI |
| 25.302 | 102 | | Rel-4 | A | RP-12 | RP-010303 | R2-011407 | approved | General corrections and clarifications | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.302 | 103 | | Rel-4 | F | RP-12 | RP-010320 | R2-011152 | approved | Correction to transport formats for common channels in 1.28Mcps TDD | 4.0.0 | 4.1.0 | R2 | LCRTDD-L23 |
| 25.302 | 104 | | R99 | F | RP-12 | RP-010303 | R2-011157 | approved | Definition of empty TF and TFC | 3.8.0 | 3.9.0 | R2 | TEI |
| 25.302 | 105 | | Rel-4 | A | RP-12 | RP-010303 | R2-011339 | approved | Definition of empty TF and TFC | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.302 | 106 | | Rel-4 | F | RP-12 | RP-010320 | R2-011166 | approved | Timing Advance (TADV) for 1.28Mcps TDD | 4.0.0 | 4.1.0 | R2 | LCRTDD-L23 |
| 25.303 | 045 | 1 | R99 | F | RP-12 | RP-010304 | R2-011408 | approved | Corrections to procedure examples | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.303 | 046 | | Rel-4 | A | RP-12 | RP-010304 | R2-011409 | approved | Corrections to procedure examples | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.304 | 071 | 2 | R99 | F | RP-12 | RP-010305 | R2-011397 | approved | Corrections to 25.304 | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.304 | 072 | | Rel-4 | A | RP-12 | RP-010305 | R2-011398 | approved | Corrections to 25.304 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.304 | 073 | 1 | R99 | F | RP-12 | RP-010305 | R2-011401 | revised | Emergency calls in barred cells | 3.6.0 | | R2 | TEI |
| 25.304 | 073 | 2 | R99 | F | RP-12 | RP-010435 | | approved | Emergency calls in barred cells | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.304 | 074 | | Rel-4 | A | RP-12 | RP-010305 | R2-011402 | revised | Emergency calls in barred cells | 4.0.0 | | R2 | TEI |
| 25.304 | 074 | 1 | Rel-4 | A | RP-12 | RP-010435 | | approved | Emergency calls in barred cells | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.304 | 077 | 1 | R99 | F | RP-12 | RP-010305 | R2-011417 | approved | Clarification to usage of measurement thresholds | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.304 | 078 | | Rel-4 | A | RP-12 | RP-010305 | R2-011418 | approved | Clarification to usage of measurement thresholds | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.305 | 051 | | R99 | F | RP-12 | RP-010306 | R2-011080 | approved | Removal of positioning request transfer during SRNS relocation | 3.5.0 | 3.6.0 | R2 | TEI |
| 25.305 | 052 | | Rel-4 | A | RP-12 | RP-010306 | R2-011410 | approved | Removal of positioning request transfer during SRNS relocation | 4.0.0 | 4.1.0 | R2 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.305 | 053 | | Rel-5 | A | RP-12 | RP-010306 | R2-011411 | approved | Removal of positioning request transfer during SRNS relocation | 5.0.0 | 5.1.0 | R2 | TEI |
| 25.305 | 054 | | Rel-5 | F | RP-12 | RP-010325 | R2-011182 | approved | Iupc architectural aspects modifications | 5.0.0 | 5.1.0 | R2 | LCS-INTF |
| 25.305 | 055 | | Rel-5 | F | RP-12 | RP-010325 | R2-011183 | approved | Removal of RAN3 dependency w.r.t. PCAP signalling flows | 5.0.0 | 5.1.0 | R2 | LCS-INTF |
| 25.305 | 056 | 2 | Rel-5 | C | RP-12 | RP-010325 | R2-011506 | approved | PCAP message flows | 5.0.0 | 5.1.0 | R2 | LCS-INTF |
| 25.306 | 009 | 6 | Rel-4 | C | RP-12 | RP-010321 | R2-011391 | approved | Modified UE Capability for CPCH | 4.0.0 | 4.1.0 | R2 | TEI4 |
| 25.306 | 012 | 1 | R99 | F | RP-12 | RP-010307 | R2-011412 | approved | Clarification on the number of CCTrCHs to be received simultaneously by the UE | 3.1.0 | 3.2.0 | R2 | TEI |
| 25.306 | 013 | | Rel-4 | A | RP-12 | RP-010307 | R2-011413 | approved | Clarification on the number of CCTrCHs to be received simultaneously by the UE | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.307 | 001 | | Rel-4 | | RP-12 | RP-010438 | | postponed | Correction to create Release 4 | 3.0.0 | | R2 | TEI4 |
| 25.321 | 073 | 1 | R99 | F | RP-12 | RP-010308 | R2-011307 | approved | RLC Tr Discard | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.321 | 074 | | Rel-4 | A | RP-12 | RP-010308 | R2-011340 | approved | RLC Tr Discard | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.321 | 075 | 1 | R99 | F | RP-12 | RP-010308 | R2-011308 | approved | Clarification on compressed mode | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.321 | 076 | | Rel-4 | A | RP-12 | RP-010308 | R2-011341 | approved | Clarification on compressed mode | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.321 | 077 | 1 | R99 | F | RP-12 | RP-010308 | R2-011309 | approved | Correction of relation between MAC functions and transport channels | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.321 | 078 | | Rel-4 | A | RP-12 | RP-010308 | R2-011342 | approved | Correction of relation between MAC functions and transport channels | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.321 | 079 | 1 | R99 | F | RP-12 | RP-010308 | R2-011324 | approved | Rate adaptation | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.321 | 080 | | Rel-4 | A | RP-12 | RP-010308 | R2-011343 | approved | Rate adaptation | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.321 | 081 | 1 | R99 | F | RP-12 | RP-010308 | R2-011310 | approved | Cleanup of MAC services and functions | 3.7.0 | 3.8.0 | R2 | TEI |
| 25.321 | 082 | | Rel-4 | A | RP-12 | RP-010308 | R2-011344 | approved | Cleanup of MAC services and functions | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.321 | 083 | | Rel-4 | F | RP-12 | RP-010322 | R2-011153 | approved | Correction to control of RACH Transmissions for 1.28Mcps TDD | 4.0.0 | 4.1.0 | R2 | LCRTDD-L23 |
| 25.322 | 119 | 1 | R99 | F | RP-12 | RP-010309 | R2-011311 | approved | Clarification on ACK SUFI | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 120 | | Rel-4 | A | RP-12 | RP-010309 | R2-011345 | approved | Clarification on ACK SUFI | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 121 | 1 | R99 | F | RP-12 | RP-010309 | R2-011312 | approved | MRW SUFI clarification and enhancement | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 122 | | Rel-4 | A | RP-12 | RP-010309 | R2-011346 | approved | MRW SUFI clarification and enhancement | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 123 | 1 | R99 | F | RP-12 | RP-010309 | R2-011313 | approved | Clarification on AM states | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 124 | | Rel-4 | A | RP-12 | RP-010309 | R2-011347 | approved | Clarification on AM states | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 125 | 1 | R99 | F | RP-12 | RP-010309 | R2-011314 | approved | Clarification on HFN update in RESET procedure | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 126 | | Rel-4 | A | RP-12 | RP-010309 | R2-011348 | approved | Clarification on HFN update in RESET procedure | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 127 | 1 | R99 | F | RP-12 | RP-010309 | R2-011315 | approved | Clarification of RLC Discard | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 128 | | Rel-4 | A | RP-12 | RP-010309 | R2-011349 | approved | Clarification of RLC Discard | 4.0.0 | 4.1.0 | R2 | TEI |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.322 | 129 | | R99 | F | RP-12 | RP-010309 | R2-011118 | approved | Removal of reference to RRC | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 130 | | Rel-4 | A | RP-12 | RP-010309 | R2-011350 | approved | Removal of reference to RRC | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 131 | 1 | R99 | F | RP-12 | RP-010309 | R2-011316 | approved | Clarification in the LI Parameters section | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 132 | | Rel-4 | A | RP-12 | RP-010309 | R2-011351 | approved | Clarification in the LI Parameters section | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 135 | 1 | R99 | F | RP-12 | RP-010309 | R2-011317 | approved | Cleanup of RLC services and functions | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 136 | | Rel-4 | A | RP-12 | RP-010309 | R2-011352 | approved | Cleanup of RLC services and functions | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 137 | 1 | R99 | F | RP-12 | RP-010309 | R2-011318 | approved | Clarification on RLC re-establishment | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 138 | 1 | Rel-4 | A | RP-12 | RP-010309 | R2-011505 | approved | Clarification on RLC re-establishment | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.322 | 139 | 1 | R99 | F | RP-12 | RP-010309 | R2-011320 | approved | Corrections and clarifications to the LIST and RLIST SUFI types | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.322 | 140 | | Rel-4 | A | RP-12 | RP-010309 | R2-011354 | approved | Corrections and clarifications to the LIST and RLIST SUFI types | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.323 | 020 | 1 | R99 | F | RP-12 | RP-010310 | R2-011321 | approved | Clarification on PDCP Sequence numbering | 3.4.0 | 3.5.0 | R2 | TEI |
| 25.323 | 021 | | Rel-4 | A | RP-12 | RP-010310 | R2-011355 | approved | Clarification on PDCP Sequence numbering | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 730 | 1 | R99 | F | RP-12 | RP-010311 | R2-011222 | approved | Clarification of the IE 'spreading factor' in Uplink DPCH info for FDD mode | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 731 | | Rel-4 | A | RP-12 | RP-010311 | R2-011223 | approved | Clarification of the IE 'spreading factor' in Uplink DPCH info for FDD mode | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 732 | 1 | R99 | F | RP-12 | RP-010311 | R2-011224 | approved | Correction of UE Radio Access Capability depending on UTRAN FDD bands | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 733 | | Rel-4 | A | RP-12 | RP-010311 | R2-011225 | approved | Correction of UE Radio Access Capability depending on UTRAN FDD bands | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 734 | 2 | R99 | F | RP-12 | RP-010311 | R2-011424 | approved | Clarification on Security mode control | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 735 | | Rel-4 | A | RP-12 | RP-010311 | R2-011425 | approved | Clarification on Security mode control | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 737 | 1 | R99 | F | RP-12 | RP-010311 | R2-011226 | approved | Correction of TrCH parameter handling | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 738 | | Rel-4 | A | RP-12 | RP-010311 | R2-011227 | approved | Correction of TrCH parameter handling | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 739 | 1 | R99 | F | RP-12 | RP-010311 | R2-011228 | approved | TFC Subsets in TDD | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 740 | | Rel-4 | A | RP-12 | RP-010311 | R2-011229 | approved | TFC Subsets in TDD | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 745 | 2 | R99 | F | RP-12 | RP-010311 | R2-011426 | approved | RRC containers | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 746 | | Rel-4 | A | RP-12 | RP-010311 | R2-011427 | approved | RRC containers | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 747 | 1 | R99 | F | RP-12 | RP-010311 | R2-011232 | approved | Various corrections | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 748 | | Rel-4 | A | RP-12 | RP-010311 | R2-011233 | approved | Various corrections | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 749 | 1 | R99 | F | RP-12 | RP-010311 | R2-011235 | approved | General error handling for system information | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 750 | | Rel-4 | A | RP-12 | RP-010311 | R2-011236 | approved | General error handling for system information | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 751 | 1 | R99 | F | RP-12 | RP-010311 | R2-011332 | approved | Order of elements in strings | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 752 | | Rel-4 | A | RP-12 | RP-010311 | R2-011429 | approved | Order of elements in strings | 4.0.0 | 4.1.0 | R2 | TEI |

