

TSG-RAN meeting #18
New Orleans, US, 3rd - 6th December 2002

RP-020676

Title: Revised Draft Report of the 17th 3GPP TSG RAN meeting
(Biarritz, France 3rd -6th September, 2002)

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Executive Report

TSG RAN meeting #17 took place in Biarritz (France) The meeting started at 9:00 on Tuesday 3rd September 2002 and finished at 13:00 on Friday 6th September 2002. 97 participants were registered and 219 documents were presented.

The approved Change Requests (CRs) are summarized in the following table:

Release	WG1	WG2	WG3	WG4	Total
Release 99	11	63	11	10	95
Rel-4 CRs (Rel-4 excluding Cat A)	23 (12)	72 (10)	38 (27)	33 (23)	166 (72)
Rel-5 CRs (Rel-5 excluding Cat A)	52 (29)	86 (15)	72 (33)	69 (36)	279 (114)
Total CRs (Total excluding Cat A)	86 (52)	221 (88)	121 (72)	112 (69)	540 (281)

Release 99, Release 4 & Release 5

The main Rel99 issue was on the Early UE handling (sec. 8.0). After the email exchanges before, and the discussions during the meeting, it was agreed to continue the work in the form of a Study Item (RP-020666) that would examine the impacts and benefits of the following candidates:

- Hooks included into some early RRC messages
- Extension mechanism to the RRC messages allowing rel-99 corrections, when rel-4 changes needs to be backwards compatible.
- IMEI-SV solution to the CN, with an indication to the RAN

For the hook all that is needed at this stage in RAN is an extension container that may or may not be used. The actual content of the hooks can be decided at a later stage. WG2 is tasked to produce the CRs for the inclusion of the extension container in ASN.1

Backwards compatibility should be ensured for Rel-4 changes, except for the RRC specification (RP-020642)

It was agreed that CRs for clarification will be introduced from Release 4 onwards (sec. 7).

A new Release independent TR will be created to contain examples of RABs supported by UTRAN, in order to separate the list of RABs used for testing (TR34.108) from RABs to be used for commercial agreements and interoperability. (RP-020660, RP-020661)

The Rel-5 Work Item "UTRAN sharing in connected mode" was finalised (sec. 8.2.4).

The Rel-5 Work Item "HSDPA-RF" is on progress and will be finalised by December 2002 (sec. 8.4).

Release 6 and beyond

All Work Items and Study Items were reviewed, some completion dates were modified. See summary table in Annex F.

It was decided to close the WI " Improved usage of downlink resource in FDD for CCTrCHs of dedicated type" due to the lack of progress (sec. 8.1.3).

The feasibility study on "UE antenna efficiency test methods" was closed; WG4 will track the progress of COST and CTIA but the structure of a SI was considered unnecessary (sec. 8.7.7).

The feasibility study on "SRNS Relocation Procedure enhancement" was finished, no agreement was reached on the creation of a Work Item (sec. 8.7.4)

The following new Study Items were approved (sec. 8.8):

- FS on the Evolution of UTRAN Architecture (RP-020670)
- FS for the Early Mobile Handling in UTRAN (RP-020666)
- FS on Uplink Enhancements for Dedicated Transport Channels (RP-020658)
- FS on Analysis of higher chip rates for UTRA TDD evolution (RP-020673)

1 Opening of the meeting

Francois Courau (Chairman) opened the meeting at 9:00 on Tuesday. He explained the meeting arrangements and gave a few hints about Biarritz and the surroundings.

2 Approval of the agenda

RP-020455 Proposed agenda meeting #17 (Chairman)

Agenda item 8.1.6 was deleted, "Improvements of RRM across RNS and RNS/BSS is now a Work Item under the RAN Improvement feature and not a Study Item anymore. With this modification, the agenda was agreed.

Decision: The agenda is approved

3 Approval of the meeting report of TSG RAN #16

RP-020456 Draft Report of the 16th TSG-RAN meeting (Marco Island, FL, USA, 4-7 June 2002) (Secretary)

RP-020457 Revised draft Report of the 16th TSG-RAN meeting (Marco Island, FL, USA, 4-7 June 2002) (Secretary)

The revised meeting report of TSG-RAN #16 in RP-020457 had been distributed via the email reflector and was on the server.

Decision: The report was approved. The approved report would be available in RP-020458.

RP-020458 Approved Report of the 16th TSG-RAN meeting (Marco Island, FL, USA, 4-7 June 2002) (Secretary)

This was the approved report of the TSG-RAN #16 meeting.

4 Reminder of IPR declaration

The chairman reminded the delegates of their obligations with respect to IPRs.

The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective Organizational Partners of Essential IPRs they become aware of.**

The members take note that they are hereby invited:

- to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
- to notify the Chairman, or the Director-General of their **respective** Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms.

5 Chairman Report of TSG SA #16

The chairman had sent the report as an email to the TSG RAN list. No comments were received.

6 Liaisons from other groups

RP-020460 Draft Report of the 3GPP/3GPP2 Harmonisation meeting on Radio Access issues (Korpilampi, Finland, June 25th 2002) (Secretary)

The chairman made a brief summary of the meeting in Korpilampi. There is a joint 3GPP/3GPP2 Spatial Channel Modelling Ad Hoc group, attended by delegates from 3GPP TSG RAN WG1 and 3GPP2 TSG-C WG3. This Ad Hoc group has met twice and several conference calls have been held. Its scope is *"to develop and specify parameters and methods associated with the spatial channel modeling that are common to the needs of the 3GPP and 3GPP2"*. More specifically, the Ad Hoc is developing specifications for system level evaluation. So far, the link level assumptions have been agreed and the system level model is still under discussion.

Additional information on the work if this Ad Hoc can be found in the MIMO Work Item report in RP-020594. The Ad Hoc is drafting a conclusion report that will be approved by 3GPP and 3GPP2. This is not available for the time being, but Lucent will provide it during next week and will be approved via email.

Decision: The report was approved.

6.1 Groups outside 3GPP

RP-020464 LS on the evaluation of the W-CDMA UTRA FDD as a satellite radio interface (ETSI/SES53(02)87r1, to TSG RAN) (ETSI TC SES)

ETSI SES informs that it would like to use the UTRA technology and will ask for guidance in the future. ETSI SES has done a preliminary viability study and is now working on a full technical report that will be provided to TSG RAN for evaluation. WG1 and WG4 are tasked to review the Report when it is available. The chairman clarified that the task of WG4 will be to look at the interference and the coexistence aspects.

Evelyne Le Strat (Nortel) questioned if it is the intention of ETSI SES that the Report will be presented to ITU and used as a recommendation. The procedure seems unclear, is it going to be evaluated by TSG RAN before it is provided to ITU? The chairman answered that he will clarify that issue together with the chairman of ETSI SES and will report by email onto the RAN exploder.

Eisuke Fukuda (vice-chairman) noted that the evaluation of different technologies is probably out of scope of 3GPP and should better be considered in ITU. The chairman clarified that the interest in 3GPP is to ensure that the new technology doesn't affect terrestrial UTRA. The chairman will contact ETSI SES chairman to transmit him the views of TSG RAN.

Decision: The LS was noted

RP-020497 Letter from T1P1 on submission of 3GPP specifications for revision 3 of ITU R M 1457 (T1P1/2002-091) (T1P1)

The ITU ad hoc has a contribution on this issue. See section 7.5.

Decision: The LS is noted

6.2 TSG SA, TSG T, TSG CN, TSG GERAN

RP-020463 LS on Allowed AMR-WB Configurations (S4-020481, to TSG RAN) (TSG SA WG4)

SA WG4 proposes to delete one of the allowed AMR WB codec configurations, configuration D. RAN WG3 is tasked to study the issue, RAN WG2 will have to look at any possible impact on the RABs. Because this is also subject to discussion and approval during the 3GPP TSG SA, the chairman will include the result of the discussion and approval process in its SA report to the RAN by email on the exploder.

Decision: The LS is noted

RP-020633 Response to Liaison Statement on Iur-g (GP-022810 to TSG RAN, RAN2 & RAN3, Response to:R3-022152) (TSG GERAN)

See section 7.3

6.3 TSG RAN WGs

RP-020461 LS to ETSI ERM/RM on draft ECC Recommendations related to OOB, spurious and unwanted emissions (R4-021300, response to ETSI/ERM-RM21(02)MZ_37r1 (RP-020277), cc TSG RAN) (TSG RAN WG4)

Decision: The LS is noted

RP-020462 LS on the scope of the study item Viable deployment of UTRA in additional and diverse spectrum arrangements (R4-021380 to TSG RAN) (TSG RAN WG4)

See section 7.4

RP-020515 LS on Additional RAB configurations in 34.108 (R2-022422 to TSG RAN) (TSG RAN WG2)

RP-020532 LS on Additional RAB configurations in 34.108 (R1-02-1126 to TSG RAN) (TSG-RAN WG1)

See section 7.2

RP-020531 Response to Liaison Statement on Iur-g (R3-022152 to GERAN WG2, cc TSG RAN) (TSG-RAN WG3)

See section 7.3

Summary of incoming LS:

Tdoc	Title	Source	Source File	Conclusion
RP-020464	Evaluation of the W-CDMA UTRA FDD as a satellite radio interface	ETSI SES	ETSI/SES53(02)87r1	TSG RAN chairman will contact ETSI SES chairman
RP-020497	Letter from T1P1 on submission of 3GPP specifications for revision 3 of ITU R M 1457	T1P1	T1P1/2002-091	Noted
RP-020463	Allowed AMR-WB Configurations	TSG SA WG4	S4-020481	WG2 and WG3 will study the impact
RP-020633	Response to Liaison Statement on lur-g	TSG GERAN	GP-022810	The CRs according to the LSs are approved. See section 7.3
RP-020531	Response to Liaison Statement on lur-g	TSG RAN WG3	R3-022152	
RP-020461	LS to ETSI ERM/RM on draft ECC Recommendations related to OOB, spurious and unwanted emissions	TSG RAN WG4	R4-021300	Noted
RP-020462	LS on the scope of the study item Viable deployment of UTRA in additional and diverse spectrum arrangements	TSG RAN WG4	R4-021380	Response LS in RP-020668 9
RP-020515	LS on Additional RAB configurations in 34.108	TSG RAN WG2	R2-02242	LS to TSG T approved in RP-020664, see section 7.2.2
RP-020532	LS on Additional RAB configurations in 34.108	TSG RAN WG1	R1-02-1126	

7 Status Report and Approval of contributions on Release 99, Release 4 and finished Work Items in Release 5

CRs are presented in a manner different from the previous RAN meetings. CRs to different specifications, but related to the same issue or correction, are bundled together and presented in the same RAN document and approved together. This is in line with the other TSGs. This procedure applies both if the specifications are under the responsibility of only one WG or more than one. For this reason, some CRs agreed in a given WG are now approved in TSG RAN under the agenda item of a different WG.

RP-020642 Rel-4 Protocols backwards compatibility (Nokia)

Antti Toskala (Nokia) presented this proposal

The isolated impact has to be studied now in Release-4, but also the impact of a Rel99 CR in Rel-4. There were some concerns about the difficulties of putting this into order in WG3. WG3 is tasked to report to RAN the problems it may encounter in the implementation.

Decision: The document is endorsed. All WG will have to ensure the backwards compatibility for Rel-4 corrections (RRC Specification in WG2 is exempted), and also to ensure the "forward" compatibility of Rel99 corrections with the Rel-4..

Document RP-020642 triggered the debate on which Release should be used for the clarification CRs. There is misalignment among the WGs, WG4 is including these CRs in Release 5, but other groups do it in Rel-4. Reasons were argued on both senses; Nortel supported including the corrections in the earliest Release possible, and this seems to be the approach in WG2. Motorola argued that Rel-4 should be considered as closed as Rel99, and clarifications should be included in the Release that is currently opened. Denis Fauconnier (Nortel) commented that clarifications are not accepted at all in WG2, they are simply noted in the report, but when an ambiguity is detected the appropriate CR is presented.

Decision: Finally, and for the sake of consistency, it was agreed to include the clarification CRs in Release 4 and Release 5.

7.1 TSG RAN WG1

7.1.1 Report from WG1 including report on actions required from the previous meeting

RP-020566 Report from WG1 chairman to TSG-RAN (TSG-RAN WG1 Chairman)

Antti Toskala (Nokia), chairman of RAN WG1, presented this report.

WG1 had two full WG1 meeting since last TSG RAN#16 and a joint Ad Hoc on MIMO channel modelling with 3GPP2 08/02. The following CRs have been agreed:

- Release-99 CRs 6 for FDD, 5 for TDD
- Release 4 CRs total is 5 FDD, 7 TDD CRs
- Release 5 CRs
- HSDPA Related: 13 for FDD, 4 for TDD
- Others 6 CRs

WG1 had the highest number of papers for High Speed Downlink Packet Access (HSDPA) as well as the meeting time, and not too much time dedicated to Release 6.

Hashem Madadi (Hutchinson) asked for clarification on the decision in RAN WG1 about 16QAM mobiles. Antti Toskala clarified that the QPSK-only categories were kept for Rel5, since it is assumed that RAKE receivers will be used. Advanced receivers are proposed for Rel6, but the evaluation of their performances has to be done in WG4, these QPSK-only categories will then be removed.

Edgar Fernandes (Motorola) noted that WG4 has just seen one paper on advanced receivers and in any case, there is no Work Item for it. It seems difficult to consider advanced receivers will be studied in WG4 for Rel6.

It was pointed out that it doesn't make sense to discuss now what gets included into Rel6. If WG4 can provide requirements for advanced receivers within Rel6 timeframe, they will be included.

It was concluded that the CRs that were approved are valid for Release 5 only and the Release 6 will not have the QPSK only categories. The issue will be completely revisited for Release 6 based on the related discussions e.g. in TSG RAN WG4.

Hashem Madadi (Hutchinson) asked for more implication of WG1 in MBMS work. Antti reminded that in general the group didn't have much time for Rel6. WG1 has noted there may be some substantial changes to the physical layer, and guidance from WG2 is required before the group can advance further.

Concerning the OFDM study, WG1 chairman clarified that the first stage looks at a 5MHz downlink only and then depending on the results additional work will be done.