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| 25.331 | 753 | 1 | R99 | F | RP-12 | RP-010311 | R2-011241 | approved | Configuration consistency checks | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 754 | | Rel-4 | A | RP-12 | RP-010311 | R2-011474 | approved | Configuration consistency checks | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 755 | 1 | R99 | F | RP-12 | RP-010312 | R2-011244 | approved | Compressed mode corrections | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 756 | | Rel-4 | A | RP-12 | RP-010312 | R2-011245 | approved | Compressed mode corrections | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 757 | 1 | R99 | F | RP-12 | RP-010312 | R2-011246 | approved | Correction concerning inter-RAT procedures | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 758 | | Rel-4 | A | RP-12 | RP-010312 | R2-011247 | approved | Correction concerning inter-RAT procedures | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 761 | 1 | R99 | F | RP-12 | RP-010312 | R2-011248 | approved | Measurement corrections | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 762 | | Rel-4 | A | RP-12 | RP-010312 | R2-011249 | approved | Measurement corrections | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 763 | | R99 | F | RP-12 | RP-010312 | R2-011071 | approved | RLC Tr Discard | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 764 | | Rel-4 | A | RP-12 | RP-010312 | R2-011356 | approved | RLC Tr Discard | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 765 | 1 | R99 | F | RP-12 | RP-010312 | R2-011252 | approved | Annex B CPCH Correction in R'99 | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 766 | | Rel-4 | A | RP-12 | RP-010312 | R2-011253 | approved | Annex B CPCH Correction in R'99 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 767 | 1 | R99 | F | RP-12 | RP-010312 | R2-011254 | approved | SIB Correction for CSICH Power Offset | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 768 | | Rel-4 | A | RP-12 | RP-010312 | R2-011255 | approved | SIB Correction for CSICH Power Offset | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 769 | 1 | R99 | F | RP-12 | RP-010312 | R2-011430 | approved | Transfer of Last known position in case of SRNS relocation | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 770 | | Rel-4 | A | RP-12 | RP-010312 | R2-011431 | approved | Transfer of Last known position in case of SRNS relocation | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 771 | 1 | R99 | F | RP-12 | RP-010312 | R2-011433 | approved | Corrections to UE Positioning measurements | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 772 | | Rel-4 | A | RP-12 | RP-010312 | R2-011434 | approved | Corrections to UE Positioning measurements | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 773 | | Rel-4 | F | RP-12 | RP-010323 | R2-011083 | approved | Corrections to IPDLs for TDD | 4.0.0 | 4.1.0 | R2 | LCS1-UEpos-enh |
| 25.331 | 778 | 1 | R99 | F | RP-12 | RP-010312 | R2-011256 | approved | GSM measurements in compressed mode | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 779 | | Rel-4 | A | RP-12 | RP-010312 | R2-011257 | approved | GSM measurements in compressed mode | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 780 | 2 | R99 | F | RP-12 | RP-010312 | R2-011435 | approved | Correction of Activation Time in Inter-Rat HO Commands | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 781 | | Rel-4 | A | RP-12 | RP-010312 | R2-011436 | approved | Correction of Activation Time in Inter-Rat HO Commands | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 784 | 1 | R99 | F | RP-12 | RP-010313 | R2-011437 | approved | Clarification of FRESH in SRNS relocation | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 785 | | Rel-4 | A | RP-12 | RP-010313 | R2-011438 | approved | Clarification of FRESH in SRNS relocation | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 788 | 1 | R99 | F | RP-12 | RP-010313 | R2-011259 | approved | Correction to UE timers and constants in idle mode | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 789 | | Rel-4 | A | RP-12 | RP-010313 | R2-011439 | approved | Correction to UE timers and constants in idle mode | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 792 | 1 | R99 | F | RP-12 | RP-010313 | R2-011260 | approved | Clarification on multiframe allocation in TDD | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 793 | | Rel-4 | A | RP-12 | RP-010313 | R2-011261 | approved | Clarification on multiframe allocation in TDD | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 794 | 1 | R99 | F | RP-12 | RP-010313 | R2-011262 | approved | Predefined parameters for logical channels | 3.6.0 | 3.7.0 | R2 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
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| 25.331 | 795 | | Rel-4 | A | RP-12 | RP-010313 | R2-011263 | approved | Predefined parameters for logical channels | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 796 | 1 | R99 | F | RP-12 | RP-010313 | R2-011250 | approved | Pathloss calculation | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 797 | | Rel-4 | A | RP-12 | RP-010313 | R2-011251 | approved | Pathloss calculation | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 798 | 1 | R99 | F | RP-12 | RP-010313 | R2-011264 | approved | Clarification on periodic measurement reporting | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 799 | | Rel-4 | A | RP-12 | RP-010313 | R2-011265 | approved | Clarification on periodic measurement reporting | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 802 | 2 | R99 | F | RP-12 | RP-010313 | R2-011399 | approved | Handling of IE PRACH TFCS and Primary CPICH/Primary CCPCH info | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 803 | 1 | Rel-4 | A | RP-12 | RP-010313 | R2-011400 | approved | Handling of IE PRACH TFCS and Primary CPICH/Primary CCPCH info | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 804 | 1 | R99 | F | RP-12 | RP-010313 | R2-011268 | approved | Correction to FACH measurement occasion in TDD | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 805 | | Rel-4 | A | RP-12 | RP-010313 | R2-011269 | approved | Correction to FACH measurement occasion in TDD | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 806 | 2 | R99 | F | RP-12 | RP-010313 | R2-011440 | approved | Clarification of L1 synchronization procedures | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 807 | | Rel-4 | A | RP-12 | RP-010313 | R2-011441 | approved | Clarification of L1 synchronization procedures | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 808 | 1 | R99 | F | RP-12 | RP-010313 | R2-011234 | approved | Correction of Activation Time definition | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 809 | | Rel-4 | A | RP-12 | RP-010313 | R2-011442 | approved | Correction of Activation Time definition | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 812 | 1 | R99 | F | RP-12 | RP-010314 | R2-011270 | approved | Corrections to RRC procedure performance | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 813 | | Rel-4 | A | RP-12 | RP-010314 | R2-011271 | approved | Corrections to RRC procedure performance | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 814 | 1 | R99 | F | RP-12 | RP-010314 | R2-011272 | approved | Removal of mapping function | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 815 | | Rel-4 | A | RP-12 | RP-010314 | R2-011273 | approved | Removal of mapping function | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 816 | 3 | R99 | F | RP-12 | RP-010314 | R2-011489 | approved | Security clarifications | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 817 | | Rel-4 | A | RP-12 | RP-010314 | R2-011490 | approved | Security clarifications | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 818 | 1 | R99 | F | RP-12 | RP-010314 | R2-011443 | approved | Corrections to UE Positioning | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 819 | | Rel-4 | A | RP-12 | RP-010314 | R2-011444 | approved | Corrections to UE Positioning | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 824 | 1 | R99 | F | RP-12 | RP-010314 | R2-011281 | approved | Definition of DPCH numbering | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 825 | | Rel-4 | A | RP-12 | RP-010314 | R2-011282 | approved | Definition of DPCH numbering | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 826 | 4 | R99 | F | RP-12 | RP-010314 | R2-011403 | approved | Corrections to System Information Procedure | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 827 | | Rel-4 | A | RP-12 | RP-010314 | R2-011446 | approved | Corrections to System Information Procedure | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 828 | 1 | R99 | F | RP-12 | RP-010314 | R2-011284 | approved | Relation between DOFF and DPCH Frame Offset | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 829 | | Rel-4 | A | RP-12 | RP-010314 | R2-011445 | approved | Relation between DOFF and DPCH Frame Offset | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 830 | 1 | R99 | F | RP-12 | RP-010314 | R2-011288 | approved | Procedures for "same as UL" | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 831 | | Rel-4 | A | RP-12 | RP-010314 | R2-011289 | approved | Procedures for "same as UL" | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 836 | 1 | R99 | F | RP-12 | RP-010314 | R2-011303 | approved | Editorial and minor corrections | 3.6.0 | 3.7.0 | R2 | TEI |