RP-020567 Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN (TSG-RAN WG1 Chairman)

Decision: The document is noted

7.1.2 Discussions on decisions from WG1

7.1.3 Approval of CRs to Release 99 with linked CRs to Release 4 and Release 5

Tdoc	Title	Decision
RP-020568	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.212	Approved
RP-020569	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.221	Approved
RP-020570	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.222	Approved
RP-020571	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.211 and TS 25.214 on "Reversal of unwanted corrections resulting from CR 25.211-122 & CR 25.214-226"	Approved
RP-020572	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.221 and TS 25.224 on "Corrections to transmit diversity mode for TDD beacon-function physical channels"	Approved

7.1.4 Approval of independent CRs to Release 4 with linked CRs to Release 5

Tdoc	Title	Decision
RP-020573	CRs (Rel-4 and Rel-5 Category A) to TS 25.212	Approved
RP-020574	CRs (Rel-4 and Rel-5 Category A) to TS 25.214	Approved
RP-020575	CRs (Rel-4 and Rel-5 Category A) to TS 25.215	Approved
RP-020576	CRs (Rel-4 and Rel-5 Category A) to TS 25.221	Approved
RP-020577	CRs (Rel-4 and Rel-5 Category A) to TS 25.224	Approved
RP-020578	CRs (Rel-4 and Rel-5 Category A) to TS 25.225	Approved
RP-020579	CRs (Rel-4 and Rel-5 Category A) to TS 25.221 and TS 25.224 on "Corrections to transmit diversity mode for TDD beacon-function physical channels"	Approved

7.1.5 Approval of independent CRs to Release 5

Tdoc	Title	Decision
RP-020580	CRs (Rel-5) to TS 25.201	Approved
RP-020581	CRs (Rel-5) to TS 25.211	Approved
RP-020582	CRs (Rel-5) to TS 25.212	Approved 1)
RP-020583	CRs (Rel-5) to TS 25.213	Approved
RP-020584	CRs (Rel-5) to TS 25.214	Approved
RP-020585	CRs (Rel-5) to TS 25.222	Approved
RP-020586	CRs (Rel-5) to TS 25.224	Approved
RP-020587	CRs (Rel-5) to TS 25.211 and TS 25.214 on "Inclusion of closed loop transmit diversity for HSDPA"	Approved
RP-020588	CRs (Rel-5) to TS 25.211 and TS 25.214 on "HS-DPCCH timing correction"	Approved

1) Per Beming (Ericsson) noted that CR158 to 25.212 in RP-020582 requires a small clarification in the text, a new CR, which has been agreed on WG1 reflector, will be presented to this meeting by Siemens. CR158 is not approved, the rest of the CRs in RP-020582 are approved.

RP-020645 CR 158 Rev 1 on 25.212 Specification of H-RNTI to UE identify mapping (Siemens)

Decision: The CR is approved

7.1.6 Approval of linked CRs where the leading one originated from WG1

Tdoc	Title	Decision
RP-020589	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.214, TS 25.423 and TS 25.433 on "Correction of maximum power adjustment in case of compressed mode"	Approved
RP-020590	CRs (Rel-5) to TS 25.214 and TS 25.331 on "TX diversity on radio links in the active set"	Approved

RP-020591	CRs (Rel-5) to TS 25.211 on "Phase reference for HSDPA",	Approved 2)
RP-020592	CRs (Rel-5) to TS 25.213 on "Power offset values for HS-DPCCH"	Approved

- 2) These CRs are related to a correction to WG2 specification that has not been presented yet in WG2. It is questioned if this CR has to be approved now or should be postponed until the WG2 CR is agreed. The group agreed to approve the CR in this meeting and tasked WG2 to produce the appropriate CR to 25.306. It was remarked that this procedure should be an exception and shouldn't be repeated.

7.2 TSG RAN WG2

7.2.1 Report from WG2 including report on actions required from the previous meeting

RP-020534 Report from WG2 chairman to TSG-RAN (TSG-RAN WG2 Chairman)

Denis Fauconnier (Nortel), RAN WG2 chairman, presented this report.

The work in RAN WG2 can be summarized as follows:

Release 99 corrections:

- Occupied 60% of last meeting
- Reason of the time spent is that RAN WG2 is more and more strict on R99 corrections, it takes time to reject a CR i.e. identify all impacts if not approved
- Corrections with minimum impacts are investigated extensively

Release 4 corrections:

- Very minor
- Some are delayed corrections from R99

Release 5:

- Completion of small Work Items and HSDPA
- Beginning of work on IMS RABs

Release 6:

- Progress towards MBMS architecture

Future work should be mainly on:

- R99 corrections (still), HSDPA, IMS RABs, MBMS

Edgar Fernandes (Motorola) raised the concern of UE manufacturers on adding more RABs to the test specification 34.108. Hashem Madadi (Hutchinson) requested that the un-necessary RABs are added to the TR, these RABs will be undoubtedly used and be the base of some commercial agreements and IOT. RAN WG2 chairman clarified that many of the RABs already in 34.108 are redundant, for example the same functionality is tested several times but with different bit rate. In its view, adding new RABs to 34.108 should be only done to test new functionality instead of having there all the combinations possibly used commercially.

It is suggested to have an additional technical report for RAB recommendations and guidelines for operators, separated from the RAB list for testing.

Francesco Grilli (Qualcomm) noted that this new TR should be better under the responsibility of a group outside of 3GPP, an operator's group as GSMA. The chairman commented that in any case, the operators and the GSMA as such can make contributions to this report.

Said Tatesh (Lucent) noted that the creation of this report cannot mean that 34.108 is frozen, some RABs may need to be added, for example to support narrow band AMR. RAN WG2 chairman confirmed this. If additions (or deletions) of RABs are required to 34.108 they will be incorporated.

Jussi Numminen (Nokia) commented that the RABs in 34.108 do not define testing related to PDCP layer, so modifications are however needed.

It is clarified that the discussion applies to Release99.

The high number of CRs, specially those reported as corrections related to measurements, was objected. There seems to be different views on when a CR is essential or not. It was agreed last meeting that essential means that the system doesn't work without the correction. Howard Benn (Motorola) noted that the "consequences if not approved" field should clearly show that the CR is essential, and this is not the case with many WG2 CRs.

RP-020535 Supplement (List of all agreed CRs) to Report from WG2 chairman to TSG-RAN (TSG-RAN WG2)

Decision: The document is noted

7.2.2 Discussions on decisions from WG2

RP-020564 CRs (R'99 and Rel-4/Rel-5 category A to TS 25.331) for decision Unit at Layer 3 filtering (Proposal #1) (TSG-RAN WG2)

RP-020595 CRs (R'99 and Rel-4/Rel-5 category A to TS 25.331) for decision Unit at Layer 3 filtering (Proposal #2) (TSG-RAN WG2)

These two sets of CRs present alternative proposals for the way of performing the measurement filtering in Layer 3. WG2 has endorsed technically the contents of both sets, but couldn't agree a decision.

RP-020635 Units of layer 3 filtering (Motorola)

RP-020641 Layer 3 filtering considerations (Qualcomm)

The documents illustrate the impact on performance of the two options and shows that linear filtering provides a more accurate estimation of the measure.

Hidetoshi Suzuki (Matsushita) proposed not having layer 3 filtering in Release 99 at all, because the system can work without it and it seems that there is no agreement on the way of doing it.

Antti Toskala (Nokia) commented that the network is using logarithmic filtering and might assume that the UE is filtering the same way, this may have an impact on the network.

Decision: The documents are noted

RP-020667 Way forward on layer 3 filtering (Qualcomm, Nokia, Motorola, Panasonic)

It is proposed that both solutions are acceptable for Rel99, it will not be specified which way of measuring shall be used. For later releases, a single solution will be mandated for specific measurements. WG4 will recommend which measurements and which solution should be used. WG4 is tasked to perform simulations and study both solutions and provide to RAN#18 with a recommendation.

It is noted that WG3 also has a logarithmic filter in its specifications, so depending on the final decision it may happen that it is done differently in WG2 and WG3. It was concluded that WG3 specifications should be left as they are, since the issue was agreed in WG3 without hassle.

The following points were agreed:

- Both solutions (described in documents RP-020564, RP-020595) should be considered acceptable for R'99, and therefore it is not necessary to clarify this in R'99 and this decision will not be revisited for R'99.
- A single solution will be used in later releases (at the latest for Rel-5) for specific measurements. RAN4 will recommend which are the measurements for which a single solution is deemed necessary.

- For the future releases (at the latest for Rel-5) a solution shall be chosen at RAN #18 and RAN4 is tasked to ensure a decision can be made.
- Based on the results in WG4 the necessity to correct WG2 Release 99 specification will be clarified. This activities will be provided in the RAN email exploder for information.

Decision: As a conclusion of this discussion, the CRs in RP-020564 and RP-020595 are not approved.

RP-020515 LS on Additional RAB configurations in 34.108 (R2-022422 to TSG RAN) (TSG RAN WG2)

RP-020532 LS on Additional RAB configurations in 34.108 (R1-02-1126 to TSG RAN) (TSG-RAN WG1)

It is proposed to include the RAB in R2-021902 in 34.108 and the RAB in R2-01881 in the new report on RABs. The responsibility on 34.108 is clarified as follows: RAN is responsible of the section listing the RABs, but T1 is responsible of the specification and the implementation of the CRs. Mr. Lee (Samsung) commented that the RAB proposed in R2-021881 is not necessary for testing. RAN WG2 chairman answered that the issue has been discussed in RAN WG2 and WG1 and it is necessary for some voice + data combination.

As a conclusion, it is agreed to add the RAB in R2-021902 to 34.108, a LS to TSG T informing of this agreement and clarifying the status the creation of a 34.108.

Decision: The LSs are noted

RP-020660 LS on new RAN TR collecting example RABS (Ericsson)

Jussi Numminen (Nokia) commented that there is already a TR listing RAB scenarios (not for testing) in Release 5 for IMS. It was clarified that this TR has a different scope, it focus on the particular needs of IMS (delay, ...). However, it might be advisable to merge it with the new one; this will be studied in WG2.

The new TR is proposed for Release 99, but it will certainly have a Rel-5 version, what means that there would be two TRs in Rel-5 listing RABs. This solution was heavily objected, its seems preferable to have a Release independent TR. The chairman noted that with this solution, since it will have only one version number, it will not be possible to estimate the level of completion of the TR for each Release. This didn't appear as a big problem, because the TR will never be completed as new RABs may be added at any time. It is agreed to go forward this way, a small correction in the scope is required to indicate that the TR is release independent. A revision of the LS is provided in RP-020664.

Decision: The LS is revised

RP-020661 Draft TR "Typical examples of RABs and RBs supported by UTRA" (Nortel Networks)

The structure of the report needs further consideration, Nokia proposes to note it now and submit it to the examination of WG2 experts. The modification of the scope as reported above has to be included also.

Decision: The TR is revised

RP-020663 Draft TR "Typical examples of RABs and RBs supported by UTRA" (Nortel Networks)

Decision: The TR is noted

7.2.3 Approval of CRs to Release 99 with linked CRs to Release 4 and Release 5

Tdoc	Title	Decision
RP-020536	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.301	Revised 3)
RP-020537	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.302	Revised 4)
RP-020538	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.321	Approved
RP-020539	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.322	Approved 5)
RP-020540	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.323	Approved
RP-020541	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (1)	Approved
RP-020542	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (2)	Approved
RP-020543	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (3)	Approved
RP-020544	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (4)	Approved
RP-020545	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (5)	Approved
RP-020546	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (6)	Approved 6)
RP-020547	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (7)	Approved
RP-020548	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (8)	Approved
RP-020549	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (9)	Approved 7)
RP-020550	Agreed CR (Release '99) to TS 34.109	Approved
RP-020631	CRs to 25.331 "SRNS relocation with integrity"	Approved

- 3) CR67 to 25.301 is contested, it doesn't have a system impact. It is objected that it was agreed in last meeting that the stage 2 and stage 3 have to aligned. As a solution it is proposed to convert stage 2 TS to a technical report. Niels Anderson (Motorola) argued that stating that the stages are not aligned in not enough information to decide if the CR is essential or not. A new revision with a clear "consequences field" will be produced. All the CRs in RP-020536 are revised in RP-020671.

Concerning the CR file, it is requested that only the final revision is included, and not the intermediate revisions of revisions. This should be applied at all RAN WGs.

- 4) Howard Benn (Motorola) objected the "consequences" and "reason for a change" fields. More explanation is required. After off line discussions, it was agreed to have a revision of the CR to 25.301 in the previous document and this CR 25.302 with a clearer explanation. RP-020537 is revised in RP-020665.

TSG RAN requested that particular care shall be taken in all Working Groups of 3GPP TSG RAN to the use of correct form for CR cover sheet and the way the different elements are filled. More particularly, for Release 99 the element provided for "Consequence if not approved" shall be very carefully written so as to provide a clear view at the plenary. Working Group chairs were requested to be particularly careful to the way the cover sheet is used and filled up before agreeing on CRs.

- 5) CRs 202, 203, 204 to 25.322 are revised in RP-020637. The revision has been already agreed by WG2. The rest of the CRs in RP-020539 are approved
- 6) There has been some comments on WG2 mail reflector highlighting errors in the ASN.1 code in CRs 1609, 1610 and 1611, a revision is provided in RP-020654, the rest of CRs in RP-020546 are approved.
- 7) CRs 1671, 1672 and 1673 to 25.331 have been revised in RP-020631. The rest of the CRs in RP-020549 are approved

RP-020637 CRs to 25.322 on "Corrections to RLC reset procedure and length indicators "
(Nokia & LG electronics)

Decision: The CRs are approved

RP-020654 CRs to 25.331 "SRNS relocation with integrity" (revision) (Alcatel)

Decision: The CRs are approved

RP-020665 Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.302 (RAN WG2)

Decision: The CRs are approved

RP-020671 Revision of CR67 to 25.301 (Nortel Networks)

Decision: The CRs are approved

7.2.4 Approval of independent CRs to Release 4 with linked CRs to Release 5

Tdoc	Title	Decision
RP-020551	Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.322	Approved
RP-020552	Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.323	Approved
RP-020553	Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.331	Approved
RP-020554	Agreed CRs (Rel-4 and Rel-5 category A) to TR 25.844	Approved

7.2.5 Approval of independent CRs to Release 5

Tdoc	Title	Decision
RP-020555	Agreed CRs (Rel-5) to TS 25.306	Approved 8)
RP-020556	Agreed CRs (Rel-5) to TS 25.321	Approved
RP-020557	Agreed CRs (Rel-5) to TS 25.331	Approved 9)

8) The square brackets in table 5.1b in CR47 to 25.306 are contested. This CR comes from WG1, and it seems that WG2 didn't check it comprehensively. WG2 is tasked to confirm/change the values and remove the brackets and come with a new CR for the next meeting. The CR is approved in any case.

9) CR 1651 to 25.331 is revised in RP-020655. The rest of the CRs in RP-020557 are approved

RP-020655 CR 1651 Rev 1 on 25.331 Physical layer IES for HSDPA (Siemens)

Decision: The CRs are revised

RP-020662 CR 1651 Rev 2 on 25.331 Physical layer IES for HSDPA (Ericsson)

Decision: The CRs are approved

7.2.6 Approval of linked CRs where the leading one originated from WG2

Tdoc	Title	Decision
RP-020558	Agreed and linked CRs (Release '99 and Rel-4/Rel-5 category A) on SFN-SFN type 1 measurement to TS 25.331, 25.215 and 25.225	Approved
RP-020559	Agreed and linked CRs (Rel-4 and Rel-5 category A) on Synchronisation for 1.28 Mcps TDD to TS 25.331 and 25.221	Approved

7.3 TSG RAN WG3

7.3.1 Report from WG3 including report on actions required from the previous meeting

RP-020597 Report from WG3 chairman to TSG-RAN (TSG-RAN WG3 chairman)

Martin Israelsson (Ericsson), RAN WG3 chairman, presented this report.