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| 25.331 | 837 | | Rel-4 | A | RP-12 | RP-010314 | R2-011304 | approved | Editorial and minor corrections | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 838 | 1 | R99 | F | RP-12 | RP-010314 | R2-011447 | approved | Editorial Correction | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 839 | | Rel-4 | A | RP-12 | RP-010314 | R2-011448 | approved | Editorial Correction | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 840 | 2 | R99 | F | RP-12 | RP-010315 | R2-011451 | rejected | UE Positioning Measurement Accuracy Indication | 3.6.0 | | R2 | TEI |
| 25.331 | 840 | 3 | R99 | F | RP-12 | RP-010466 | | revised | UE Positioning Measurement Accuracy Indication | 3.6.0 | | R2 | TEI |
| 25.331 | 840 | 4 | R99 | F | RP-12 | RP-010479 | | withdrawn | UE Positioning Measurement Accuracy Indication | 3.6.0 | | R2 | TEI |
| 25.331 | 841 | | Rel-4 | A | RP-12 | RP-010315 | R2-011475 | rejected | UE Positioning Measurement Accuracy Indication | 4.0.0 | | R2 | TEI |
| 25.331 | 841 | 1 | Rel-4 | A | RP-12 | RP-010466 | | revised | UE Positioning Measurement Accuracy Indication | 4.0.0 | | R2 | TEI |
| 25.331 | 841 | 2 | Rel-4 | A | RP-12 | RP-010479 | | withdrawn | UE Positioning Measurement Accuracy Indication | 4.0.0 | | R2 | TEI |
| 25.331 | 842 | 1 | R99 | F | RP-12 | RP-010315 | R2-011449 | approved | Corrections on OTDOA-IPDL specific burst parameter semantic description | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 843 | | Rel-4 | A | RP-12 | RP-010315 | R2-011450 | approved | Corrections on OTDOA-IPDL specific burst parameter semantic description | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 844 | 1 | R99 | F | RP-12 | RP-010315 | R2-011290 | approved | Error handling for messages sent from another RAT | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 845 | | Rel-4 | A | RP-12 | RP-010315 | R2-011291 | approved | Error handling for messages sent from another RAT | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 848 | 2 | R99 | F | RP-12 | RP-010315 | R2-011292 | approved | Needed TFC in the TFCS for TDD | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 849 | | Rel-4 | A | RP-12 | RP-010315 | R2-011293 | approved | Needed TFC in the TFCS for TDD | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 850 | 2 | Rel-4 | F | RP-12 | RP-010323 | R2-011390 | approved | Correction to 1.28Mcps TDD RACH parameters and operation | 4.0.0 | 4.1.0 | R2 | LCRTDD-L23 |
| 25.331 | 851 | | Rel-4 | F | RP-12 | RP-010323 | R2-011155 | approved | TFCI coding in case of 8PSK | 4.0.0 | 4.1.0 | R2 | LCRTDD-L23 |
| 25.331 | 854 | | R99 | F | RP-12 | RP-010315 | R2-011159 | approved | Clarification of TFCS selection guidelines | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 855 | | Rel-4 | A | RP-12 | RP-010315 | R2-011357 | approved | Clarification of TFCS selection guidelines | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 860 | 1 | R99 | F | RP-12 | RP-010315 | R2-011323 | approved | Clarification of Traffic Volume measurements | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 861 | | Rel-4 | A | RP-12 | RP-010315 | R2-011360 | approved | Clarification of Traffic Volume measurements | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 862 | 1 | R99 | F | RP-12 | RP-010315 | R2-011299 | approved | CFN synchronisation problems at timing re-initialised hard handover | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 863 | | Rel-4 | A | RP-12 | RP-010315 | R2-011300 | approved | CFN synchronisation problems at timing re-initialised hard handover | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 865 | 2 | R99 | F | RP-12 | RP-010315 | R2-011452 | approved | Corrections on UP Assistance Message Descriptions | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 866 | | Rel-4 | A | RP-12 | RP-010315 | R2-011453 | approved | Corrections on UP Assistance Message Descriptions | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 867 | 2 | R99 | F | RP-12 | RP-010315 | R2-011454 | approved | Correction on Area Scope of SIB 15.3 | 3.6.0 | 3.7.0 | R2 | TEI |

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| 25.331 | 868 | | Rel-4 | A | RP-12 | RP-010315 | R2-011455 | approved | Correction on Area Scope of SIB 15.3 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 871 | 1 | R99 | F | RP-12 | RP-010315 | R2-011301 | approved | Correction to AICH power offset | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 872 | | Rel-4 | A | RP-12 | RP-010315 | R2-011302 | approved | Correction to AICH power offset | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 873 | | Rel-5 | B | RP-12 | RP-010324 | R2-011237 | postponed | Introduction of UTRA FDD 1800 MHz frequency band | 4.0.0 | | R2 | RInImp-UMTS18 |
| 25.331 | 874 | | R99 | F | RP-12 | RP-010316 | R2-011243 | approved | Clarification on IE 'Downlink rate matching restriction information' | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 875 | | Rel-4 | A | RP-12 | RP-010316 | R2-011456 | approved | Clarification on IE 'Downlink rate matching restriction information' | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 876 | 1 | R99 | F | RP-12 | RP-010316 | R2-011491 | approved | Corrections on Tabular/ASN.1 | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 877 | | Rel-4 | A | RP-12 | RP-010316 | R2-011492 | approved | Corrections on Tabular/ASN.1 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 878 | 2 | R99 | F | RP-12 | RP-010316 | R2-011493 | approved | Corrections on Tabular and ASN.1 inconsistencies | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 879 | | Rel-4 | A | RP-12 | RP-010316 | R2-011494 | approved | Corrections on Tabular and ASN.1 inconsistencies | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 880 | 1 | R99 | F | RP-12 | RP-010316 | R2-011495 | approved | Editorial corrections on Tabular and ASN.1 inconsistencies | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 881 | | Rel-4 | A | RP-12 | RP-010316 | R2-011496 | approved | Editorial corrections on Tabular and ASN.1 inconsistencies | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 882 | 1 | R99 | F | RP-12 | RP-010316 | R2-011497 | approved | UE Positioning corrections to ASN.1 and tabular | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 883 | | Rel-4 | A | RP-12 | RP-010316 | R2-011498 | approved | UE Positioning corrections to ASN.1 and tabular | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 884 | 1 | R99 | F | RP-12 | RP-010316 | R2-011499 | approved | Corrections to resolve inconsistencies between Tabular and ASN.1 | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 885 | | Rel-4 | A | RP-12 | RP-010316 | R2-011500 | approved | Corrections to resolve inconsistencies between Tabular and ASN.1 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 886 | 1 | R99 | F | RP-12 | RP-010316 | R2-011463 | approved | UE positioning OTDOA Neighbour Cell Info | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 887 | | Rel-4 | A | RP-12 | RP-010316 | R2-011464 | approved | UE positioning OTDOA Neighbour Cell Info | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 888 | 3 | R99 | F | RP-12 | RP-010316 | R2-011465 | approved | DRAC corrections | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 889 | | Rel-4 | A | RP-12 | RP-010316 | R2-011466 | approved | DRAC corrections | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 892 | 1 | R99 | F | RP-12 | RP-010316 | R2-011467 | approved | ASN.1 Correction of IE TFCS ID | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 893 | | Rel-4 | A | RP-12 | RP-010316 | R2-011468 | approved | ASN.1 Correction of IE TFCS ID | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 894 | | R99 | F | RP-12 | RP-010316 | R2-011379 | approved | Correction of IE IODE range in AGPS Positioning | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 895 | | Rel-4 | A | RP-12 | RP-010316 | R2-011469 | approved | Correction of IE IODE range in AGPS Positioning | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 896 | | R99 | F | RP-12 | RP-010317 | R2-011380 | approved | Correction to BurstModeParameters in IPDL | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 897 | | Rel-4 | A | RP-12 | RP-010317 | R2-011470 | approved | Correction to BurstModeParameters in IPDL | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 898 | 1 | R99 | F | RP-12 | RP-010317 | R2-011501 | approved | Corrections on inconsistencies between Tabular and ASN.1 | 3.6.0 | 3.7.0 | R2 | TEI |