The work in WG3 can be summarized as follows:

- Less R99 and Rel-4 CRs, but discussion/CR take longer time now especially for R99.
- Several corrections to HSDPA.
- IP UTRAN issues progressed.
- Iur-g and GERAN related CRs revised according to PCG decision.
- Low activity on Rel-6
- Meetings prior to RAN are still quite busy.

It was noted that the contribution for the WI "Improvement of inter-frequency & inter system measurements" wasn't actually presented due to the lack of time and it was a for discussion and not for information.

Concerning slide 12, the request from SA WG2 to change the IP version agreement, the chairman clarified that the agreement on the IP version was not taken at RAN WG3, but at TSG RAN level. SA WG2 cannot ask WG3 for a revision of that decision.

Hashem Madadi (Hutchinson) asked for the progress on MBMS in WG3. RAN chairman clarified that the task of WG3 in this WI is to help and support WG2, which is the leading group.

RP-020598 Supplement (List of all agreed CRs) to Report from WG3 chairman to TSG-RAN (TSG-RAN WG3)

Decision: The document is noted

7.3.2 Discussions on decisions from WG3

RP-020516 Handling of R99 corrections in RAN3 (Nortel Networks/Vodafone Group)

Nortel & Vodafone note that there have been difficulties in WG3 on the interpretation of when a CR is essential and request clearer guidelines from TSG RAN. It is suggested that incompatibility between nodes belonging to different Releases should be considered, also ambiguities that may lead to interoperability problems in interfaces. Alan Law (Vodafone) summarized that intention is that the interfaces are kept open and no interoperability problems arise. Said Tatesh (Lucent) commented that the paper distributed last meeting set rules clear enough for the application. Howard Benn (WG4 chairman) commented that the procedures are clear enough, simply all the information should be provided in the CR cover sheet.

Finally, no agreement could be reached on the need of new guidelines.

Following the approval at the last 3GPP TSG RAN of the guidance on CRs for Release 99 it was clarified that the word 'system' is suppose to mean all the element of the system including open interfaces for multi-vendor configurations.

7.3.3 Approval of CRs to Release 99 with linked CRs to Release 4 and Release 5

Tdoc	Title	Decision
RP-020599	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.410	Approved

RP-020600	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.413	Approved
RP-020601	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.415	Approved
RP-020602	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.419	Approved
RP-020603	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423	Approved
RP-020604	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.433	Approved

7.3.4 Approval of independent CRs to Release 4 with linked CRs to Release 5

Tdoc	Title	Decision
RP-020605	CRs (Rel-4 and Rel-5 Category A) to TS 25.401	Approved
RP-020606	CRs (Rel-4 and Rel-5 Category A) to TS 25.413	Approved
RP-020607	CRs (Rel-4 and Rel-5 Category A) to TS 25.423	Approved
RP-020608	CRs (Rel-4 and Rel-5 Category A) to TS 25.430	Approved
RP-020609	CRs (Rel-4 and Rel-5 Category A) to TS 25.433	Approved
RP-020610	CRs (Rel-4 and Rel-5 Category A) to TS 25.435	Approved
RP-020611	CRs (Rel-4 and Rel-5 Category A) for Addition of new reference on SCTP checksum	Approved
RP-020612	CRs (Rel-4 and Rel-5 Category A) for WG4 Reference Corrections	Approved
RP-020613	CRs (Rel-5 only) for Uplink Synchronisation in 1.28Mcps TDD	Approved
RP-020614	CRs (Rel-5 only) for Rx Timing Deviation (TDD) corrections	Approved
RP-020615	CRs (Rel-5 only) for Quality IEs for the UE Positioning measurements	Approved
RP-020616	CRs (Rel-5 only) for Clarification of the Common Measurement Reporting procedure	Approved

RP-020613, RP-020614, RP-020615, RP-020616, although titled Rel-5 only CRs, actually contain Rel-4 and Rel-5 Category A CRs.

7.3.5 Approval of independent CRs to Release 5

Tdoc	Title	Decision
RP-020617	CRs (Rel-5 only) for Correction for inconsistency in length of TFCI field 2	Approved
RP-020618	CRs (Rel-5 only) for Clarification for the initial power of the power balancing (Pinit)	Approved
RP-020619	CRs (Rel-5 only) for Removal of BLER for HS-DSCH	Approved
RP-020620	CRs (Rel-5 only) for DSCH Initial Credits	Approved 10)
RP-020621	CRs (Rel-5 only) for HS-SCCH power offset	Revised 11)
RP-020622	CRs (Rel-5 only) for Change of Maximum Number of HS-SCCH Codes	Approved
RP-020623	CRs (Rel-5 only) for RL Parameter Update Procedure, CQI and ACK/NACK Repetition Factor and Power Offset and k-value	Approved 12)
RP-020624	CRs (Rel-5 only) for GERAN specific impacts on the lu-cs interface	Approved 13)
RP-020625	CRs (Rel-5 only) for UTRAN sharing in connected mode	Approved
RP-020626	CRs (Rel-5 only) for Introduction of lur-g according set 1 in LS R3-022152	Withdrawn
RP-020627	CRs (Rel-5 only) for Introduction of lur-g according set 2 in LS R3-022152	Approved
RP-020628	Single CRs (Rel-5 only) for different topics	Approved 14)
RP-020629	Single CRs (Rel-5 only) for different topics, each CR linked to other TSGs than TSG RAN	Approved 15)

10) CR687 to 25.423 is revised in RP-020646. The rest of the CRs in RP-020620 are approved

11) Both CRs in RP-020621 are revised. CR717 to 25.423 is revised in RP-020649 and CR742 to 25.433 is revised in RP-020650.

12) CR713 to 25.433 is revised in RP-020647 and CR682 to 25.423 is revised in RP-020648. The rest of the CRs in RP-020623 are approved.

13) CR684 to 25.423 is revised in RP-020652. The other CR in RP-020624 is approved.

14) CR686 to 25.423 is revised in RP-020651. The rest of the CRs in RP-020628 are approved

15) CR514 is not approved, a new CR is provide in RP-020643. The rest of the CRs in RP-020629 are **CONDITIONALLY** approved, since they are linked to other WGs the situation of these issues in these WGs has to be checked. The chairman will report this to the 3GPP TSG SA and check with the other TSGs.

- RP-020646** Revised CR to 25.423 DSCH Initial credits (NEC)
- RP-020647** Revised CR to 25.433 CQI and ACK/NACK Repetition factor and power offset and k-value (NEC)
- RP-020648** Revised CR to 25.423 CQI and ACK/NACK Repetition factor and power offset and k-value (NEC)
- RP-020649** Revised CR to 25.423 HS-SCCH Power offset (NEC)
- RP-020650** Revised CR to 25.433 HS-SCCH Power offset (NEC)
- RP-020651** Revised CR to 25.423 partial dedicated measurement reporting (NEC)
- RP-020652** Revised CR to 25.423 required enhancements due to GERAN specific impacts on the Iu-cs interface (Siemens)

Decision: The CRs in RP-020646, RP-020647, RP-020648, RP-020649, RP-020650, RP-020651 and RP-020652 are approved

- RP-020531** Response to Liaison Statement on Iur-g (R3-022152 to GERAN WG2, cc TSG RAN) (TSG-RAN WG3)
- RP-020633** Response to Liaison Statement on Iur-g (GP-022810 to TSG RAN, RAN2 & RAN3, Response to:R3-022152) (TSG GERAN)

As a result from this LS the CRs in RP-020626 are withdrawn and the CRs in RP-020627 are approved. The titles of these two documents are incorrect, RP-020627 actually contains the solution referred as #1 in the LS

Decision: The LS is noted

- RP-020643** CR on 25.413 Signalling enhancements for GERAN IuMode LCS (Nokia)

Decision: The CR is approved

7.3.6 Approval of linked CRs where the leading one originated from WG3

- RP-020630** Linked CRs on TS 25.433 (RAN WG3) and TS 25.331 (RAN WG2) on IP_offset correction (TSG-RAN WG3)

Decision: The CRs are approved

7.4 TSG RAN WG4

7.4.1 Report from WG4 including report on actions required from the previous meeting

- RP-020471** Status report WG4 (TSG RAN WG4 Chairman)

This report is revised in RP-020636

- RP-020636** Status report WG4 (TSG RAN WG4 Chairman)

Howard Benn (Motorola), chairman of RAN WG4, presented this report.

RAN WG4 had 1 meeting after the last RAN meeting with the usual number of delegates (around 80), and 339 input contributions. The CRs approved per Release are as follows:

- Release 99 - ~~12~~10 CRs
- Release 4 - 34 CRs
- Release 5 - 69 CRs

Concerning the actions for WG4 requested in last TSG RAN:

- Spacial channel models (Action from joint 3GPP/3GPP2 adhoc). The SCM status was presented.
- IPDL: No decision on Node B off power, so not completed – recommend UE CR available but not approved
- Responded directly to ETSI TC ERM after reviewing the document attached to LS ETSI/ERM-RM21(02)MZ_37r1 (RP-020277).
- New spectrum report: question to RAN on status report scope

Concerning the Antenna testing Study, WG4 suggests to close the SI for the time being but to continue monitoring the work in CTIA and COST. These two groups are currently working on 3G UE testing methods but haven't finished them yet. WG4 shall appoint a official rapporteur to monitor the progress of these groups. Per Ernstrom (Telia) suggested to keep open the Antenna testing SI in order to have a regular reporting of the monitoring of the work in CTIA/COST. It was finally agreed that a SI or WI will be too much administrative overload for the task required, which is simply monitoring the work. WG4 chairman will inform of the progress in his chairman report without the need of a SI report. Per accepted this way forward, although requested that WG4 allocates the necessary meeting time to follow the work in CTIA/COST.

In the last WG4 meeting there was a long discussion related to the UMTS1800/1900 Technical Report. WG4 agreed to request the withdrawal of that TR, given that the CRs have already been implemented and the TR was used as a container for the simulations used to derive the CRs. Howard Benn clarified that the fact of withdrawal is that it will appear as Withdrawn in the Specification database in the 3GPP server. The reports withdrawn will not appear in the new folders created after each TSG, but they will not be removed from the old folders either.

Antti Toskala (Nokia) noted that the requirements for the UE on IPDL should be unrelated to the discussion on the power level in the Node B. This was objected by Edgar Fernandes (Motorola), it cannot be required that the UE has the same performance with different IP power level in the downlink; there is also impact in the RRM and in compress mode operation. Jussi Numminen (Nokia) clarified that the IP power level in the Node B and the search window size in the UE are unrelated issues; the second one is under study now by the UE manufacturers and will be very likely solved in the next meeting.

RP-020472 List of agreed CRs from RAN WG4 (and CRs agreed in RAN WG1 linked to RAN WG4 CRs) (TSG-RAN WG4)

Decision: The document is noted

7.4.2 Discussions on decisions from WG4

It was approved to withdraw the following TRs, as requested in the chairman report:

- TR 25.845 – FDD RACH and AICH performance requirements
- TR 25.885 – UMTS 1800/1900
- TR 25.886 – TEI

RP-020462 LS on the scope of the study item Viable deployment of UTRA in additional and diverse spectrum arrangements (R4-021380 to TSG RAN) (TSG RAN WG4)

The LS was presented and companies were asked to study the questions raised by WG4 so a response can be agreed later. It was requested that the TR on viable deployment of UTRA in additional bands was made available as side information. See section 8.7.5 for the follow up.

Decision: The LS is noted

7.4.3 Approval of CRs to Release 99 with linked CRs to Release 4 and Release 5

Tdoc	Title	Decision
RP-020473	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.102	Approved
RP-020474	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.123	Approved
RP-020475	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.133	Approved
RP-020476	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.142	Approved

RP-020468 Correction of regional requirement on Test Tolerances in TS25.141 (Rel.99 and beyond) (ARIB)

Decision: The CRs are approved

7.4.4 Approval of independent CRs to Release 4 with linked CRs to Release 5

Tdoc	Title	Decision
RP-020477	CRs (Rel-4 and Rel-5 Category A) to TS 25.102	Approved
RP-020478	CRs (Rel-4 and Rel-5 Category A) to TS 25.113	Approved
RP-020479	CRs (Rel-4 and Rel-5 Category A) to TS 25.123 (1)	Approved
RP-020480	CRs (Rel-4 and Rel-5 Category A) to TS 25.123 (2)	Approved
RP-020481	CRs (Rel-4 and Rel-5 Category A) to TS 25.133	Approved
RP-020482	CRs (Rel-4 and Rel-5 Category A) to TS 25.142	Approved
RP-020483	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 and TS 25.143 "Correction of the Out of Band Gain Limits"	Approved

7.4.5 Approval of independent CRs to Release 5

Tdoc	Title	Decision
RP-020484	CRs (Rel-5) to TS 25.101	Approved
RP-020485	CRs (Rel-5) to TS 25.104	Approved
RP-020486	CRs (Rel-5) to TS 25.105	Approved
RP-020487	CRs (Rel-5) to TS 25.133	Approved
RP-020488	CRs (Rel-5) to TS 25.141	Approved
RP-020489	CRs (Rel-5) to TS 25.142	Approved
RP-020490	CRs (Rel-5) to TS 25.102, TS 25.105, 25.142 and 34.124 "Update of the reference to ITU rec. SM329-9"	Approved
RP-020491	CRs (Rel-5) to TS 25.105 and TS25.142 "Correction of the ACS and DR requirements (3.84 Mcps and 1.28 Mcps)"	Approved
RP-020492	CRs (Rel-5) to TS 25.104 and TS 25.141 "Correction of the CPICH measurement"	Approved
RP-020493	CRs (Rel-5) to TS 25.105 and TS25.142 "Applicability of requirements in case of devices external to the BS"	Approved
RP-020494	CRs (Rel-5) to TS 25.105 and TS25.142 "Correction of the total power dynamic range definition"	Approved

7.4.6 Approval of linked CRs where the leading one originated from WG4

Tdoc	Title	Decision
RP-020529	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.133 and TS 25.214 "Definition of valid range for Rx-Tx time difference"	Approved 16)
RP-020530	CRs (Rel-4 and Rel-5 Category A) to TS 25.141 and TS 25.215 "Transmitted carrier power measurement correction"	Approved 17)

16) Francesco Grilli (Qualcomm) noted that, although these CRs originate from Qualcomm, the range proposed in the CR (+/-148 chips) is not the optimal in its opinion and asked that this issue is studied further and could be improved in the future. The CRs are approved in any case.

17) There is an inconsistency between WG1 and WG4 in these CRs, CRs to 25.215 are presented for Rel-4 and Rel-5, but the CR to 25.141 is only for Rel-5. Two different views were expressed, either withdraw Rel-4 to 25.215 or create a new Rel-4 to 25.141.

Howard Benn commented that the question is of a more fundamental nature, it seems each group is putting the clarification corrections, i.e. non essential, to a different Release. It was suggested that the sooner the better, what means to introduce this kind of CRs on Release 4. On the other side, it was argued that Release 4 has almost no change in RAN compared to Release 99, with the exception of LCR TDD; the major improvement in RAN after Release 99 is in Release 5, which in some sense it is not completed.

Finally, the 3 CRs were approved. It wasn't considered necessary to create a Rel-4 for 25.141, since WG4 is normally adding the performance tests in Rel-5. It seemed acceptable to correct the definition of the measurement in Rel-4 and put the test case in Rel-5.

7.5 ITU-R Ad Hoc

RP-020517 Contribution to ITU-R WP8F on the update of Recommendation ITU-R M.1457 to Revision 3 (ITU-R Ad Hoc)

The chairman commented that there is inconsistency between the contributions from 3GPP presented to ITU-T and ITU-R. The references to the 3GPP specifications provided to ITU-T and ITU-R are from different versions or even Releases.

Decision: The contribution is approved and will be provided to the PCG.

RP-020518 Reminder for the OPs on the compliance with ITU-R procedures as it relates to Revision 3 of Recommendation ITU-R M.1457 (ITU-R Ad Hoc)

Decision: The contribution is approved and will be provided to the PCG.

RP-020519 Contribution to ITU-R WP8F on the update of Recommendation ITU-R IMT.UNWANT-MS [M.1581] (ITU-R Ad Hoc)

The contribution to ITU is approved. The PCG will have to approve it as well. A LS to TSG T will be sent as soon as possible so they can evaluate the impact. See document RP-020653

Decision: The contribution is approved

RP-020520 Contribution to ITU-R WP8F on the Revision of Recommendation ITU-R M.1079. (ITU-R Ad Hoc)

Decision: The contribution is approved in principle. SA has to approve it also, and it is possible that it modifies it too. The chairman will take care of the potential modification and will send it for approval to the PCG.

8 Not completed WI for Release 5 and beyond: Status update and approval of CRs, reports

RP-020502 3GPP Work Plan [Slide Presentation] (MCC)

Alain Sultan (3GPP support) gave this presentation.

The proposals made by Alain to close certain Work Items where no work had been done for some time had been already considered by the group but discarded for diverse reasons. These slides will be updated with the results from this TSG RAN meeting prior to presentation to TSG SA.

Decision: The presentation is noted.

RP-020459 Work Items and Study Items. Historic and Latest situation (Secretary)

RP-020501 3GPP Work Plan (MCC)

These documents are presented for information

Decision: The documents are noted

8.0 Discussion on Early UEs

RP-020466 Summary of RAN email discussion for handling of early mobiles (Vodafone Group)

Alan Law (Vodafone) presented this contribution

The chairman noted that CN has already a TR similar to 09.94

RP-020465 Vodafone proposal to handle early mobiles (Vodafone Group)

Alan Law (Vodafone) presented this contribution

Lucent expressed concerns on the possibility of unfair behaviour if the IMEI-SV is in use.

RP-020512 Early UE handling proposal (NEC)

Michael Roberts (NEC) presented this paper.

Alan Law (Vodafone) commented that the IMEI-SV doesn't need to be exchanged every time an RRC connection is setup, only the first time. Michael Roberts answered that this is true for packet connections, but not for circuit connections.

Antti Toskala (Nokia) commented that UE that are not able to implement correctly the connection phases and all the basic procedures shouldn't even appear in the market, it is not a case that can be expected. Michael commented that the history of GSM/GPRS shows that this situation is possible.

RP-020565 Proposal to handle early mobiles (Alcatel, Fujitsu, Orange)

Eisuke Fukuda (Fujitsu) presented this contribution

It is clarified that the "relevant 3GPP groups" referred at the end of section 1 are the RAN groups.

Jussi Numminen(Nokia) commented that there is a impact to UTRAN with this solution as well, and this should be analysed to understand this behaviour.

RP-020632 Early UE handling (Lucent)

Sudeep Palat (Lucent) presented this contribution.

RP-020656 Elaboration of UE Vendor name plus time stamp (Ericsson)

Per Beming (Ericsson) presented this document.

There were concerns on the number of platforms available, since many manufacturers have more than 1 platform.

The figure of 16 years was questioned. Per Beming explained that this mechanism will work for Releases later than 99 also, for example it is likely that similar problems arise (although in lower number) for HSDPA. Jussi Numminen (Nokia) noted that this is an important point to consider, the solution adopted should be useful for further releases also. However this proposal does not address the problem that same manufacturer may have several models in same time in the market, but manufacturer indication is only intended to have one value+ timestamp. Only one manufacturer number seemed too limiting.

It is clarified that the time stamp will be updated with a new firmware revision.

Michael Roberts (NEC) and Niels Anderson (Motorola) raised a shortcoming of this technique: The case when a faulty hardware, that cannot be upgraded, has its firmware upgraded and also the time stamp; in this situation the network will understand that it has a hardware with a the new time stamp.

RP-020513 WI description for IMEI-SV based solution (NEC)

RP-020514 Early UE handling using 4.10 solution (NEC)

These documents are presented as additional information

As a way forward, it is proposed to keep both approaches. It is suggested to implement the hooks decision but in the form of an external container, for this it will only be necessary to include a bit indicating that the container is inserted and not to reserve immediately a fixed number of hooks bits. This is the best solution from the point of view of Motorola, if the CR for the introduction of the bit is approved now it will be possible to start the production of terminals with the solution included. A proposals for the actual implementation of this one-bit solution has been already reviewed at WG2, but it seems clear that it has to be examined again, and most likely at next TSG RAN the CRs could be approved.

Alan Law (Vodafone) had some reserves on the purpose of approving the CRs implementing the bit that flags the extension container before the problems are identified. It was unclear how a single bit can be sufficient, the length of the container should be determined also, and this makes this proposal less acceptable.

Niels Anderson (Motorola) requested that the solution is backwards compatible with the current Rel99 implementation. This doesn't seem obvious, depending on which message is used to introduce the bit it could be impossible to make backwards compatible. In any case, it is the task of WG2 to study all the implications.

Concerning the IMEI-SV solution, it seems necessary to discuss the issue with CN and SA2. There are a number of implications to consider: GSM handover, ciphering, required changes in the Iu and determination of the location of the database that is necessary for IMEI handling – either in the MSC or RNC. This is typically a task for 3GPP TSG SA WG2. All these reasons make this proposal a longer term solution. Since this is network only solution, and networks are usually a mixture of Releases, it can be introduced in any later Release. There was also an agreement to start a Release independent Study Item involving RAN WG2, WG3, CN and SA2.

RP-020666 Status of early UE handling with proposed SI (Vodafone Group, Nortel)

Alan Law (Vodafone) presented this document.

Alan clarified that the solutions are not exclusive, he also commented that this doesn't mean that the hooks have been agreed. All the solutions will be evaluated and then a decision will be made.

Edgar Fernandes (Motorola) objected that the decision on the hooks had been different in the previous discussion, basically they had been agreed.

Denis Fauconnier (Nortel) clarified that the part of the study item that concerns the hooks is what goes into the extension containers, but not the existence of the hooks themselves. WG2 is tasked to provide the CR incorporating the bit that indicates the presence of the container to the appropriate Uu message. This is of great importance, for backwards compatibility in the UE this bit has to be included as soon as possible.

It is however necessary to study in detail the extension containers and the impact of this solution in the rest of the network interfaces, this will need more time and will be the subject of the study item.

Concerning the study item itself, a number of comments were raised: Denis Fauconnier noted that objective #2 is not related to the Early UE handling discussion. It shouldn't be part of the study. Antti Toskala (Nokia) objected that this approach was suggested in the email discussions on the Early UEs before the meeting. It is finally agreed that the second bullet will be as follows:

- 2) Extension mechanism to the RRC messages allowing rel-99 corrections, (e. g. when rel-4 changes needs to be backwards compatible).

The SI sheet needs to be revised by WG2, but the chairman will use RP-020666 as a first draft for information to the other groups.

Decision: It is agreed to create the SI item, the SI description sheet has to be revised

8.1 Radio Interface Improvement Feature

During the discussion on Work Items and Study Items the chairman proposed that the issue for which no progress is made for two consecutive TSG RAN plenaries will be automatically proposed for deletion. This was supported by the delegates.

8.1.1 Improvement of inter-frequency and inter-system measurements

RP-020638 Status Report of WI "Improvement of Inter-frequency and inter-system measurement " (Nokia WI Rapporteur)

Antti Toskala (Nokia), RAN WG1 chairman, presented this report.

Work has started. The completion date, TSG #20, is agreed.

Decision: The report is noted

8.1.2 FDD Base Station Classification

RP-020469 Status report for WI FDD Base Station Classification (Rapporteur)

Antti Toskala (Nokia), RAN WG1 chairman, presented this report.

Most of the Medium Area BS requirements have been agreed, Local Area BS work still pending.

Antti clarified that the 85% completion applies to the whole FDD BS Classification WI, the biggest part of the work, which is the simulations, has been done.

Decision: The report is noted

8.1.3 Improved usage of downlink resource in FDD for CCTrCHs of dedicated type

RP-020560 Status Report WI Improved usage of downlink resource in FDD for CCTrCHs of dedicated type (Rapporteur)

This report hasn't been provided, no activity has been done for a time and it seems no work will be done in the future. It is agreed then to remove the WI from the Work Plan

Decision: The WI is closed and removed, the report is noted

8.1.4 Terminal power saving features

This is a generic Work Item. Since no work has been presented for a while, it is proposed to delete it. Mr. Lee (Samsung) argued that it is the intention to produce some work for HSDPA terminals when HSDPA is more stable.

Decision: The WI is kept in the Work Plan

8.1.5 Multiple Input Multiple Output antennas (MIMO)

RP-020594 Status report WI Multiple Input Multiple Output antennas (MIMO) (Rapporteur)

Said Tatesh (Lucent) presented this report.

The system channel model will have to be approved in 3GPP. The completion date and percentage of completion are agreed.

Decision: The report is noted

8.1.6 Improvement of RRM across RNS and RNS/BSS

This agenda item was deleted

8.1.7 Improving Receiver Performance Requirements for the FDD UE

RP-020510 Status Report for WI Improving Receiver Performance Requirements for the FDD UE (Rapporteur)

Howard Benn (WG4 chairman) presented this report.

WG4 couldn't agree on a level of completion for this WI, the finish date remains December 2002.

Howard Benn explained that the Rel-6 CR approved in last meeting is still kept "frozen" and will be implemented when TSG RAN decides to create the Rel-6 specification. He clarified that Nokia is working in this area and more CRs are expected in the future under this WI.

Decision: The report is noted

8.2 RAN Improvement Feature

8.2.1 RRM Optimization for lur and lub

This is a generic feature, no status report is provided.

8.2.2 Radio access bearer support enhancement

RP-020596 Status report WI RAB support enhancements (Rapporteur)

Antti Toskala (Nokia) presented this report.

No Rel-6 specific topics have been proposed yet. RAN WG2 chairman indicated that WG2 will very likely study the new Rel-6 contents of the Feature in the future.

Decision: The report is noted

8.2.3 Improvement of RRM across RNS and RNS/BSS

RP-020498 Status report for WI Improvement of RRM across RNS and RNS/BSS (Rapporteur)

Antti Toskala (Nokia) presented this report.

there were some concerns on the completion date, since the work done is only 30%. Martin Israelsson (WG3 chairman) clarified that the work has been done, two proposals have been presented but no agreement has been reached; it is still possible to complete the work for December.

Decision: The report is noted

8.2.4 UTRAN sharing in Connected mode

RP-020499 Status report for WI UTRAN Sharing in Connected Mode (Rapporteur)

Martin Israelsson (WG3 chairman) presented this report.

The CRs were presented under agenda item 7.3, the chairman noted that the CRs should have been presented and approved with the status report; MCC will ensure that this will be done in the future. It was commented also that there is no need for WG3 to spend time in its internal report now that the WI is finished.

Decision: The WI is closed, the report is noted

8.2.5 Beamforming Enhancements

RP-020640 Status Report for WI "Beamforming Enhancements" to TSG (Rapporteur)

Antti Toskala (WG1 chairman) presented this report.

Antti noted that the work in WG1 is fairly advanced, and WG3 has simply to check the impact on Iub. It is unclear the amount of work pending in WG4, the performance requirements could take longer than the proposed completion date (December 2002). It appears more reasonable to move the completion date to March 2003.

Decision: The completion date is change to March 2003, the report is noted.

8.3 UE Positioning

8.3.1 UE positioning enhancements

This is a generic work item, no status report is provided.

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

RP-020506 Status report for WI Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods (Rapporteur)

Meik Kottkamp (Siemens) presented this report.

No work has been presented in WG2, it is proposed to change the date to March 2003.

Decision: The completion date is changed to March 2003, the report is noted.

8.4 High Speed Downlink Packet Access (HSDPA)

8.4.1 HSDPA - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing

RP-020505 Status report for WI HSDPA RF (Rapporteur)

Edgar Fernandes (Motorola) presented this report

It was noted that this is a Status Report for the WG4 part of the WI, the WG1 comments are presented for information. A question was raised on what discussions still are ongoing for closed loop TX diversity mode 2. WG1 chairman clarified that in this case there are problems on having a comparable simulation results to make further conclusions. It was clarified that the HS-DPCCH power control issue will be solved in a short time.

It was questioned what was the status of the HSDPA WI for Release-6. There is work to be done, like the discussions on QPSK/16QAM or the TX diversity performance requirements, and the till now the WI is Rel-5 only. It was unclear whether a new WI, HSDPA enhancements, is required or not. Some companies favour including the additional features inside TEI6, because by now the additions are small and mostly left overs from Rel-5, and others companies believe that this procedure hides the work in the TEI6 basket. No agreement to create a new WI could be reached in this meeting.

It is clarified that there is no performance requirements for the demodulation of HS-DPCCH in WG4, and no contributions have been presented for this topic yet.

The deferral of the HS-DPCCH power control issue to Release 6 has yet to be decided in WG1. In general it was commented that WG1 should do only corrections and not add new functionalities to Release 5 anymore. Depending the amount of work required and the expected timeframe, WG1 will have to evaluate whether it can be kept in Rel-5, or it will be presented for Release-6 as a TEI6 correction, or a new Work Item is required.

Decision: The report is noted

CRs under this WI:

Tdoc	Title	Decision
RP-020495	CRs (Rel-5) for WI "High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing"	Approved

8.5 Enhancement of broadcast and introduction of Multicast Capabilities in RAN

8.5.1 Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN

RP-020562 Status Report Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN (Rapporteur)

Antti Toskala (Nokia) presented this report.

It is clarified that the intended completion date is June/September 2003, it is difficult to estimate at this stage. The numbers of the TR and TS are as follows:

TR 25.992 "Multimedia Broadcast/Multicast Service (MBMS); UTRAN/GERAN requirements"

TS 25.246 "Introduction of Multimedia Broadcast/Multicast Service (MBMS) in RAN"

Decision: The completion date is changed to June 2003, the report is noted.