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| 25.331 | 899 | | Rel-4 | A | RP-12 | RP-010317 | R2-011502 | approved | Corrections on inconsistencies between Tabular and ASN.1 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 900 | | R99 | F | RP-12 | RP-010317 | R2-011392 | approved | Naming of message abstract types in ASN.1 | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 901 | | Rel-4 | A | RP-12 | RP-010317 | R2-011471 | approved | Naming of message abstract types in ASN.1 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 902 | 1 | Rel-4 | F | RP-12 | RP-010323 | R2-011472 | approved | Structure and naming of information elements | 4.0.0 | 4.1.0 | R2 | TEI4 |
| 25.331 | 903 | | R99 | F | RP-12 | RP-010317 | R2-011394 | approved | Information elements outside the extension container | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 904 | | Rel-4 | A | RP-12 | RP-010317 | R2-011473 | approved | Information elements outside the extension container | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.331 | 905 | | R99 | F | RP-12 | RP-010317 | R2-011476 | approved | Correction concerning DRX cycle upon inter-RAT change towards UTRAN | 3.6.0 | 3.7.0 | R2 | TEI |
| 25.331 | 906 | | Rel-4 | A | RP-12 | RP-010317 | R2-011477 | approved | Correction concerning DRX cycle upon inter-RAT change towards UTRAN | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.401 | 024 | | R99 | F | RP-12 | RP-010370 | R3-011312 | approved | Correction on the figure 'UTRAN Architecture' | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.401 | 025 | | Rel-4 | A | RP-12 | RP-010370 | R3-011313 | approved | Correction on the figure 'UTRAN Architecture' | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.401 | 026 | | Rel-4 | F | RP-12 | RP-010389 | R3-011314 | approved | Rel4 only changes based on R3-011195 | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.401 | 027 | 1 | R99 | F | RP-12 | RP-010370 | R3-011813 | approved | PLMN Identity | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.401 | 028 | 1 | Rel-4 | A | RP-12 | RP-010370 | R3-011814 | approved | PLMN Identity | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.401 | 029 | | Rel-4 | F | RP-12 | RP-010389 | R3-011631 | approved | Removal of Release dependency for the TNL | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.401 | 030 | 1 | Rel-5 | F | RP-12 | RP-010403 | R3-011796 | approved | Proposed draft CR to 25.401 on showing the A-GPS SMLC | 4.0.0 | 5.0.0 | R3 | LCS-INTF |
| 25.401 | 031 | | R99 | F | RP-12 | RP-010370 | R3-011798 | approved | Separation between Logical Nodes and physical Network Elements | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.401 | 032 | | Rel-4 | A | RP-12 | RP-010370 | R3-011799 | approved | Separation between Logical Nodes and physical Network Elements | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.402 | 015 | 2 | R99 | F | RP-12 | RP-010371 | R3-011362 | approved | Additional requirement for timing behaviour of NodeB | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.402 | 018 | 1 | R99 | F | RP-12 | RP-010371 | R3-011643 | approved | Network Synchronisation aspects clarification | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.402 | 019 | | Rel-4 | A | RP-12 | RP-010371 | R3-011340 | approved | Network Synchronisation aspects clarification | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.402 | 020 | | Rel-4 | A | RP-12 | RP-010371 | R3-011363 | approved | Additional requirement for timing behaviour of NodeB | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.402 | 021 | | Rel-4 | F | RP-12 | RP-010390 | R3-011412 | approved | Frequency Acquisition phase for Cell Synchronisation for TDD | 4.0.0 | 4.1.0 | R3 | RANimp-Nbsync |
| 25.402 | 022 | | Rel-4 | F | RP-12 | RP-010390 | R3-011413 | approved | Correction on TDD Radio Interface Synchronistion | 4.0.0 | 4.1.0 | R3 | LCRTDD-IubIur |
| 25.402 | 023 | | R99 | F | RP-12 | RP-010371 | R3-011481 | approved | Incorrect Figure references in FDD Radio Interface Synchronisation | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.402 | 024 | | Rel-4 | A | RP-12 | RP-010371 | R3-011482 | approved | Incorrect Figure references in FDD Radio Interface Synchronisation | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.410 | 017 | | R99 | F | RP-12 | RP-010372 | R3-011344 | approved | RANAP message in Connection Refusal | 3.3.0 | 3.4.0 | R3 | TEI |