8.6 Technical Small Enhancements and Improvements

RP-020509 Handling of GERAN specific future inputs to TSG RAN WG3 specifications (ARIB)

Cheng Hock Ng (NEC) presented this document.

Some comments on the wording of the statement were raised. The chairman will produce a revised text clarifying the ambiguity. The principle of the proposal is approved, the chairman will bring it to the PCG for consideration. The paper is will be also presented in WG3.

Decision: The document is endorsed.

RP-020669 Handling of GERAN specific future inputs to TSG RAN WG3 specifications (update) (ARIB)

Decision: The document is approved

8.7 Study Items

8.7.1 Radio link performance enhancements

RP-020639 Status Report for SI "Radio Link Performance Enhancements" to TSG (Rapporteur)

Antti Toskala (WG1 chairman) presented this report.

Decision: The completion date is changed to December 2002, the report is noted.

8.7.2 Fast Cell Selection (FCS) for HS-DSCH

RP-020533 Status Report for SI Fast Cell Selection for HS-DSCH (Rapporteur)

Howard Benn (Motorola) presented this report.

Howard corrected verbally that there were two contributions presented in WG1#27. The report proposes to close the SI due to the lack of progress, Said Tatesh (Lucent) objected that there is still work to do in this area, notably for intra-Node B cell selection. Other companies also objected closing the SI.

It is agreed that Lucent will take over as rapporteur of the SI instead of Motorola, the completion date is delayed to March 2003

Decision: The report is noted, completion date is March 2003 and the name of the new rapporteur is Rizwan Hassan from Lucent.

8.7.3 Feasibility study on UTRA Wideband Distribution System (WDS)

RP-020496 Status report for SI FS on UTRA Wideband Distribution System (WDS) (Rapporteur)

Carlo Matarasso (Tekmar) presented this report.

No contribution was presented in WG4, the work is still on going.

Decision: The report is noted

8.7.4 SRNS Relocation Procedure enhancement

RP-020500 Status report for SI SRNS relocation procedure enhancement (Rapporteur)

Woonhee Hwang (Nokia) presented this report.

It is agreed to close the study, but WG3 couldn't agree on the way forward for the Work Item. Some companies didn't believe that the technique presented a substantial gain, but Woonhe commented that it is still possible that a Work Item proposal is agreed out of the meetings and presented at the next TSG RAN.

Decision: The Study is closed, the report is noted.

8.7.5 Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements

RP-020467 Status Report for SI FS considering the viable deployment of UTRA in additional and diverse spectrum arrangements (Rapporteur)

Thomas Unselm (Ericsson) present this report.

It is clarified that no contribution has been presented in WG2, the chairman requested that information is properly exchanged between groups.

Decision: The report is noted

RP-020657 Study Item Report 25.889 Draft version 1.1.0 (Rapporteur)

This TR is presented as background information.

The way to submit this information to ITU was widely discussed. It was unclear if the TR should be sent to ITU or not. Howard Benn (WG4 chairman) clarified that this TR is an internal 3GPP working document. It was agreed that when the Study is finished and conclusions are reached, a separate document has to be drafted by the ITU-R ad hoc group in RAN. This document will have to be approved by RAN and go to ITU through the PCG.

Considering the questions raised by WG4 in the LS (RP-020462), after off line discussions it was agreed not to perform co-existence studies for FDD and TDD, since the exact band allocation is required and it is not available, and it is not in the hands of 3GPP to decide on it anyway. The use of the complete band for TDD will be considered. A LS to WG4 informing of the decision was proposed. See document RP-020668.

8.7.6 Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD

RP-020507 Status report for SI Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD (Rapporteur)

This report is revised in RP-020634

RP-020634 Status report for SI "Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD" (Rapporteur)

Jung Gon Kim (Samsung) presented this report

Decision: The report was noted

RP-020508 TR25.888v1.0.0 (Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD) (Rapporteur)

This TR is presented for information as version 1.0.0

Decision: The TR is noted

8.7.7 Feasibility study of UE antenna efficiency test methods performance requirements

RP-020470 Status report for SI FS of UE antenna efficiency test methods (Rapporteur)

Edgar Fernandes (Motorola) presented this report.

The chairman raised the concern that there is no delegate from 3GPP actually attending the meetings of CTIA and COST, it seems that the agreement in WG4 was to monitor the work. It is agreed to task WG4 to find a person that will participate in the meetings and report to 3GPP.

Decision: The study is closed, the report is noted

8.7.8 Enhancements to OTDOA Positioning using advanced blanking methods

RP-020563 Status Report Enhancements to OTDOA Positioning using advanced blanking methods (Rapporteur)

David Bartlett (CPS) presented this report.

The percentage of completion is objected. Denis Fauconnier (WG2 chairman) clarified that the completion in WG2 is more than 40%, but it is 0% in WG1. It was noted also that WG4 needs to study the issue, and comparisons with IPDL are required to estimate the interest of the technology.

Decision: The report is noted

8.7.9 Analysis of OFDM for UTRAN evolution

RP-020511 Status report for SI Analysis of OFDM for UTRAN enhancement (Rapporteur)

Evelyne Le Strat (Nortel) presented this report.

Decision: The report is noted

RP-020593 Updated SI Description Analysis of OFDM for UTRAN enhancement (Rapporteur)

Evelyne Le Strat (Nortel) presented this SI description.

Said Tatesh (Lucent) noted that WG1 has not really agreed on the scope, and questioned why the SI description should be approved in this situation. The concern is just a matter of procedure.

Antti Toskala (WG1 chairman) reminded that, with the exception of the extension of the study to a bandwidth wider than 5 MHz, the rest of the SI description was agreed at WG1.

Volker Hoehn (Vodafone group) objected that the bottom line in the objective section precludes that the results will be positive and there will be an Work Item after. It was noted that the text has been distributed long time ago as it is and nobody had complained before.

Per Beming (Ericsson) requested to add as a new objective to minimize the impact on layer 1, in addition to the reference to the impact on signalling.

It was agreed to produce a new SI description sheet taking onboard the comments from Per and Volker.

Decision: The SID sheet is revised

RP-020672 Revised SI Description "Analysis of OFDM for UTRAN enhancement" (Rapporteur)

Decision: The SI Description sheet is approved

8.8 New Work Items/Study Items

RP-020503 Proposed WI Satellite based broadcast layer using UTRA FDD W-CDMA technology (Alcatel)

Beatrice Martin (Alcatel) presented this proposal.

The objective is to provide elements to assess the feasibility of a satellite based broadcast layer using UTRA FDD W-CDMA technology. It will identify the possible impacts on UTRAN architecture and protocols to introduce this satellite based broadcast layer that will co-operate with UTRAN to support multimedia broadcast/multicast services.

Antti Toskala (Nokia) requested an additional 3 months period to study the technical report from ETSI SES that has been provided before approving a new WI. Edgar Fernandes (Motorola) supported this view.

Hashem Madadi (Hutchinson) questioned the need of such a work item, there are already studies going on new bands and new technologies (OFDM).

Denis Fauconnier (WG2 chairman) commented that many issues have to be studied before starting a WI. For example, a satellite serving Europe should be considered as one cell shared by all the operators?

[Luca Zaccheo \(Agilent\) clarified that the impact on the radio interface would be smaller than OFDM, the WID remarks that the FDD WCDMA terrestrial interface will be reused. He noted that a number of European Projects have been studying the issues mentioned, that work can be reused. The intention is to start the work in 3GPP WGs, and in any case the WI description can be revised. Luca remarked that the new system could help to solve some of the problems on MBMS already identified in WG2, like terrestrial cell network overload, MBMS power allocation, wide area scattered users, country side coverage.](#)

Alan Law (Vodafone) commented that at the current state of 3GPP the effort to develop this new technology is not justified by the incremental gain to be obtained. Volker Hoehn (Vodafone) objected investigating anything related to satellite, since companies have invested high sums on the terrestrial access. This view was also supported by Hashem, although this is a technical committee, there are strong commercial implications that will oppose 3GPP operators, as a matter of principle, to a WI like this.

It is noted that work in 3GPP is based on the terrestrial access only, a revision of the Terms of Reference and scope of the project will be required to include a satellite component.

Many companies have expressed opposition to this Work Item, therefore it cannot be accepted.

Decision: The Work Item is rejected

RP-020658 Study Item Description Uplink Enhancements for Dedicated Transport Channels (Ericsson, Nokia, Motorola, AT&T Wireless Services)

Antti Toskala (Nokia) presented this proposal.

The following enhancements will be studied:

- Adaptive modulation and coding schemes
- Hybrid ARQ protocols
- Node B controlled scheduling
- Physical layer or higher layer signalling mechanisms to support the enhancements
- Fast DCH setup
- Shorter frame size and improved QoS

Decision: The Study Item is approved

RP-020659 Proposed SI, Distributed RAN Architecture (Nokia)

Antti Toskala (Nokia) presented this proposal.

The study item work includes study of the following items:

- Integration of the control functionalities in the Node B
- Necessary Iu and Iur enhancements
- Reduction of the Iu & Iur control plane protocol stack
- Other necessary enhancement of UTRAN procedure to support distributed RAN architecture
- No impact on the UE

It was clarified that the migration and interoperability with the current architecture will be studied. The impact on the protocols has to be studied by WG2, not only WG3. Denis Fauconnier (Nortel) commented that the impact on Iub is not mentioned in the list of items. A number of potential problems were suggested, but it is noted that the proposal is for a study item and not a work item, therefore its purpose is precisely to study all those issues.

Other companies also commented that the proposal as presented is unclear, a revised proposal is presented in RP-020670.

Decision: The SI sheet is revised

RP-020670 Proposed SI, Distributed RAN Architecture (Nokia)

Antti Toskala (Nokia) presented this proposal.

Some concerns were raised on the impact of a new architecture on the performances of the UE. This will be examined in the study.

Decision: The SI is approved

RP-020504 Proposed SI Analysis of higher chip rates for UTRAN evolution (IPWireless)

Roger Quayle (IP Wireless) presented this proposal.

It was clarified that the higher chip rate could also be used for FDD, but the proponents are for the time being focusing in TDD. It was clarified also that the system could be used as an overlay of the current TDD.

Antti Toskala (Nokia) questioned the selection of the rate at 7.68 Mcps, the rate should be selected based on the requirements and not simply the double of the current TDD. Other rates shouldn't be precluded in the study.

Antti commented also that the study shouldn't be reduced to the particular frequency arrangement of the 2500-2690 MHz.

Decision: The SI proposal is revised

RP-020673 Revised Proposed SI "Analysis of higher chip rates for UTRAN evolution" (IPWireless)

Roger Quayle (IP Wireless) presented this proposal.

The paper collects the corrections raised to the previous proposal.

Decision: The SI is agreed

RP-020644 Proposed WI on SRNC Relocation enhancements (Nokia)

This document is postponed to the next TSG RAN meeting, where it will be presented with additional technical background.

9. Technical co-ordination among WGs

9.1 Review of status on action points allocated during the previous meeting

No discussions

9.2 Other needs

No discussions

10 Outputs to other groups

RP-020653 LS to TSG T regarding a proposed contribution to ITU-R WP8F (ITU Ad Hoc Rapporteur)

Decision: The LS is approved

RP-020664 LS to TSG T on new RAN TR collecting example RABS (Ericsson)

Decision: The LS is approved

RP-020668 Answer to RAN WG4 LS on the scope of the study item “Viable deployment of UTRA in additional and diverse spectrum arrangements” (Siemens)

Decision: The LS is approved

Summary of approved LS:

Tdoc	Title	To	Cc
RP-020653	LS to TSG T regarding a proposed contribution to ITU-R WP8F	TSG T	
RP-020664	LS to TSG T on new RAN TR collecting example RABS	TSG T	
RP-020668	Answer to RAN WG4 LS on the scope of the study item “Viable deployment of UTRA in additional and diverse spectrum arrangements”	TSG RAN WG4	

11 Project management

RP-020521 CR 010 to 21.101: Correction to list of specs (MCC)

RP-020522 CR 008 to 21.102: Correction to list of specs (MCC)

RP-020523 CR 001 to 21.103: Correction to list of specs (MCC)

RP-020524 CR 008 to 01.01: GSM Release 1999 specifications. (MCC)

RP-020525 CR 005 to 41.102: GSM Release 4 Specifications (MCC)

RP-020526 CR 001 to 41.103: Correction to list of specs (MCC)

RP-020527 Specs status list prior to TSGs#17 (MCC)

RP-020528 List of specs / releases (MCC)

These documents are presented for information and are noted

12 Any other business

Volker Hoehn (Vodafone) asked about the status of the relations with AISG. The chairman commented that he had contacted the chairman of that group, and it seems that for the time being AISG doesn't have legal status so it is difficult to establish a formal relation. Therefore, if any work developed in that group needs to be presented in 3GPP, it will have to be done as a contribution from a particular company.

13 Closing of the meeting

The chairman closed to meeting at 13:00 and thanked the delegates for their participation. Don Zelmer (vice chairman) thanked Alcatel and Francois Courau for the organization of the meeting.

Annex A: List of participants

Title	Surname	Firstname	Organization	Status	Partner
Mr.	Fukuda	Eisuke	Fujitsu Limited	3GPPMEMBER	ARIB
Mr.	HADA	Fumihiko	ARIB	3GPPORG_REP	ARIB
Ms.	Hwang	Woonhee	Nokia Japan Co, Ltd	3GPPMEMBER	ARIB
Mr.	Ishida	Yoshihide	ARIB	3GPPORG_REP	ARIB
Dr.	Kim	Jung Gon	SAMSUNG Electronics Co.	3GPPMEMBER	ARIB
Mr.	Komatsu	Hiroshi	J-Phone Co., Ltd.	3GPPMEMBER	ARIB
Dr.	Makihira	Tsuneichi	Mitsubishi Electric Co.	3GPPMEMBER	ARIB
Mr.	Nakamura	Takaharu	Fujitsu Limited	3GPPMEMBER	ARIB
Mr.	Nakayama	Keiichi	ARIB	3GPPORG_REP	ARIB
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Mr.	Onoe	Seizo	NTT DoCoMo Inc.	3GPPMEMBER	ARIB
Mr.	Sood	Prem	SHARP Corporation	3GPPMEMBER	ARIB
Mr.	Suzuki	Hidetoshi	Matsushita Communication	3GPPMEMBER	ARIB
Mr.	Watanabe	Kunio	Fujitsu Limited	3GPPMEMBER	ARIB
Dr.	Wilde	Andreas	Nippon Ericsson K.K.	3GPPMEMBER	ARIB
Mr.	Yonekura	Kunitoshi	Fujitsu Limited	3GPPMEMBER	ARIB
Mr.	Yoshimura	Yukio	NEC Corporation	3GPPMEMBER	ARIB
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Mr.	Baudet	Serge	ALCATEL S.A.	3GPPMEMBER	ETSI
Mr.	Beming	Per	ERICSSON L.M.	3GPPMEMBER	ETSI
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Mr.	Brook	Richard	SAMSUNG Electronics	3GPPMEMBER	ETSI
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Mr.	Chen	Dong	SIEMENS AG	3GPPMEMBER	ETSI
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Title	Surname	Firstname	Organization	Status	Partner
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Mr.	Ehrlich	Ed	Nokia Telecommunications Inc.	3GPPMEMBER	T1
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Mr.	Hayes	Stephen	Ericsson Inc.	3GPPMEMBER	T1
Mr.	Israelsson	Martin	Ericsson Inc.	3GPPMEMBER	T1
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Mr.	Zaccheo	Luca	Agilent Technologies	3GPPMEMBER	ETSI

Annex B: List of documents

Tdoc	Title	Source	Decision
RP-020455	Proposed agenda meeting #17	Chairman	Approved
RP-020456	Draft Report of the 16th TSG-RAN meeting (Marco Island, FL, USA, 4-7 June 2002)	Secretary	Approved
RP-020457	Revised draft Report of the 16th TSG-RAN meeting (Marco Island, FL, USA, 4-7 June 2002)	Secretary	Approved
RP-020458	Approved Report of the 16th TSG-RAN meeting (Marco Island, FL, USA, 4-7 June 2002)	Secretary	Noted
RP-020459	Work Items and Study Items. Historic and Latest situation	Secretary	Noted
RP-020460	Draft Report of the 3GPP/3GPP2 Harmonisation meeting on Radio Access issues (Korpilampi, Finland, June 25th 2002)	Secretary	Approved
RP-020461	LS to ETSI ERM/RM on draft ECC Recommendations related to OOB, spurious and unwanted emissions (R4-021300, response to ETSI/ERM-RM21(02)MZ_37r1 (RP-020277), cc TSG RAN)	TSG RAN WG4	Noted
RP-020462	LS on the scope of the study item "Viable deployment of UTRA in additional and diverse spectrum arrangements" (R4-021380 to TSG RAN)	TSG RAN WG4	Noted
RP-020463	LS on Allowed AMR-WB Configurations (S4-020481, to TSG RAN)	TSG SA WG4	Noted
RP-020464	LS on the evaluation of the W-CDMA UTRA FDD as a satellite radio interface (ETSI/SES53(02)87r1, to TSG RAN)	ETSI TC SES	Noted
RP-020465	Vodafone proposal to handle early mobiles	Vodafone Group	Noted
RP-020466	Summary of RAN email discussion for handling of early mobiles	Vodafone Group	Noted
RP-020467	Status Report for SI "FS considering the viable deployment of UTRA in additional and diverse spectrum arrangements"	Rapporteur	Noted
RP-020468	Correction of regional requirement on Test Tolerances in TS25.141 (Rel.99 and beyond)	ARIB	Approved
RP-020469	Status report for WI "FDD Base Station Classification"	Rapporteur	Noted
RP-020470	Status report for SI "FS of UE antenna efficiency test methods"	Rapporteur	Noted
RP-020471	Status report WG4	TSG RAN WG4 Chairman	Withdrawn
RP-020472	List of agreed CRs from RAN WG4 (and CRs agreed in RAN WG1 linked to RAN WG4 CRs)	TSG-RAN WG4	Noted
RP-020473	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.102	TSG-RAN WG4	Approved
RP-020474	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.123	TSG-RAN WG4	Approved
RP-020475	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.133	TSG-RAN WG4	Approved
RP-020476	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.142	TSG-RAN WG4	Approved
RP-020477	CRs (Rel-4 and Rel-5 Category A) to TS 25.102	TSG-RAN WG4	Approved
RP-020478	CRs (Rel-4 and Rel-5 Category A) to TS 25.113	TSG-RAN WG4	Approved
RP-020479	CRs (Rel-4 and Rel-5 Category A) to TS 25.123 (1)	TSG-RAN WG4	Approved
RP-020480	CRs (Rel-4 and Rel-5 Category A) to TS 25.123 (2)	TSG-RAN WG4	Approved
RP-020481	CRs (Rel-4 and Rel-5 Category A) to TS 25.133	TSG-RAN WG4	Approved
RP-020482	CRs (Rel-4 and Rel-5 Category A) to TS 25.142	TSG-RAN WG4	Approved
RP-020483	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 and TS 25.143 "Correction of the Out of	TSG-RAN WG4	Approved

Tdoc	Title	Source	Decision
	Band Gain Limits"		
RP-020484	CRs (Rel-5) to TS 25.101	TSG-RAN WG4	Approved
RP-020485	CRs (Rel-5) to TS 25.104	TSG-RAN WG4	Approved
RP-020486	CRs (Rel-5) to TS 25.105	TSG-RAN WG4	Approved
RP-020487	CRs (Rel-5) to TS 25.133	TSG-RAN WG4	Approved
RP-020488	CRs (Rel-5) to TS 25.141	TSG-RAN WG4	Approved
RP-020489	CRs (Rel-5) to TS 25.142	TSG-RAN WG4	Approved
RP-020490	CRs (Rel-5) to TS 25.102, TS 25.105, 25.142 and 34.124 "Update of the reference to ITU rec. SM329-9"	TSG-RAN WG4	Approved
RP-020491	CRs (Rel-5) to TS 25.105 and TS25.142 "Correction of the ACS and DR requirements (3.84 Mcps and 1.28 Mcps)"	TSG-RAN WG4	Approved
RP-020492	CRs (Rel-5) to TS 25.104 and TS 25.141 "Correction of the CPICH measurement"	TSG-RAN WG4	Approved
RP-020493	CRs (Rel-5) to TS 25.105 and TS25.142 "Applicability of requirements in case of devices external to the BS"	TSG-RAN WG4	Approved
RP-020494	CRs (Rel-5) to TS 25.105 and TS25.142 "Correction of the total power dynamic range definition"	TSG-RAN WG4	Approved
RP-020495	CRs (Rel-5) for WI "High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing"	TSG-RAN WG4	Approved
RP-020496	Status report for SI "FS on UTRA Wideband Distribution System (WDS)"	Rapporteur	Noted
RP-020497	Letter from T1P1 on submission of 3GPP specifications for revision 3 of ITU R M 1457 (T1P1/2002-091)	T1P1	Noted
RP-020498	Status report for WI "Improvement of RRM across RNS and RNS/BSS"	Rapporteur	Noted
RP-020499	Status report for WI "UTRAN Sharing in Connected Mode"	Rapporteur	Noted
RP-020500	Status report for SI "SRNS relocation procedure enhancement"	Rapporteur	Noted
RP-020501	3GPP Work Plan	MCC	Noted
RP-020502	3GPP Work Plan [Slide Presentation]	MCC	Noted
RP-020503	Proposed WI "Satellite based broadcast layer using UTRA FDD W-CDMA technology"	Alcatel	Rejected
RP-020504	Proposed SI "Analysis of higher chip rates for UTRAN evolution"	IPWireless	Revised in RP-020673
RP-020505	Status report for WI "HSDPA RF"	Rapporteur	Noted
RP-020506	Status report for WI "Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods"	Rapporteur	Noted
RP-020507	Status report for SI "Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD"	Rapporteur	Withdrawn
RP-020508	TR25.888v1.0.0 (" Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD")	Rapporteur	Noted
RP-020509	Handling of GERAN specific future inputs to TSG RAN WG3 specifications	ARIB	Endorsed
RP-020510	Status Report for WI "Improving Receiver Performance Requirements for the FDD UE"	Rapporteur	Noted
RP-020511	Status report for SI "Analysis of OFDM for UTRAN enhancement"	Rapporteur	Noted
RP-020512	Early UE handling proposal	NEC	Noted
RP-020513	WI description for IMEI-SV based solution	NEC	Noted

Tdoc	Title	Source	Decision
RP-020514	Early UE handling using 4.10 solution	NEC	Noted
RP-020515	LS on Additional RAB configurations in 34.108 (R2-022422 to TSG RAN)	TSG RAN WG2	Noted
RP-020516	Handling of R99 corrections in RAN3	Nortel /Vodafone	Noted
RP-020517	Contribution to ITU-R WP8F on the update of Recommendation ITU-R M.1457 to Revision 3	ITU-R Ad Hoc	Approved
RP-020518	Reminder for the OPs on the compliance with ITU-R procedures as it relates to Revision 3 of Recommendation ITU-R M.1457	ITU-R Ad Hoc	Approved
RP-020519	Contribution to ITU-R WP8F on the update of Recommendation ITU-R IMT.UNWANT-MS [M.1581]	ITU-R Ad Hoc	Approved
RP-020520	Contribution to ITU-R WP8F on the Revision of Recommendation ITU-R M.1079.	ITU-R Ad Hoc	Approved
RP-020521	CR 010 to 21.101: "Correction to list of specs"	MCC	Noted
RP-020522	CR 008 to 21.102: "Correction to list of specs"	MCC	Noted
RP-020523	CR 001 to 21.103: "Correction to list of specs"	MCC	Noted
RP-020524	CR 008 to 01.01: "GSM Release 1999 specifications.	MCC	Noted
RP-020525	CR 005 to 41.102: "GSM Release 4 Specifications"	MCC	Noted
RP-020526	CR 001 to 41.103: "Correction to list of specs"	MCC	Noted
RP-020527	Specs status list prior to TSGs#17	MCC	Noted
RP-020528	List of specs / releases	MCC	Noted
RP-020529	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.133 and TS 25.214 "Definition of valid range for Rx-Tx time difference"	TSG RAN WG4, TSG RAN WG1	Approved
RP-020530	CRs (Rel-4 and Rel-5 Category A) to TS 25.141 and TS 25.215 "Transmitted carrier power measurement correction"	TSG RAN WG4, TSG RAN WG1	Approved
RP-020531	Response to "Liaison Statement on lur-g" (R3-022152 to GERAN WG2, cc TSG RAN)	TSG-RAN WG3	Noted
RP-020532	LS on Additional RAB configurations in 34.108 (R1-02-1126 to TSG RAN)	TSG-RAN WG1	Noted
RP-020533	Status Report for SI "Fast Cell Selection for HS-DSCH"	Rapporteur	Noted
RP-020534	Report from WG2 chairman to TSG-RAN	TSG-RAN WG2 Chairman	Noted
RP-020535	Supplement (List of all agreed CRs) to Report from WG2 chairman to TSG-RAN	TSG-RAN WG2	Noted
RP-020536	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.301	TSG-RAN WG2	Revised in RP-020671
RP-020537	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.302	TSG-RAN WG2	Revised in RP-020665
RP-020538	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.321	TSG-RAN WG2	Approved
RP-020539	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.322	TSG-RAN WG2	Approved 5)
RP-020540	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.323	TSG-RAN WG2	Approved
RP-020541	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (1)	TSG-RAN WG2	Approved
RP-020542	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (2)	TSG-RAN WG2	Approved
RP-020543	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (3)	TSG-RAN WG2	Approved
RP-020544	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (4)	TSG-RAN WG2	Approved
RP-020545	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (5)	TSG-RAN WG2	Approved
RP-020546	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (6)	TSG-RAN WG2	Approved 6)
RP-020547	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (7)	TSG-RAN WG2	Approved

Tdoc	Title	Source	Decision
RP-020548	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (8)	TSG-RAN WG2	Approved
RP-020549	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.331 (9)	TSG-RAN WG2	Approved 7)
RP-020550	Agreed CR (Release '99) to TS 34.109	TSG-RAN WG2	Approved
RP-020551	Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.322	TSG-RAN WG2	Approved
RP-020552	Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.323	TSG-RAN WG2	Approved
RP-020553	Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.331	TSG-RAN WG2	Approved
RP-020554	Agreed CRs (Rel-4 and Rel-5 category A) to TS 25.844	TSG-RAN WG2	Approved
RP-020555	Agreed CRs (Rel-5) to TS 25.306	TSG-RAN WG2	Approved
RP-020556	Agreed CRs (Rel-5) to TS 25.321	TSG-RAN WG2	Approved
RP-020557	Agreed CRs (Rel-5) to TS 25.331	TSG-RAN WG2	Approved 9)
RP-020558	Agreed and linked CRs (Release '99 and Rel-4/Rel-5 category A) on SFN-SFN type 1 measurement to TS 25.331, 25.215 and 25.225	TSG-RAN WG2	Approved
RP-020559	Agreed and linked CRs (Rel-4 and Rel-5 category A) on Synchronisation for 1.28 Mcps TDD to TS 25.331 and 25.221	TSG-RAN WG2	Approved
RP-020560	Status Report WI "Improved usage of downlink resource in FDD for CCTrCHs of dedicated type	Rapporteur	Noted
RP-020561	Status Report WI "Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods"	Rapporteur	Withdrawn
RP-020562	Status Report "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN"	Rapporteur	Noted
RP-020563	Status Report "Enhancements to OTDOA Positioning using advanced blanking methods"	Rapporteur	Noted
RP-020564	CRs (R'99 and Rel-4/Rel-5 category A to TS 25.331) for decision "Unit at Layer 3 filtering" (Proposal #1)	TSG-RAN WG2	Withdrawn
RP-020565	Proposal to handle early mobiles	Alcatel, Fujitsu, Orange	Noted
RP-020566	Report from WG1 chairman to TSG-RAN	TSG-RAN WG1 Chairman	Noted
RP-020567	Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN	TSG-RAN WG1 Chairman	Noted
RP-020568	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.212	TSG-RAN WG1	Approved
RP-020569	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.221	TSG-RAN WG1	Approved
RP-020570	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.222	TSG-RAN WG1	Approved
RP-020571	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.211 and TS 25.214 on "Reversal of unwanted corrections resulting from CR 25.211-122 & CR 25.214-226"	TSG-RAN WG1	Approved
RP-020572	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.221 and TS 25.224 on "Corrections to transmit diversity mode for TDD beacon-function physical channels"	TSG-RAN WG1	Approved
RP-020573	CRs (Rel-4 and Rel-5 Category A) to TS 25.212	TSG-RAN WG1	Approved
RP-020574	CRs (Rel-4 and Rel-5 Category A) to TS 25.214	TSG-RAN WG1	Approved
RP-020575	CRs (Rel-4 and Rel-5 Category A) to TS 25.215	TSG-RAN WG1	Approved
RP-020576	CRs (Rel-4 and Rel-5 Category A) to TS 25.221	TSG-RAN WG1	Approved
RP-020577	CRs (Rel-4 and Rel-5 Category A) to TS 25.224	TSG-RAN WG1	Approved
RP-020578	CRs (Rel-4 and Rel-5 Category A) to TS 25.225	TSG-RAN WG1	Approved