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| 25.410 | 018 | | Rel-4 | A | RP-12 | RP-010372 | R3-011345 | approved | RANAP message in Connection Refusal | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.410 | 022 | | Rel-4 | F | RP-12 | RP-010391 | R3-011547 | approved | Iu UP initialisation direction | 4.0.0 | 4.1.0 | R3 | TrFO |
| 25.411 | 005 | | R99 | F | RP-12 | RP-010373 | R3-011341 | approved | Network Synchronisation aspects clarification | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.411 | 006 | | Rel-4 | A | RP-12 | RP-010373 | R3-011342 | approved | Network Synchronisation aspects clarification | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.411 | 007 | 1 | R99 | F | RP-12 | RP-010373 | R3-011637 | approved | Layer 1 references | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.411 | 008 | 1 | Rel-4 | A | RP-12 | RP-010373 | R3-011638 | approved | Layer 1 references | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 276 | 2 | R99 | F | RP-12 | RP-010454 | R3-011858 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 277 | 1 | Rel-4 | A | RP-12 | RP-010454 | R3-011859 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 278 | | R99 | F | RP-12 | RP-010454 | R3-011323 | approved | Reporting of Logical Error with Error Indication Procedure | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 279 | | Rel-4 | A | RP-12 | RP-010454 | R3-011324 | approved | Reporting of Logical Error with Error Indication Procedure | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 280 | | R99 | F | RP-12 | RP-010454 | R3-011331 | approved | Clarification of IEs order rule | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 281 | | Rel-4 | A | RP-12 | RP-010454 | R3-011332 | approved | Clarification of IEs order rule | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 284 | | R99 | F | RP-12 | RP-010454 | R3-011348 | approved | CN Domain Indicator in ERROR INDICATION | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 285 | | Rel-4 | A | RP-12 | RP-010454 | R3-011349 | approved | CN Domain Indicator in ERROR INDICATION | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 286 | | R99 | F | RP-12 | RP-010454 | R3-011350 | approved | Correction to RAB Release Procedures description | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 287 | | Rel-4 | A | RP-12 | RP-010454 | R3-011351 | approved | Correction to RAB Release Procedures description | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 288 | | R99 | F | RP-12 | RP-010454 | R3-011352 | approved | TRELOCalloc_usage | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 289 | | Rel-4 | A | RP-12 | RP-010454 | R3-011353 | approved | TRELOCalloc_usage | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 290 | | R99 | F | RP-12 | RP-010454 | R3-011354 | approved | Relocation Resource Allocation in case of Cell/URA Update | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 291 | | Rel-4 | A | RP-12 | RP-010454 | R3-011355 | approved | Relocation Resource Allocation in case of Cell/URA Update | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 293 | 1 | R99 | F | RP-12 | RP-010454 | R3-011672 | approved | Global RNC ID IE in INITIAL UE MESSAGE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 294 | 1 | Rel-4 | A | RP-12 | RP-010454 | R3-011673 | approved | Global RNC ID IE in INITIAL UE MESSAGE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 295 | 2 | R99 | F | RP-12 | RP-010454 | R3-011817 | approved | CN Domain Indicator in OVERLOAD message | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 296 | 3 | Rel-4 | A | RP-12 | RP-010454 | R3-011818 | approved | CN Domain Indicator in OVERLOAD message | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 298 | 1 | R99 | F | RP-12 | RP-010454 | R3-011733 | approved | Reference to superseeded versions of ASN.1 documents | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 299 | 1 | Rel-4 | A | RP-12 | RP-010454 | R3-011734 | approved | Reference to superseeded versions of ASN.1 documents | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 300 | | R99 | F | RP-12 | RP-010375 | R3-011554 | approved | Correction of tabular format for Message Type IE | 3.5.0 | 3.6.0 | R3 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
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| 25.413 | 301 | | Rel-4 | A | RP-12 | RP-010375 | R3-011555 | approved | Correction of tabular format for Message Type IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 303 | | Rel-4 | F | RP-12 | RP-010392 | R3-011558 | approved | Clarifications to renegotiation during relocation | 4.0.0 | 4.1.0 | R3 | QoSPS-MAPEND-RABQoS-Negot |
| 25.413 | 306 | 1 | R99 | F | RP-12 | RP-010375 | R3-011720 | approved | Aligning tabular format and ASN.1 (ENUMERATED type) | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 307 | 1 | Rel-4 | A | RP-12 | RP-010375 | R3-011721 | approved | Aligning tabular format and ASN.1 (ENUMERATED type) | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 308 | 3 | R99 | F | RP-12 | RP-010375 | R3-011811 | approved | Ranap criticality | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 309 | 3 | Rel-4 | A | RP-12 | RP-010375 | R3-011812 | approved | Ranap criticality | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 314 | 2 | R99 | F | RP-12 | RP-010375 | R3-011791 | approved | Partial Contexts transfer | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 315 | 2 | Rel-4 | A | RP-12 | RP-010375 | R3-011792 | approved | Partial Contexts transfer | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 316 | 1 | R99 | F | RP-12 | RP-010375 | R3-011718 | approved | Wide Alignment between Tabular format and ASN.1 (criticality levels) | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 317 | 1 | Rel-4 | A | RP-12 | RP-010375 | R3-011719 | approved | Wide Alignment between Tabular format and ASN.1 (criticality levels) | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 318 | 1 | R99 | F | RP-12 | RP-010375 | R3-011722 | approved | Correct term to refer to a MCC+MNC combination is PLMN identity. | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 319 | 1 | Rel-4 | A | RP-12 | RP-010375 | R3-011723 | approved | Correct term to refer to a MCC+MNC combination is PLMN identity. | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.413 | 320 | 1 | Rel-4 | F | RP-12 | RP-010392 | R3-011783 | approved | RAB odify request missing from message tabular format | 4.0.0 | 4.1.0 | R3 | QoSPS-MAPEND-RABQoS-ReNegot |
| 25.413 | 322 | | R99 | F | RP-12 | RP-010375 | R3-011819 | approved | Stop reporting clarification | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.413 | 323 | | Rel-4 | A | RP-12 | RP-010375 | R3-011820 | approved | Stop reporting clarification | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.415 | 052 | 2 | R99 | F | RP-12 | RP-010376 | R3-011356 | approved | In-sequence delivery requirement | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.415 | 061 | | Rel-4 | A | RP-12 | RP-010376 | R3-011357 | approved | In-sequence delivery requirement | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.415 | 063 | | Rel-4 | F | RP-12 | RP-010393 | R3-011549 | approved | Initial Rate Control clarification | 4.0.0 | 4.1.0 | R3 | TrFO |
| 25.415 | 064 | | Rel-4 | F | RP-12 | RP-010393 | R3-011559 | approved | TrFO clarifications and corrections | 4.0.0 | 4.1.0 | R3 | TrFO |
| 25.415 | 065 | 2 | R99 | F | RP-12 | RP-010376 | R3-011787 | approved | UP initialisation procedure | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.415 | 066 | 2 | Rel-4 | A | RP-12 | RP-010376 | R3-011788 | approved | UP initialisation procedure | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.419 | 035 | 1 | R99 | F | RP-12 | RP-010377 | R3-011860 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 036 | 1 | Rel-4 | A | RP-12 | RP-010377 | R3-011861 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.419 | 037 | | R99 | F | RP-12 | RP-010377 | R3-011325 | approved | Reporting of Logical Error with Error Indication Procedure | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 038 | | Rel-4 | A | RP-12 | RP-010377 | R3-011326 | approved | Reporting of Logical Error with Error Indication Procedure | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.419 | 039 | | R99 | F | RP-12 | RP-010377 | R3-011333 | approved | Clarification of IEs order rule | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 040 | | Rel-4 | A | RP-12 | RP-010377 | R3-011334 | approved | Clarification of IEs order rule | 4.0.0 | 4.1.0 | R3 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.419 | 041 | | R99 | F | RP-12 | RP-010377 | R3-011358 | approved | Corrections to the SABP | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 042 | | Rel-4 | A | RP-12 | RP-010377 | R3-011359 | approved | Corrections to the SABP | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.419 | 043 | 1 | Rel-4 | A | RP-12 | RP-010377 | R3-011756 | approved | Alignment of 25.419 (v4.0.0) with 23.041 | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.419 | 044 | 1 | Rel-4 | A | RP-12 | RP-010377 | R3-011758 | approved | Changing of 'Broadcast Message Content ' IE maximum size | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.419 | 045 | 1 | R99 | F | RP-12 | RP-010377 | R3-011755 | approved | Alignment of 25.419 (v3.4.0) with 23.041 | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 046 | 1 | R99 | F | RP-12 | RP-010377 | R3-011757 | approved | Changing of 'Broadcast Message Content ' IE maximum | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 047 | | R99 | F | RP-12 | RP-010377 | R3-011670 | approved | Corrections in 25.419 due to terminology of PLMN Identity as requested by SA1 | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 048 | | Rel-4 | A | RP-12 | RP-010377 | R3-011671 | approved | Corrections in 25.419 due to terminology of PLMN Identity as requested by SA1 | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.419 | 049 | | R99 | F | RP-12 | RP-010377 | R3-011735 | approved | Reference to superseded versions of ASN.1 documents | 3.4.0 | 3.5.0 | R3 | TEI |
| 25.419 | 050 | | Rel-4 | A | RP-12 | RP-010377 | R3-011736 | approved | Reference to superseded versions of ASN.1 documents | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 340 | 3 | R99 | F | RP-12 | RP-010378 | R3-011862 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 341 | 2 | Rel-4 | A | RP-12 | RP-010378 | R3-011863 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 342 | | R99 | F | RP-12 | RP-010378 | R3-011327 | approved | Reporting of Logical Error with Error Indication Procedure | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 343 | | Rel-4 | A | RP-12 | RP-010378 | R3-011328 | approved | Reporting of Logical Error with Error Indication Procedure | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 344 | | R99 | F | RP-12 | RP-010378 | R3-011335 | approved | Clarification of IEs order rule | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 345 | | Rel-4 | A | RP-12 | RP-010378 | R3-011336 | approved | Clarification of IEs order rule | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 346 | | R99 | F | RP-12 | RP-010378 | R3-011366 | approved | Modification of RL-Setup and RL-Addition procedure text | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 347 | | Rel-4 | A | RP-12 | RP-010378 | R3-011367 | approved | Modification of RL-Setup and RL-Addition procedure text | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 348 | | R99 | F | RP-12 | RP-010378 | R3-011370 | approved | Clarification on Procedure Parallelism for RL Restoration | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 349 | | Rel-4 | A | RP-12 | RP-010378 | R3-011371 | approved | Clarification on Procedure Parallelism for RL Restoration | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 350 | 2 | R99 | F | RP-12 | RP-010378 | R3-011765 | approved | Measurement reporting clarification | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 351 | 2 | Rel-4 | A | RP-12 | RP-010378 | R3-011766 | approved | Measurement reporting clarification | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 352 | | R99 | F | RP-12 | RP-010378 | R3-011378 | approved | Clarification of the CM Configuration Change CFN IE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 353 | | Rel-4 | A | RP-12 | RP-010378 | R3-011379 | approved | Clarification of the CM Configuration Change CFN IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 354 | | R99 | F | RP-12 | RP-010378 | R3-011382 | approved | Correction to