Tdoc	Title	Source	Decision
RP-020579	CRs (Rel-4 and Rel-5 Category A) to TS 25.221 and TS 25.224 on "Corrections to transmit diversity mode for TDD beacon-function physical channels"	TSG-RAN WG1	Approved
RP-020580	CRs (Rel-5) to TS 25.201	TSG-RAN WG1	Approved
RP-020581	CRs (Rel-5) to TS 25.211	TSG-RAN WG1	Approved
RP-020582	CRs (Rel-5) to TS 25.212	TSG-RAN WG1	Approved 1)
RP-020583	CRs (Rel-5) to TS 25.213	TSG-RAN WG1	Approved
RP-020584	CRs (Rel-5) to TS 25.214	TSG-RAN WG1	Approved
RP-020585	CRs (Rel-5) to TS 25.222	TSG-RAN WG1	Approved
RP-020586	CRs (Rel-5) to TS 25.224	TSG-RAN WG1	Approved
RP-020587	CRs (Rel-5) to TS 25.211 and TS 25.214 on "Inclusion of closed loop transmit diversity for HSDPA"	TSG-RAN WG1	Approved
RP-020588	CRs (Rel-5) to TS 25.211 and TS 25.214 on "HS-DPCCH timing correction"	TSG-RAN WG1	Approved
RP-020589	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.214, TS 25.423 and TS 25.433 on "Correction of maximum power adjustment in case of compressed mode"	TSG-RAN WG1	Approved
RP-020590	CRs (Rel-5) to TS 25.214 and TS 25.331 on "TX diversity on radio links in the active set"	TSG-RAN WG1	Approved
RP-020591	CRs (Rel-5) to TS 25.211 on "Phase reference for HSDPA",	TSG-RAN WG1	Approved
RP-020592	CRs (Rel-5) to TS 25.213 on "Power offset values for HS-DPCCH"	TSG-RAN WG1	Approved
RP-020593	Updated SI Description "Analysis of OFDM for UTRAN enhancement"	Rapporteur	Revised in RP-020672
RP-020594	Status report WI "Multiple Input Multiple Output antennas (MIMO)"	Rapporteur	Noted
RP-020595	CRs (R'99 and Rel-4/Rel-5 category A to TS 25.331) for decision "Unit at Layer 3 filtering" (Proposal #2)	TSG-RAN WG2	Withdrawn
RP-020596	Status report WI "RAB support enhancements"	Rapporteur	Noted
RP-020597	Report from WG3 chairman to TSG-RAN	TSG-RAN WG3 chairman	Noted
RP-020598	Supplement (List of all agreed CRs) to Report from WG3 chairman to TSG-RAN	TSG-RAN WG3	Noted
RP-020599	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.410	TSG-RAN WG3	Approved
RP-020600	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.413	TSG-RAN WG3	Approved
RP-020601	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.415	TSG-RAN WG3	Approved
RP-020602	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.419	TSG-RAN WG3	Approved
RP-020603	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423	TSG-RAN WG3	Approved
RP-020604	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.433	TSG-RAN WG3	Approved
RP-020605	CRs (Rel-4 and Rel-5 Category A) to TS 25.401	TSG-RAN WG3	Approved
RP-020606	CRs (Rel-4 and Rel-5 Category A) to TS 25.413	TSG-RAN WG3	Approved
RP-020607	CRs (Rel-4 and Rel-5 Category A) to TS 25.423	TSG-RAN WG3	Approved
RP-020608	CRs (Rel-4 and Rel-5 Category A) to TS 25.430	TSG-RAN WG3	Approved
RP-020609	CRs (Rel-4 and Rel-5 Category A) to TS 25.433	TSG-RAN WG3	Approved
RP-020610	CRs (Rel-4 and Rel-5 Category A) to TS 25.435	TSG-RAN WG3	Approved
RP-020611	CRs (Rel-4 and Rel-5 Category A) for Addition of new reference on SCTP checksum	TSG-RAN WG3	Approved
RP-020612	CRs (Rel-4 and Rel-5 Category A) for WG4 Reference Corrections	TSG-RAN WG3	Approved
RP-020613	CRs (Rel-5 only) for Uplink Synchronisation in 1.28Mcps TDD	TSG-RAN WG3	Approved
RP-020614	CRs (Rel-5 only) for Rx Timing Deviation (TDD) corrections	TSG-RAN WG3	Approved

Tdoc	Title	Source	Decision
RP-020615	CRs (Rel-5 only) for Quality IEs for the UE Positioning measurements	TSG-RAN WG3	Approved
RP-020616	CRs (Rel-5 only) for Clarification of the Common Measurement Reporting procedure	TSG-RAN WG3	Approved
RP-020617	CRs (Rel-5 only) for Correction for inconsistency in length of TFCI field 2	TSG-RAN WG3	Approved
RP-020618	CRs (Rel-5 only) for Clarification for the initial power of the power balancing (Pinit)	TSG-RAN WG3	Approved
RP-020619	CRs (Rel-5 only) for Removal of BLER for HS-DSCH	TSG-RAN WG3	Approved
RP-020620	CRs (Rel-5 only) for DSCH Initial Credits	TSG-RAN WG3	Approved 10)
RP-020621	CRs (Rel-5 only) for HS-SCCH power offset	TSG-RAN WG3	Revised 11)
RP-020622	CRs (Rel-5 only) for Change of Maximum Number of HS-SCCH Codes	TSG-RAN WG3	Approved
RP-020623	CRs (Rel-5 only) for RL Parameter Update Procedure, CQI and ACK/NACK Repetition Factor and Power Offset and k-value	TSG-RAN WG3	Approved 12)
RP-020624	CRs (Rel-5 only) for GERAN specific impacts on the lu-cs interface	TSG-RAN WG3	Approved 13)
RP-020625	CRs (Rel-5 only) for UTRAN sharing in connected mode	TSG-RAN WG3	Approved
RP-020626	CRs (Rel-5 only) for Introduction of lur-g according set 1 in LS R3-022152	TSG-RAN WG3	Withdrawn
RP-020627	CRs (Rel-5 only) for Introduction of lur-g according set 2 in LS R3-022152	TSG-RAN WG3	Approved
RP-020628	Single CRs (Rel-5 only) for different topics	TSG-RAN WG3	Approved 14)
RP-020629	Single CRs (Rel-5 only) for different topics, each CR linked to other TSGs than TSG RAN	TSG-RAN WG3	Approved 15)
RP-020630	Linked CRs on TS 25.433 (RAN WG3) and TS 25.331 (RAN WG2) on IP_offset correction	TSG-RAN WG3	Approved
RP-020631	CRs to 25.331 "SRNS relocation with integrity"	Alcatel	Approved
RP-020632	Early UE handling	Lucent	Noted
RP-020633	Response to "Liaison Statement on lur-g" (GP-022810 to TSG RAN, RAN2 & RAN3, Response to:R3-022152)	TSG GERAN	Noted
RP-020634	Status report for SI "Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD"	Rapporteur	Noted
RP-020635	Units of layer 3 filtering	Motorola	Noted
RP-020636	Status report WG4	TSG RAN WG4 Chairman	Noted
RP-020637	CRs to 25.322 on "Corrections to RLC reset procedure and length indicators"	Nokia & LG electronics	Approved
RP-020638	Status Report of WI "Improvement of Inter-frequency and inter-system	Rapporteur	Noted
RP-020639	Status Report for SI "Radio Link Performance Enhancements" to TSG	Rapporteur	Noted
RP-020640	Status Report for WI "Beamforming Enhancements" to TSG	Rapporteur	Noted
RP-020641	Layer 3 filtering considerations	Qualcomm	Noted
RP-020642	Rel-4 Protocols backwards compatibility	Nokia	Endorsed
RP-020643	CR on 25.413 Signalling enhancements for GERAN luMode LCS	Nokia	Approved
RP-020644	Proposed WI on SRNC Relocation enhancements	Nokia	Postponed
RP-020645	CR 158 Rev 1 on 25.212 Specification of H-RNTI to UE identify mapping	Siemens	Approved
RP-020646	Revised CR to 25.423 DSCH Initial credits	NEC	Approved
RP-020647	Revised CR to 25.433 CQI and ACK/NACK Repetition factor and power offset and k-value	NEC	Approved
RP-020648	Revised CR to 25.423 CQI and ACK/NACK Repetition factor and power offset and k-value	NEC	Approved
RP-020649	Revised CR to 25.423 HS-SCCH Power offset	NEC	Approved
RP-020650	Revised CR to 25.433 HS-SCCH Power offset	NEC	Approved

Tdoc	Title	Source	Decision
RP-020651	Revised CR to 25.423 partial dedicated measurement reporting	NEC	Approved
RP-020652	Revised CR to 25.423 required enhancements due to GERAN specific impacts on the lu-cs interface	Siemens	Approved
RP-020653	LS regarding a proposed contribution to ITU-R WP8F	TSG RAN	Approved
RP-020654	CRs to 25.331 "SRNS relocation with integrity" (revision)	Alcatel	Approved
RP-020655	CR 1651 Rev 1 on 25.331 Physical layer IES for HSDPA	Siemens	Revised in RP-020662
RP-020656	Elaboration of UE Vendor name plus time stamp	Ericsson	Noted
RP-020657	Study Item Report 25.889 Draft version 1.1.0	Rapporteur	Noted
RP-020658	Study Item Description Uplink Enhancements for Dedicated Transport Channels	Ericsson, Nokia, Motorola, AT&T Wireless Services	Approved
RP-020659	Proposed SI, Distributed RAN Architecture	Nokia	Revised in RP-020670
RP-020660	LS on new RAN TR collecting example RABS	Ericsson	Revised in RP-020664
RP-020661	Draft TR "Typical examples of RABs and RBs supported by UTRA"	Nortel Networks	Revised in RP-020663
RP-020662	CR 1651 Rev 2 on 25.331 Physical layer IES for HSDPA	Ericsson	Approved
RP-020663	Draft TR "Typical examples of RABs and RBs supported by UTRA"	Nortel Networks	Noted
RP-020664	LS on new RAN TR collecting example RABS	Ericsson	Approved
RP-020665	Agreed CRs (Release '99 and Rel-4/Rel-5 category A) to TS 25.302	TSG RAN WG2	Approved
RP-020666	Status of early UE handling with proposed SI	Vodafone, Nortel	Approved
RP-020667	Way forward on layer 3 filtering	Qualcomm, Nokia, Motorola, Panasonic	Approved
RP-020668	Answer to RAN 4 LS on the scope of the study item "Viable deployment of UTRA in additional and diverse spectrum arrangements"	TSG RAN	Approved
RP-020669	Handling of GERAN specific future inputs to TSG RAN WG3 specifications (update)	ARIB	Approved
RP-020670	Proposed SI, Distributed RAN Architecture	Nokia	Approved
RP-020671	Revision of CR67 to 25.301	Nortel Networks	Approved
RP-020672	Revised SI Description "Analysis of OFDM for UTRAN enhancement"	Rapporteur	Approved
RP-020673	Revised Proposed SI "Analysis of higher chip rates for UTRAN evolution"	IPWireless	Approved

Annex C: List of CRs presented at RAN #17

This table lists all the CRs presented at RAN#17; not all were approved, some of them were revised or withdrawn.

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.214	292	-	R99	F	RP-020529	R1-02-1158	approved	Correction of reference linked to approval of CR 25.133-469r1	3.10.0	3.11.0	R1	TEI
25.214	293	-	Rel-4	A	RP-020529	R1-02-1158	approved	Correction of reference linked to approval of CR 25.133-470	4.4.0	4.5.0	R1	TEI
25.214	294	-	Rel-5	A	RP-020529	R1-02-1158	approved	Correction of reference linked to approval of CR 25.133-471	5.1.0	5.2.0	R1	TEI
25.215	119	4	Rel-5	A	RP-020530	R1-02-1006	approved	Transmitted carrier power measurement correction	5.0.0	5.1.0	R1	TEI4
25.215	122	-	Rel-4	F	RP-020530	R1-02-1006	approved	Transmitted carrier power measurement correction	4.4.0	4.5.0	R1	TEI4
25.215	126	-	R99	F	RP-020558	R1-02-1080	approved	Correction of UE SFN-SFN type 1 measurement	3.10.0	3.11.0	R1	TEI
25.215	127	-	Rel-4	A	RP-020558	R1-02-1080	approved	Correction of UE SFN-SFN type 1 measurement	4.4.0	4.5.0	R1	TEI
25.215	128	-	Rel-5	A	RP-020558	R1-02-1080	approved	Correction of UE SFN-SFN type 1 measurement	5.0.0	5.1.0	R1	TEI
25.225	059	-	R99	F	RP-020558	R1-02-1113	approved	Correction of UE SFN-SFN type 1 measurement for TDD	3.10.0	3.11.0	R1	TEI
25.225	060	-	Rel-4	A	RP-020558	R1-02-1113	approved	Correction of UE SFN-SFN type 1 measurement for TDD	4.4.0	4.5.0	R1	TEI
25.225	061	-	Rel-5	A	RP-020558	R1-02-1113	approved	Correction of UE SFN-SFN type 1 measurement for TDD	5.1.0	5.2.0	R1	TEI
25.221	091	1	Rel-4	F	RP-020559	R1-02-0985	approved	Corrections to channelisation code mapping for 1.28 Mcps TDD	4.5.0	4.6.0	R1	LCRTDD-phys
25.221	092	1	Rel-5	A	RP-020559	R1-02-0985	approved	Corrections to channelisation code mapping for 1.28 Mcps TDD	5.1.0	5.2.0	R1	LCRTDD-phys
25.212	153	2	R99	F	RP-020568	R1-02-1175	approved	Clarification of the definition of layer 1 transport channel numbers	3.10.0	3.11.0	R1	TEI
25.212	154	2	Rel-4	A	RP-020568	R1-02-1175	approved	Clarification of the definition of layer 1 transport channel numbers	4.5.0	4.6.0	R1	TEI
25.212	155	2	Rel-5	A	RP-020568	R1-02-1175	approved	Clarification of the definition of layer 1 transport channel numbers	5.1.0	5.2.0	R1	TEI
25.221	088	1	R99	F	RP-020569	R1-02-0989	approved	Corrections to channelisation code mappings for 3.84 Mcps TDD	3.10.0	3.11.0	R1	TEI
25.221	089	1	Rel-4	A	RP-020569	R1-02-0989	approved	Corrections to channelisation code mappings for 3.84 Mcps TDD	4.5.0	4.6.0	R1	TEI
25.221	090	1	Rel-5	A	RP-020569	R1-02-0989	approved	Corrections to channelisation code mappings for 3.84 Mcps TDD	5.1.0	5.2.0	R1	TEI