the UMTS neighbouring cell handling | 3.5.0 | 3.6.0 | R3 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.423 | 355 | | Rel-4 | A | RP-12 | RP-010378 | R3-011383 | approved | Correction to the UMTS neighbouring cell handling | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 356 | | R99 | F | RP-12 | RP-010378 | R3-011384 | approved | Clarification of the Initial DL Tx Power in RL Addition | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 357 | | Rel-4 | A | RP-12 | RP-010378 | R3-011385 | approved | Clarification of the Initial DL Tx Power in RL Addition | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 358 | | R99 | F | RP-12 | RP-010378 | R3-011386 | approved | Criticality setting of Neighbouring GSM Cell Information | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 359 | | Rel-4 | A | RP-12 | RP-010378 | R3-011387 | approved | Criticality setting of Neighbouring GSM Cell Information | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 360 | | R99 | F | RP-12 | RP-010379 | R3-011388 | approved | Corrections on Dedicated Measurement Initiation Request | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 361 | | Rel-4 | A | RP-12 | RP-010379 | R3-011389 | approved | Corrections on Dedicated Measurement Initiation Request | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 362 | | R99 | F | RP-12 | RP-010379 | R3-011390 | approved | Corrections to the P-CPICH Power Handling | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 363 | | Rel-4 | A | RP-12 | RP-010379 | R3-011391 | approved | Corrections to the P-CPICH Power Handling | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 364 | | R99 | F | RP-12 | RP-010379 | R3-011392 | approved | Addition of missing IEs in RL Setup and RL Addition | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 365 | | Rel-4 | A | RP-12 | RP-010379 | R3-011393 | approved | Addition of missing IEs in RL Setup and RL Addition | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 366 | | R99 | F | RP-12 | RP-010379 | R3-011394 | approved | Cell in CTrCh Resource Initialisation | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 367 | | Rel-4 | A | RP-12 | RP-010379 | R3-011395 | approved | Cell in CTrCh Resource Initialisation | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 368 | | R99 | F | RP-12 | RP-010379 | R3-011396 | approved | Alignment of Neighbouring GSM Cell Information with RRC | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 369 | | Rel-4 | A | RP-12 | RP-010379 | R3-011397 | approved | Alignment of Neighbouring GSM Cell Information with RRC | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 372 | | Rel-4 | F | RP-12 | RP-010394 | R3-011415 | approved | Correction of Neighbouring TDD Cell Measurement Info | 4.0.0 | 4.1.0 | R3 | LCS1-UEPos-IublIur |
| 25.423 | 373 | | Rel-4 | F | RP-12 | RP-010394 | R3-011416 | approved | Removal syntax errors from Rel.4 RNSAP ASN.1 | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 374 | | Rel-4 | F | RP-12 | RP-010394 | R3-011418 | approved | Clean-up of Rate Control on DCHs | 4.0.0 | 4.1.0 | R3 | RANimp-RRMopt |
| 25.423 | 375 | 1 | Rel-4 | F | RP-12 | RP-010394 | R3-011724 | approved | Allowed combination of the measurement and event types | 4.0.0 | 4.1.0 | R3 | LCS1-UEpos-IublIur |
| 25.423 | 376 | | Rel-4 | F | RP-12 | RP-010394 | R3-011425 | approved | DSCH Power Control Improvement | 4.0.0 | 4.1.0 | R3 | RInImp-DSCHsho |
| 25.423 | 377 | 1 | R99 | F | RP-12 | RP-010379 | R3-011657 | approved | Correction of the text for ToAWE IE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 378 | 1 | Rel-4 | A | RP-12 | RP-010379 | R3-011658 | approved | Correction of the text for ToAWE IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 379 | | Rel-4 | F | RP-12 | RP-010394 | R3-011448 | approved | Correction of a wrong CR Implementation | 4.0.0 | 4.1.0 | R3 | LCS1-UEpos-IublIur |
| 25.423 | 380 | | Rel-4 | F | RP-12 | RP-010394 | R3-011449 | approved | Correction of the Information Exchange procedures | 4.0.0 | 4.1.0 | R3 | LCS1-UEpos-IublIur |
| 25.423 | 381 | 1 | R99 | F | RP-12 | RP-010379 | R3-011682 | approved | Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised | 3.5.0 | 3.6.0 | R3 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
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| | | | | | | | | | Reconfiguration | | | | |
| 25.423 | 382 | | Rel-4 | A | RP-12 | RP-010379 | R3-011499 | approved | Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 387 | 1 | R99 | F | RP-12 | RP-010379 | R3-011683 | approved | Measurement clarifications | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 388 | 1 | Rel-4 | A | RP-12 | RP-010379 | R3-011684 | approved | Measurement clarifications | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 389 | | R99 | F | RP-12 | RP-010379 | R3-011530 | approved | Clarification on DL Power reference | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 390 | | Rel-4 | A | RP-12 | RP-010379 | R3-011531 | approved | Clarification on DL Power reference | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 391 | 2 | Rel-4 | F | RP-12 | RP-010394 | R3-011779 | approved | Alignment of LCR TDD to the latest R99 modifications | 4.0.0 | 4.1.0 | R3 | LCRTDD-Iublur |
| 25.423 | 393 | 1 | Rel-4 | F | RP-12 | RP-010394 | R3-011728 | approved | Uplink power control for 1.28 Mcps TDD | 4.0.0 | 4.1.0 | R3 | LCRTDD-Iublur |
| 25.423 | 394 | 1 | R99 | F | RP-12 | RP-010379 | R3-011700 | approved | RNSAP general corrections | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 395 | 1 | Rel-4 | A | RP-12 | RP-010379 | R3-011701 | approved | RNSAP general corrections | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 398 | | R99 | F | RP-12 | RP-010380 | R3-011616 | approved | Correct term to refer to a MCC+MNC combination is PLMN identity. | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 399 | | Rel-4 | A | RP-12 | RP-010380 | R3-011619 | approved | Correct term to refer to a MCC+MNC combination is PLMN identity. | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 402 | 3 | R99 | F | RP-12 | RP-010380 | R3-011856 | approved | Cell Reserved for operator use | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 403 | 3 | Rel-4 | A | RP-12 | RP-010380 | R3-011857 | approved | Cell Reserved for operator use | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 404 | | R99 | F | RP-12 | RP-010380 | R3-011697 | approved | Correction to the critically information of DL Code Information in tabular format | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 405 | | Rel-4 | A | RP-12 | RP-010380 | R3-011698 | approved | Correction to the critically information of DL Code Information in tabular format | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 406 | | R99 | F | RP-12 | RP-010380 | R3-011706 | approved | Alignment the range of TGPRC with RRC | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 407 | | Rel-4 | A | RP-12 | RP-010380 | R3-011707 | approved | Alignment the range of TGPRC with RRC | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 408 | 1 | R99 | F | RP-12 | RP-010380 | R3-011774 | approved | Addition of S-RNTI and D-RNTI to the ERROR INDICATION message | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 409 | 1 | Rel-4 | A | RP-12 | RP-010380 | R3-011775 | approved | Addition of S-RNTI and D-RNTI to the ERROR INDICATION message | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 410 | | R99 | F | RP-12 | RP-010380 | R3-011737 | approved | Reference to superseded versions of ASN.1 documents | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 411 | | Rel-4 | A | RP-12 | RP-010380 | R3-011738 | approved | Reference to superseded versions of ASN.1 documents | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 412 | | Rel-4 | F | RP-12 | RP-010394 | R3-011751 | approved | Correct the CR implementation error in the ASN.1 | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.423 | 413 | 2 | R99 | F | RP-12 | RP-010380 | R3-011880 | approved | Alignment of Conditional Presence with RAN3 Specification Principles | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.423 | 414 | 2 | Rel-4 | A | RP-12 | RP-010380 | R3-011881 | approved | Alignment of Conditional Presence with RAN3 Specification Principles | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.427 | 047 | | Rel-4 | F | RP-12 | RP-010395 | R3-011426 | approved | Identify some parameter only used in 3.84Mcps | 4.0.0 | 4.1.0 | R3 | LCRTDD-Iublur |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
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| 25.427 | 049 | | R99 | F | RP-12 | RP-010381 | R3-011501 | approved | CRCI Inclusion in the UL Data Frames | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.427 | 050 | | Rel-4 | A | RP-12 | RP-010381 | R3-011502 | approved | CRCI Inclusion in the UL Data Frames | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.427 | 053 | 1 | R99 | F | RP-12 | RP-010381 | R3-011649 | approved | UP Synchronisation for a Radio Link | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.427 | 054 | 1 | Rel-4 | A | RP-12 | RP-010381 | R3-011650 | approved | UP Synchronisation for a Radio Link | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.430 | 018 | | R99 | F | RP-12 | RP-010382 | R3-011364 | approved | Clarification of Common Channel logical model | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.430 | 019 | | Rel-4 | A | RP-12 | RP-010382 | R3-011365 | approved | Clarification of Common Channel logical model | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.430 | 020 | | R99 | F | RP-12 | RP-010382 | R3-011483 | approved | Traffic Management in Common Channels | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.430 | 021 | | Rel-4 | A | RP-12 | RP-010382 | R3-011484 | approved | Traffic Management in Common Channels | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.430 | 022 | | R99 | F | RP-12 | RP-010382 | R3-011508 | approved | Alignment of Cell description to NBAP | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.430 | 023 | | Rel-4 | A | RP-12 | RP-010382 | R3-011509 | approved | Alignment of Cell description to NBAP | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 389 | 2 | R99 | F | RP-12 | RP-010383 | R3-011864 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 390 | 2 | Rel-4 | A | RP-12 | RP-010383 | R3-011865 | approved | Corrections and introduction of an appendix for usage of Criticality Diagnostics IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 391 | | R99 | F | RP-12 | RP-010383 | R3-011329 | approved | Reporting of Logical Error with Error Indication Procedure | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 392 | | Rel-4 | A | RP-12 | RP-010383 | R3-011330 | approved | Reporting of Logical Error with Error Indication Procedure | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 393 | | R99 | F | RP-12 | RP-010383 | R3-011337 | approved | Clarification of IEs order rule | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 394 | | Rel-4 | A | RP-12 | RP-010383 | R3-011338 | approved | Clarification of IEs order rule | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 395 | | R99 | F | RP-12 | RP-010383 | R3-011368 | approved | Modification of RL-Setup and RL-Addition procedure text | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 396 | | Rel-4 | A | RP-12 | RP-010383 | R3-011369 | approved | Modification of RL-Setup and RL-Addition procedure text | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 397 | | R99 | F | RP-12 | RP-010383 | R3-011372 | approved | Clarification on Procedure Parallelism for RL Restoration | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 398 | | Rel-4 | A | RP-12 | RP-010383 | R3-011373 | approved | Clarification on Procedure Parallelism for RL Restoration | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 399 | 2 | R99 | F | RP-12 | RP-010383 | R3-011767 | approved | Measurement reporting clarification | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 400 | 2 | Rel-4 | A | RP-12 | RP-010383 | R3-011768 | approved | Measurement reporting clarification | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 401 | | R99 | F | RP-12 | RP-010383 | R3-011380 | approved | Clarification of the CM Configuration Change CFN IE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 402 | | Rel-4 | A | RP-12 | RP-010383 | R3-011381 | approved | Clarification of the CM Configuration Change CFN IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 403 | 1 | R99 | F | RP-12 | RP-010383 | R3-011704 | approved | Clarification of DL Power Applicability | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 404 | 1 | Rel-4 | A | RP-12 | RP-010383 | R3-011705 | approved | Clarification of DL Power Applicability | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 405 | | R99 | F | RP-12 | RP-010383 | R3-011400 | approved | Ambiguity in meaning of DL power IE | 3.5.0 | 3.6.0 | R3 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.433 | 406 | | Rel-4 | A | RP-12 | RP-010383 | R3-011401 | approved | Ambiguity in meaning of DL power IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 407 | | R99 | F | RP-12 | RP-010383 | R3-011402 | approved | Clarification between ddMode and ALLNBCC measurements | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 408 | | Rel-4 | A | RP-12 | RP-010383 | R3-011403 | approved | Clarification between ddMode and ALLNBCC measurements | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 411 | | R99 | F | RP-12 | RP-010384 | R3-011408 | approved | Correction to the range of Successful RL Information in the RADIO LINK ADDITION FAILURE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 412 | | Rel-4 | A | RP-12 | RP-010384 | R3-011409 | approved | Correction to the range of Successful RL Information in the RADIO LINK ADDITION FAILURE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 413 | | Rel-4 | F | RP-12 | RP-010396 | R3-011414 | approved | Correction of Neighbouring TDD Cell Measurement Info | 4.0.0 | 4.1.0 | R3 | LCS1-UEPos-IubIur |
| 25.433 | 414 | | Rel-4 | F | RP-12 | RP-010396 | R3-011417 | approved | Removal syntax errors from Rel.4 NBAP ASN.1 | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 415 | | Rel-4 | F | RP-12 | RP-010396 | R3-011419 | approved | Correction of NBAP Cell Sync function for TDD | 4.0.0 | 4.1.0 | R3 | RANimp-Nbsync |
| 25.433 | 416 | | Rel-4 | F | RP-12 | RP-010396 | R3-011420 | approved | Frequency Acquisition for Cell Synchronisation for TDD | 4.0.0 | 4.1.0 | R3 | RANimp-Nbsync |
| 25.433 | 417 | | Rel-4 | F | RP-12 | RP-010396 | R3-011421 | approved | Modification of the abbreviation list | 4.0.0 | 4.1.0 | R3 | LCS1-UEpos-IubIur |
| 25.433 | 418 | 1 | Rel-4 | F | RP-12 | RP-010396 | R3-011725 | approved | Allowed combination of the measurement and event types | 4.0.0 | 4.1.0 | R3 | LCS1-UEpos-IubIur |
| 25.433 | 419 | | Rel-4 | F | RP-12 | RP-010396 | R3-011424 | approved | DSCH Power Control Improvement | 4.0.0 | 4.1.0 | R3 | RInImp-DSCHsho |
| 25.433 | 420 | 1 | R99 | F | RP-12 | RP-010384 | R3-011664 | approved | Clarification on the System Information Update procedure (Information Element Functional Definition) | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 421 | 1 | Rel-4 | A | RP-12 | RP-010384 | R3-011665 | approved | Clarification on the System Information Update procedure (Information Element Functional Definition) | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 422 | 1 | R99 | F | RP-12 | RP-010384 | R3-011806 | approved | Node B resources model at common transport channel reconfiguration | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 423 | 1 | Rel-4 | A | RP-12 | RP-010384 | R3-011807 | approved | Node B resources model at common transport channel reconfiguration | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 426 | 1 | R99 | F | RP-12 | RP-010384 | R3-011659 | approved | Correction of the text for ToAWE IE | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 427 | 1 | Rel-4 | A | RP-12 | RP-010384 | R3-011660 | approved | Correction of the text for ToAWE IE | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 430 | | R99 | F | RP-12 | RP-010384 | R3-011459 | approved | Corrections on Dedicated Measurement Initiation Request message | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 431 | | Rel-4 | A | RP-12 | RP-010384 | R3-011460 | approved | Corrections on Dedicated Measurement Initiation Request message | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 432 | | R99 | F | RP-12 | RP-010384 | R3-011461 | approved | Clarification to the Common Transport Channel Setup procedure | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 433 | | Rel-4 | A | RP-12 | RP-010384 | R3-011462 | approved | Clarification to the Common Transport Channel Setup procedure | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 436 | | R99 | F | RP-12 | RP-010384 | R3-011487 | approved | Misalignment between tabular Format and | 3.5.0 | 3.6.0 | R3 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | ASN.1 in NBAP | | | | |
| 25.433 | 437 | | Rel-4 | A | RP-12 | RP-010384 | R3-011488 | approved | Misalignment between tabular Format and ASN.1 in NBAP | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 438 | 1 | R99 | F | RP-12 | RP-010384 | R3-011710 | approved | Initial DL Power After addition of CCTrCH in Synchronised Reconfiguration | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 439 | 1 | Rel-4 | A | RP-12 | RP-010384 | R3-011711 | approved | Initial DL Power After addition of CCTrCH in Synchronised Reconfiguration | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 440 | 1 | R99 | F | RP-12 | RP-010384 | R3-011681 | approved | Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 441 | | Rel-4 | A | RP-12 | RP-010384 | R3-011498 | approved | Correction of TDD DL TPC Step Size After addition of CCTrCH in Synchronised Reconfiguration | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 442 | | R99 | F | RP-12 | RP-010384 | R3-011503 | approved | Order of elements in Bitstrings | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 443 | | Rel-4 | A | RP-12 | RP-010384 | R3-011504 | approved | Order of elements in Bitstrings | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 445 | | R99 | F | RP-12 | RP-010385 | R3-011514 | approved | Alignmrnt to the WG1 definmition of DL power averaging window size. | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 448 | 1 | R99 | F | RP-12 | RP-010385 | R3-011685 | approved | Measurement clarifications | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 449 | 1 | Rel-4 | A | RP-12 | RP-010385 | R3-011686 | approved | Measurement clarifications | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 450 | 2 | Rel-4 | F | RP-12 | RP-010396 | R3-011778 | approved | Alignment of LCR TDD to the latest R99 modifications | 4.0.0 | 4.1.0 | R3 | LCRTDD-IublIur |
| 25.433 | 451 | 1 | Rel-4 | F | RP-12 | RP-010396 | R3-011726 | approved | Corrections to TDD 1.28 Mcps RACH parameters | 4.0.0 | 4.1.0 | R3 | LCRTDD-IublIur |
| 25.433 | 452 | 2 | Rel-4 | F | RP-12 | RP-010396 | R3-011782 | approved | Uplink power control for 1.28 Mcps TDD | 4.0.0 | 4.1.0 | R3 | LCRTDD-IublIur |
| 25.433 | 453 | 2 | Rel-4 | F | RP-12 | RP-010396 | R3-011810 | approved | Introduction of Dedicated Measurements on PUSCH | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 454 | 1 | Rel-4 | F | RP-12 | RP-010396 | R3-011760 | approved | Removal of the timeslot in the Cell Setup Request TDD message for LCR TDD | 4.0.0 | 4.1.0 | R3 | LCRTDD-IublIur |
| 25.433 | 455 | 1 | R99 | F | RP-12 | RP-010396 | R3-011712 | approved | IB Type correction | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 456 | 1 | Rel-4 | A | RP-12 | RP-010385 | R3-011713 | approved | IB Type correction | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 461 | | R99 | F | RP-12 | RP-010385 | R3-011708 | approved | Alignment the range of TGPRC with RRC | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 462 | | Rel-4 | A | RP-12 | RP-010385 | R3-011709 | approved | Alignment the range of TGPRC with RRC | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 463 | 1 | R99 | F | RP-12 | RP-010385 | R3-011776 | approved | Correction to the Error Indication Procedure | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 464 | 1 | Rel-4 | A | RP-12 | RP-010385 | R3-011777 | approved | Correction to the Error Indication Procedure | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 465 | 1 | Rel-4 | F | RP-12 | RP-010385 | R3-011808 | approved | Addition of “ReportCharacteristicsType-OnModification” to 9.3.4 | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.433 | 466 | 2 | R99 | F | RP-12 | RP-010385 | R3-011882 | approved | Alignment of Conditional Presence with RAN3 Specification Principles | 3.5.0 | 3.6.0 | R3 | TEI |
| 25.433 | 467 | 3 | Rel-4 | A | RP-12 | RP-010385 | R3-011883 | approved | Alignment of Conditional Presence with RAN3 Specification Principles | 4.0.0 | 4.1.0 | R3 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.434 | 010 | | Rel-4 | F | RP-12 | RP-010397 | R3-011343 | approved | Correction of reference number to Q.2630.1 to Q.2630.2 | 4.0.0 | 4.1.0 | R3 | ETRAN-QoSAAL2 |
| 25.435 | 040 | | R99 | F | RP-12 | RP-010386 | R3-011410 | approved | Clarification of Timing Deviation for RACH/USCH | 3.6.0 | 3.7.0 | R3 | TEI |
| 25.435 | 041 | | Rel-4 | A | RP-12 | RP-010386 | R3-011411 | approved | Clarification of Timing Deviation for RACH/USCH | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.435 | 042 | | Rel-4 | F | RP-12 | RP-010398 | R3-011427 | approved | Identify some parameter only used in 3.84Mcps TDD | 4.0.0 | 4.1.0 | R3 | LCRTDD-IubIur |
| 25.850 | 001 | | Rel-4 | F | RP-12 | RP-010399 | R3-011428 | approved | TDD related clarifications for UE Positioning | 4.0.0 | 4.1.0 | R3 | LCS1-UEPos-IubIur |
| 25.921 | 014 | | R99 | F | RP-12 | RP-010318 | R2-011072 | approved | Clean up | 3.3.0 | 3.4.0 | R2 | TEI |
| 25.921 | 015 | | Rel-4 | A | RP-12 | RP-010318 | R2-011331 | approved | Clean up | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.921 | 016 | | R99 | F | RP-12 | RP-010318 | R2-011149 | approved | Usage of spare values in future releases | 3.3.0 | 3.4.0 | R2 | TEI |
| 25.921 | 017 | | Rel-4 | A | RP-12 | RP-010318 | R2-011329 | approved | Usage of spare values in future releases | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.921 | 018 | 1 | R99 | F | RP-12 | RP-010318 | R2-011457 | approved | Structure and naming of extensions in ASN.1 | 3.3.0 | 3.4.0 | R2 | TEI |
| 25.921 | 019 | | Rel-4 | A | RP-12 | RP-010318 | R2-011458 | approved | Structure and naming of extensions in ASN.1 | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.921 | 020 | | R99 | F | RP-12 | RP-010318 | R2-011485 | approved | Addition of Recommendations for Extensions in RANAP, RNSAP, NBAP, and SABP | 3.3.0 | 3.4.0 | R2 | TEI |
| 25.921 | 021 | | Rel-4 | A | RP-12 | RP-010318 | R2-011486 | approved | Addition of Recommendations for Extensions in RANAP, RNSAP, NBAP, and SABP | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.921 | 022 | | R99 | F | RP-12 | RP-010318 | R2-011487 | approved | Clean-up with regard to RAN WG3 Practise of Specifying Control Plane Protocols | 3.3.0 | 3.4.0 | R2 | TEI |
| 25.921 | 023 | | Rel-4 | A | RP-12 | RP-010318 | R2-011488 | approved | Clean-up with regard to RAN WG3 Practise of Specifying Control Plane Protocols | 4.0.0 | 4.1.0 | R2 | TEI |
| 25.931 | 009 | | R99 | F | RP-12 | RP-010387 | R3-011360 | approved | Correction to RAB Release Procedures | 3.3.0 | 3.4.0 | R3 | TEI |
| 25.931 | 010 | | Rel-4 | A | RP-12 | RP-010387 | R3-011361 | approved | Correction to RAB Release Procedures | 4.0.0 | 4.1.0 | R3 | TEI |
| 25.942 | 1 | | R99 | F | RP-12 | RP-010357 | R4-010635 | approved | Clarification to TDD pico - FDD macro interference simulation results | 3.0.0 | 3.1.0 | R4 | TEI |
| 25.944 | 007 | - | R99 | F | RP-12 | RP-010340 | R1-01-0473 | approved | Correction of TTI for PCH | 3.4.1 | 3.5.0 | R1 | TEI |
| 25.944 | 008 | - | Rel-4 | A | RP-12 | RP-010340 | R1-01-0492 | approved | Correction of TTI for PCH (3.84 Mcps TDD, Rel-4) | 4.0.1 | 4.1.0 | R1 | TEI |
| 25.944 | 009 | - | Rel-4 | A | RP-12 | RP-010340 | R1-01-0493 | approved | Correction of TTI for PCH | 4.0.1 | 4.1.0 | R1 | U-LCRTDD |
| 34.109 | 007 | | R99 | F | RP-12 | RP-010319 | R2-011104 | approved | Clarification to Loopback Delay requirement & BTFD in TDD mode | 3.3.0 | 3.4.0 | R2 | TEI |
| 34.109 | 008 | | Rel-4 | A | RP-12 | RP-010319 | R2-011414 | approved | Clarification to Loopback Delay requirement & BTFD in TDD mode | 4.0.0 | 4.1.0 | R2 | TEI |
| 34.109 | 009 | | R99 | F | RP-12 | RP-010319 | R2-011208 | revised | Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers | 3.3.0 | | R2 | TEI |
| 34.109 | 009 | 1 | R99 | F | RP-12 | RP-010481 | | approved | Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers | 3.3.0 | 3.4.0 | R2 | TEI |
| 34.109 | 010 | | Rel-4 | A | RP-12 | RP-010319 | R2-011209 | revised | Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers | 4.0.0 | | R2 | TEI |

| Spec | CR | Rev | Phase | Cat | Meeting | Plenary doc | WG doc | TSG status | Subject | CR to version | Resulting version | WG | Workitem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 34.109 | 010 | 1 | Rel-4 | A | RP-12 | RP-010481 | | approved | Expanding UE test loop buffering capabilities to enable testing of 2048 kbps radio bearers | 4.0.0 | 4.1.0 | R2 | TEI |

# Annex D: Isolated Impact ("backwards compatibility")

TSG-RAN Meeting #12 *RP-010494*
Stockholm, Sweden, 12 - 15 June 2001

*Title: Isolated Impact CRs*

*Source: Motorola, Nortel*

*Agenda item: 8*

*Document for: Discussion and decision*

## Introduction

RAN #12 discussed the term backwards compatible when used to describe CRs that correct faults in a specification in a manner that does not affect other currently correctly working functions. It was agreed that this term does not correctly describe the current understanding.

A new term, “Isolated Impact”, and its definition, is proposed in this document. This is the same definition as RAN WG2 has already accepted, but modified to use the new terminology.

# Definition of an Isolated Impact change

A Change implemented in version N of a 3GPP release has “Isolated Impact” when the following conditions are all met:

- Any functionality that was working in versions prior to version N still works with a UE that implements version N and a network implementing version N-1
- Any functionality that was working in versions prior to version N still works with a network that implements version N and a UE implementing version N-1
- Any functionality that was working in versions prior to version N still works with a UE that implements version N and a network implementing version N

Only consideration of interworking with version N-1 is required. This should permit interworking with any prior versions of the specifications in which the functionality was working, although exceptions may exist.

An “Isolated Impact” change needs to be implemented by networks and UEs if they support the corrected functionality so that the standard (and the functionality that it intends to correct) works.

**Possible actions when a functionality is found erroneous in release 99**

- Make an “Isolated Impact” change that corrects or deletes the function
- Make a non “Isolated Impact” change that corrects the function
- State that the erroneous function is not supported in release 99, and make the correction in the next release

**Action when a functionality is found ambiguous in release 99, or some text needed to clarify a common understanding**

- Provide necessary clarifications
- State
- « Correction to a function where the specification was :
  - ambiguous or not sufficiently explicit.
- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

**Action when there are conflicting descriptions of a functionality in release 99**

- Resolve conflict
- State
- « Correction to a function where the specification was :
  - Containing some contradictions.
- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

**Action when procedural text or rules missing for a functionality in release 99**

- Add new description text
- State
- « Correction to a function where the specification was :
  - Procedural text or rules were missing.
- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Note: a combination of the 3 cases above may be used depending on the CR.

# Impact analysis

An impact analysis should provide the following:

- Define clearly the functionality which does not work
- Describe the correction which is being brought
- When the change is not “Isolated Impact”, state the consequence in the following cases:
  - Network implements the change, but not the UE
  - UE implements the change, but not the network

# Annex E: Summary of Action Points

NOTE: This Summary only contains specific action points, not general ones or "encouragements".

## TSG-RAN WG1

- To review the simulations to be performed on USTS during the WG1 Ad Hoc meeting and consider any resulting actions during the regular WG1 meeting (discussion on **RP-010427**).
- To complete pending work on the SI "Feasibility Study for Improved Common DL Channel for Cell-FACH Stage" and to provide an answer to WG2.

## TSG-RAN WG2

- To review the response from TSG-SA WG1 to LS **RP-010285 (R2-011481)** and discuss with WG4 what distribution of work is necessary, if any.
- To consider (with WG3) the addition of other positioning methods from an architectural point of view (discussion on **RP-010400**).

## TSG-RAN WG3

- To handle LS **RP-010288 (N4-010696)** as urgently as possible and to provide the CRs for the TSG-RAN #13 meeting based on the Rel-4 version of the specifications.
- To add a statement to the Iub specification indicating that the maximum DL power was defined for non-compressed mode and that in compressed mode the DL power would be increased by $P_{SIR}$ and to elaborate a CR (discussion on CR 185 and CR 186 in **RP-010334**).
- To make sure that the WI "Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning" is finalised by TSG-RAN #13 (discussion on **RP-010455** WG3 Status Report).
- To add to the WG3 TR on IP Transport the following statement: "Because of transition period it is felt preferable that dual stack support is the best way to evolve. This does not prevent single stack support (IPv4 or IPv6). The decision is then left for operators taking into account the potential interworking or performance consequences." (see discussion on **RP-010416**).
- To consider (with WG2) the addition of other positioning methods from an architectural point of view and to discuss in which specification to cover such methods (discussion on **RP-010400**).
- To review the WI sheet for WI "Iur Neighbouring cell reporting Efficiency Optimisation" for TSG-RAN #13 (see **RP-010474**).

## TSG-RAN WG4

- To review the response from TSG-SA WG1 to LS **RP-010285 (R2-011481)** and discuss with WG2 what distribution of work is necessary, if any.
- To rediscuss the power class issue of LS **RP-010453 (R4-010723)** and to inform WG3 of any possible impacts after the issue in has been rediscussed in WG4.
- To discuss receiver sensitivity and channel raster (UMTS 1800/1900) and keep WG2 and other impacted WGs informed of the conclusions (discussion on CR 101 and CR 102 in **RP-010347**).

# TSG-RAN Chairman

- To discuss with the TSG-SA WG1 Chairman to ensure a timely response to LS **RP-010285 (R2-011481)** in order to allow WG2 and WG4 to review the response.
- To discuss with the TSG-T WG1 Chairman what should and should not be tested based on LS **RP-010285 (R2-011481)**.
- To investigate with TSG-SA whether a revision of the CR cover sheet can be made, taking into account Isolated Impact **(RP-010494)**.
- To forward **RP-010424** to PCG.
- To discuss in TSG-SA the WI "Vendor specific extensions in NBAP, RNSAP, RANAP and SABP messages" (**RP-010475**).

# TSG-RAN WG Chairmen/MCC support

- To inform the WG for which they are responsible about the Isolated Impact decisions **(RP-010494)**.

# Other

## Martin Israelsson

- To check with TSG-SA WG3 on the status of the missing LS on IP security (discussion on **RP-010455** WG3 Status Report).

## Antti Toskala

- To report what needed to be done on WI "UE Specific beamforming with dedicated pilots" in the different WGs (this implied that the WGs would need to do the necessary investigation) and what could be done with current R'99 UEs, preferably in one WG meeting cycle and to circulate the result on the TSG-RAN reflector for information and approval of the new WI sheet.

# Annex F: Meeting schedule

NOTE: Updates to meeting dates, hosts and/or venues are indicated in red and underlined.

## TSG-RAN

| Meeting | Date | Host | Location |
|---|---|---|---|
| RAN#13 | 18 - 21 September 2001 | Lucent Technologies | Beijing, China |
| 3G 2$_{HSDPA}$ | 13 - 14 November 2001 | 3GPP2 | New York, NY/NJ, USA |
| RAN#14 | 11 - 14 December 2001 | ARIB, TTC | Kyoto, Japan |
| RAN#15 | 05 - 08 March 2002 | TTA | tbd, Korea |
| RAN#16 | 04 - 07 June 2002 | Motorola | Marco Island, FL, USA |
| RAN#17 | 03 - 06 September 2002 | Alcatel | tbd, France |
| RAN#18 | 03 - 06 December 2002 | North American Friends of 3GPP | tbd, USA |
| RAN#19 | ?? - ?? March 2003 | UK Friends of 3GPP | tbd, UK |
| RAN#20 | ?? - ?? June 2003 | Nokia | tbd, Finland |

## TSG-RAN WG1

| Meeting | Date | Host | Location |
|---|---|---|---|
| #22 | 23 - 26 October 2001 | North American Friends of 3GPP | New York, NY, USA |
| #23 | 19 - 23 November 2001 | Samsung | tbd, Korea |
| #24 | 08 - 11 January 2002 | | |
| #25 | 12 - 15 February 2002 | | tbd, USA |
| #26 | 09 - 12 April 2002 | | |
| #27 | 14 - 17 May 2002 | TTA companies | tbd, Korea |
| #28 | 25 - 28 June 2002 | | |
| #29 | 20 - 23 August 2002 | | |
| #30 | 24 - 27 September 2002 | | |
| #31 | 12 - 15 November 2002 | | |

## TSG-RAN WG2

| Meeting | Date | Host | Location |
|---|---|---|---|
| #24 | 22 - 26 October 2001 | GBT | New York, NY, USA |
| #25 | 26 - 30 November 2001 | Fujitsu, NEC | Makuhari, Japan |
| #26 | 07 - 11 January 2002 | ETSI | Sophia Antipolis, France |
| #27 | 18 - 22 February 2002 | Motorola | tbd, USA |
| #28 | 08 - 12 April 2002 | J-Phone | tbd, Japan |
| #29 | 13 - 17 May 2002 | TTA companies | tbd, Korea |
| #30 | 24 - 28 June 2002 | Omnitel | tbd, Italy |
| #31 | 19 - 23 August 2002 | | Europe (tbc) |
| #32 | 23 - 27 September 2002 | CATT | tbd, China |
| #33 | 11 - 15 November 2002 | | Europe (tbc) |

## TSG-RAN WG3

| Meeting | Date | Host | Location |
|---|---|---|---|
| #24 | 22 - 26 October 2001 | North American Friends of 3GPP | New York, NY, USA |
| #25 | 26 - 30 November 2001 | Fujitsu, NEC | Makuhari, Japan |
| #26 | 07 - 11 January 2002 | | Europe (tbc) |
| #27 | 18 - 22 February 2002 | Motorola (tbc) | tbd, USA (tbc) |
| #28 | 08 - 12 April 2002 | J-Phone (tbc) | tbd, Japan (tbc) |
| #29 | 13 - 17 May 2002 | TTA companies | tbd, Korea |
| #30 | 24 - 28 June 2002 | Omnitel (tbc) | tbd, Italy (tbc) |
| #31 | 19 - 23 August 2002 | | Europe (tbc) |
| #32 | 23 - 27 September 2002 | CATT (tbc) | tbd, China (tbc) |
| #33 | 11 - 15 November 2002 | | Europe (tbc) |

## TSG-RAN WG4

| Meeting | Date | Host | Location |
|---|---|---|---|
| #20 | 12 - 16 November 2001 | North American Friends of 3GPP | New York, USA |
| #21 | 28 January - 01 February 2002 | ETSI | Sophia Antipolis, France |
| #22 | 13 - 17 May 2002 | Samsung | tbd, Korea |
| #23 | 12 - 16 August 2002 | | |
| #24 | 11 - 15 November 2002 | | |