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.222	095	1	R99	F	RP-020570	R1-02-1176	approved	Clarification of the definition of layer 1 transport channel numbers	3.9.0	3.10.0	R1	TEI
25.222	096	1	Rel-4	A	RP-020570	R1-02-1176	approved	Clarification of the definition of layer 1 transport channel numbers	4.4.0	4.5.0	R1	TEI
25.222	097	1	Rel-5	A	RP-020570	R1-02-1176	approved	Clarification of the definition of layer 1 transport channel numbers	5.1.0	5.2.0	R1	TEI
25.211	162	1	R99	F	RP-020571	R1-02-1097	approved	Reversal of unwanted corrections resulting from CR 25.211-122	3.11.0	3.12.0	R1	TEI
25.211	163	-	Rel-4	A	RP-020571	R1-02-1097	approved	Reversal of unwanted corrections resulting from CR 25.211-122	4.5.0	4.6.0	R1	TEI
25.211	164	-	Rel-5	A	RP-020571	R1-02-1097	approved	Reversal of unwanted corrections resulting from CR 25.211-122	5.1.0	5.2.0	R1	TEI
25.214	270	1	R99	F	RP-020571	R1-02-1097	approved	Reversal of unwanted corrections resulting from CR 25.211-122 & CR 25.214-226	3.10.0	3.11.0	R1	TEI
25.214	271	-	Rel-4	A	RP-020571	R1-02-1097	approved	Reversal of unwanted corrections resulting from CR 25.211-122 & CR 25.214-226	4.4.0	4.5.0	R1	TEI
25.214	272	-	Rel-5	A	RP-020571	R1-02-1097	approved	Reversal of unwanted corrections resulting from CR 25.211-122 & CR 25.214-226	5.1.0	5.2.0	R1	TEI
25.221	095	2	R99	F	RP-020572	R1-02-1135	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	3.10.0	3.11.0	R1	TEI
25.221	096	2	Rel-4	A	RP-020572	R1-02-1135	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	4.5.0	4.6.0	R1	TEI
25.221	097	2	Rel-5	A	RP-020572	R1-02-1135	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	5.1.0	5.2.0	R1	TEI
25.224	092	2	R99	F	RP-020572	R1-02-1135	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	3.10.0	3.11.0	R1	TEI
25.224	093	2	Rel-4	A	RP-020572	R1-02-1135	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	4.5.0	4.6.0	R1	TEI
25.224	094	2	Rel-5	A	RP-020572	R1-02-1135	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	5.1.0	5.2.0	R1	TEI
25.212	156	-	Rel-4	D	RP-020573	R1-02-1072	approved	Numbering Corrections	4.5.0	4.6.0	R1	TEI4
25.212	157	-	Rel-5	A	RP-020573	R1-02-1072	approved	Numbering Corrections	5.1.0	5.2.0	R1	TEI4
25.214	281	1	Rel-4	F	RP-020574	R1-02-1128	approved	Enhanced DSCH power control parameter name change	4.4.0	4.5.0	R1	RInImp-DSCHsho
25.214	282	1	Rel-5	A	RP-020574	R1-02-1128	approved	Enhanced DSCH power control parameter name change	5.1.0	5.2.0	R1	RInImp-DSCHsho
25.215	120	-	Rel-4	F	RP-020575	R1-02-0893	approved	Measurements for observed time difference to GSM cell	4.4.0	4.5.0	R1	TEI4
25.215	121	-	Rel-5	A	RP-020575	R1-02-0893	approved	Measurements for observed time difference to GSM	5.0.0	5.1.0	R1	TEI4

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
								cell				
25.215	129	-	Rel-4	F	RP-020575	R1-02-1153	approved	Compressed mode limitation	4.4.0	4.5.0	R1	TEI4
25.215	130	-	Rel-5	A	RP-020575	R1-02-1153	approved	Compressed mode limitation	5.0.0	5.1.0	R1	TEI4
25.221	093	-	Rel-4	F	RP-020576	R1-02-0890	approved	Correction to S-CCPCH description for 1.28 Mcps TDD	4.5.0	4.6.0	R1	LCRTDD-Phys
25.221	094	-	Rel-5	A	RP-020576	R1-02-0890	approved	Correction to S-CCPCH description for 1.28 Mcps TDD	5.1.0	5.2.0	R1	LCRTDD-Phys
25.224	096	1	Rel-4	F	RP-020577	R1-02-1138	approved	Corrections to uplink synchronisation procedure	4.5.0	4.6.0	R1	LCRTDD-phys
25.224	097	1	Rel-5	A	RP-020577	R1-02-1138	approved	Corrections to uplink synchronisation procedure	5.1.0	5.2.0	R1	LCRTDD-phys
25.224	098	-	Rel-4	F	RP-020577	R1-02-1054	approved	Correction to the PRACH open loop power control procedure for 1.28 Mcps TDD	4.5.0	4.6.0	R1	LCRTDD-phys
25.224	099	-	Rel-5	A	RP-020577	R1-02-1054	approved	Correction to the PRACH open loop power control procedure for 1.28 Mcps TDD	5.1.0	5.2.0	R1	LCRTDD-phys
25.225	052	-	Rel-4	F	RP-020578	R1-02-1058	approved	Correction to SFN-SFN Type 2 measurement	4.4.0	4.5.0	R1	TEI4
25.225	053	-	Rel-5	A	RP-020578	R1-02-1058	approved	Correction to SFN-SFN Type 2 measurement	5.1.0	5.2.0	R1	TEI4
25.221	103	1	Rel-4	F	RP-020579	R1-02-1183	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	4.5.0	4.6.0	R1	LCRTDD-phys
25.221	104	2	Rel-5	A	RP-020579	R1-02-1183	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	5.1.0	5.2.0	R1	LCRTDD-phys
25.224	100	1	Rel-4	F	RP-020579	R1-02-1183	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	4.5.0	4.6.0	R1	LCRTDD-phys
25.224	101	1	Rel-5	A	RP-020579	R1-02-1183	approved	Corrections to transmit diversity mode for TDD beacon-function physical channels	5.1.0	5.2.0	R1	LCRTDD-phys
25.201	018	-	Rel-5	F	RP-020580	R1-02-0882	approved	Correction on the description of TS and layer	5.1.0	5.2.0	R1	TEI5
25.211	168	1	Rel-5	D	RP-020581	R1-02-1143	approved	Numbering corrections	5.1.0	5.2.0	R1	TEI5
25.211	172	-	Rel-5	F	RP-020581	R1-02-1122	approved	Physical channel mapping	5.1.0	5.2.0	R1	HSDPA-Phys
25.212	141	1	Rel-5	F	RP-020582	R1-02-0995	approved	Bit scrambling for HS-DSCH	5.1.0	5.2.0	R1	HSDPA-Phys
25.212	148	-	Rel-5	D	RP-020582	R1-02-0962	approved	Physical channel mapping for HS-DPCCH	5.1.0	5.2.0	R1	HSDPA-Phys
25.212	149	-	Rel-5	F	RP-020582	R1-02-0963	approved	HARQ bit collection	5.1.0	5.2.0	R1	HSDPA-Phys
25.212	150	1	Rel-5	F	RP-020582	R1-02-1121	approved	Coding for HS-SCCH	5.1.0	5.2.0	R1	HSDPA-Phys
25.212	151	-	Rel-5	F	RP-020582	R1-02-0941	approved	Correction to UE specific masking for HS-SCCH part1	5.1.0	5.2.0	R1	HSDPA-Phys
25.212	158	-	Rel-5	F	RP-020582	R1-02-1093	revised	Specification of H-RNTI to UE identity mapping	5.1.0	5.2.0	R1	HSDPA-Phys
25.213	058	1	Rel-5	D	RP-020583	R1-02-1144	approved	Numbering corrections	5.1.0	5.2.0	R1	TEI5
25.213	059	-	Rel-5	F	RP-020583	R1-02-1088	approved	Correction on the maximum DPDCH in Figure1	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	263	-	Rel-5	F	RP-020584	R1-02-0898	approved	Clarification of total HS-SCCH/HS-PDSCH power	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	273	2	Rel-5	F	RP-020584	R1-021194	approved	Clarification of total HS-PDSCH power in CQI reporting procedure	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	274	1	Rel-5	F	RP-020584	R1-02-1092	approved	Closed loop transmit diversity mode 2 with antenna	5.1.0	5.2.0	R1	TEI5

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
								verification				
25.214	286	1	Rel-5	D	RP-020584	R1-02-1145	approved	Numbering corrections	5.1.0	5.2.0	R1	TEI5
25.214	287	2	Rel-5	F	RP-020584	R1-02-1187	approved	Correction of CQI definition	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	296	-	Rel-5	F	RP-020584	R1-02-1172	approved	The clarification of CQI feedback parameter k value	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	298	-	Rel-5	F	RP-020584	R1-02-1193	approved	Clarification of CQI definition and reference period	5.1.0	5.2.0	R1	HSDPA-Phys
25.222	089	1	Rel-5	F	RP-020585	R1-02-0933	approved	Clarification of TFRI bits for 3.84Mcps HSDPA TDD	5.1.0	5.2.0	R1	HSDPA-Phys
25.222	091	1	Rel-5	F	RP-020585	R1-02-1094	approved	HS-SCCH corrections for TDD	5.1.0	5.2.0	R1	HSDPA-Phys
25.222	093	-	Rel-5	F	RP-020585	R1-02-1102	approved	HS-DSCH Interleaving for TDD	5.1.0	5.2.0	R1	HSDPA-Phys
25.224	091	1	Rel-5	F	RP-020586	R1-02-1171	approved	Corrections to 25.224 for HSDPA	5.1.0	5.2.0	R1	HSDPA-Phys
25.211	171	-	Rel-5	F	RP-020587	R1-02-1078	approved	Inclusion of closed loop transmit diversity for HSDPA	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	288	-	Rel-5	F	RP-020587	R1-02-1078	approved	Inclusion of closed loop transmit diversity for HSDPA	5.1.0	5.2.0	R1	HSDPA-Phys
25.211	170	1	Rel-5	F	RP-020588	R1-02-1154	approved	HS-DPCCH timing correction	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	289	-	Rel-5	F	RP-020588	R1-02-1086	approved	Correction of timing of CQI reporting	5.1.0	5.2.0	R1	HSDPA-Phys
25.214	277	-	R99	F	RP-020589	R1-02-0994	approved	Correction of maximum power adjustment in case of compressed mode	3.10.0	3.11.0	R1	TEI
25.214	278	-	Rel-4	A	RP-020589	R1-02-0994	approved	Correction of maximum power adjustment in case of compressed mode	4.4.0	4.5.0	R1	TEI
25.214	279	-	Rel-5	A	RP-020589	R1-02-0994	approved	Correction of maximum power adjustment in case of compressed mode	5.1.0	5.2.0	R1	TEI
25.211	169	-	Rel-5	F	RP-020590	R1-02-1075	approved	TX diversity on radio links in the active set	5.1.0	5.2.0	R1	TEI5
25.211	161	1	Rel-5	F	RP-020591	R1-02-1177	approved	Phase reference for HSDPA	5.1.0	5.2.0	R1	HSDPA-Phys
25.213	060	-	Rel-5	F	RP-020592	R1-02-1179	approved	Power offset values for HS-DPCCH	5.1.0	5.2.0	R1	HSDPA-Phys
25.212	158	1	Rel-5	F	RP-020645		approved	Specification of H-RNTI to UE identity mapping	5.1.0	5.2.0	R1	HSDPA-Phys
25.301	067		R99	F	RP-020536	R2-022209	revised	Clarification on RLC connection	3.10.0	3.11.0	R2	TEI
25.301	068		Rel-4	A	RP-020536	R2-022210	revised	Clarification on RLC connection	4.3.0	4.4.0	R2	TEI
25.301	069		Rel-5	A	RP-020536	R2-022211	revised	Clarification on RLC connection	5.1.0	5.2.0	R2	TEI
25.302	129		R99	F	RP-020537	R2-022345	revised	Correction of transport to physical channel mapping for TDD	3.13.0	3.14.0	R2	TEI
25.302	130		Rel-4	A	RP-020537	R2-022346	revised	Correction of transport to physical channel mapping for TDD	4.5.0	4.6.0	R2	TEI
25.302	131		Rel-5	A	RP-020537	R2-022347	revised	Correction of transport to physical channel mapping for TDD	5.1.0	5.2.0	R2	TEI
25.321	128		R99	F	RP-020538	R2-022348	approved	MAC TVM Corrections	3.12.0	3.13.0	R2	TEI
25.321	129		Rel-4	A	RP-020538	R2-022349	approved	MAC TVM Corrections	4.5.0	4.6.0	R2	TEI
25.321	130		Rel-5	A	RP-020538	R2-022350	approved	MAC TVM Corrections	5.1.0	5.2.0	R2	TEI
25.321	131		R99	F	RP-020538	R2-022351	approved	MAC header for DTCH and DCCH	3.12.0	3.13.0	R2	TEI
25.321	132		Rel-4	A	RP-020538	R2-022352	approved	MAC header for DTCH and DCCH	4.5.0	4.6.0	R2	TEI

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25.321	133		Rel-5	A	RP-020538	R2-022353	approved	MAC header for DTCH and DCCH	5.1.0	5.2.0	R2	TEI
25.322	196		R99	F	RP-020539	R2-022354	approved	Correction to the behaviour after expiration of Timer_MRW during the SDU discard with explicit signalling procedure	3.11.0	3.12.0	R2	TEI
25.322	197		Rel-4	A	RP-020539	R2-022355	approved	Correction to the behaviour after expiration of Timer_MRW during the SDU discard with explicit signalling procedure	4.5.0	4.6.0	R2	TEI
25.322	198		Rel-5	A	RP-020539	R2-022356	approved	Correction to the behaviour after expiration of Timer_MRW during the SDU discard with explicit signalling procedure	5.1.0	5.2.0	R2	TEI
25.322	199		R99	F	RP-020539	R2-022357	approved	Corrections of RLC re-transmissions	3.11.0	3.12.0	R2	TEI
25.322	200		Rel-4	A	RP-020539	R2-022358	approved	Corrections of RLC re-transmissions	4.5.0	4.6.0	R2	TEI
25.322	201		Rel-5	A	RP-020539	R2-022359	approved	Corrections of RLC re-transmissions	5.1.0	5.2.0	R2	TEI
25.322	202		R99	F	RP-020539	R2-022360	revised	Corrections to RLC RESET procedure	3.11.0	3.12.0	R2	TEI
25.322	203		Rel-4	A	RP-020539	R2-022361	revised	Corrections to RLC RESET procedure	4.5.0	4.6.0	R2	TEI
25.322	204		Rel-5	A	RP-020539	R2-022362	revised	Corrections to RLC RESET procedure	5.1.0	5.2.0	R2	TEI
25.322	205		R99	F	RP-020539	R2-022363	approved	Corrections on handling of timers during a RLC reset or re-establishment	3.11.0	3.12.0	R2	TEI
25.322	206		Rel-4	A	RP-020539	R2-022364	approved	Corrections on handling of timers during a RLC reset or re-establishment	4.5.0	4.6.0	R2	TEI
25.322	207		Rel-5	A	RP-020539	R2-022365	approved	Corrections on handling of timers during a RLC reset or re-establishment	5.1.0	5.2.0	R2	TEI
25.323	051		R99	F	RP-020540	R2-022366	approved	Mapping relation between PDCP and RLC	3.9.0	3.10.0	R2	TEI
25.323	052		Rel-4	A	RP-020540	R2-022367	approved	Mapping relation between PDCP and RLC	4.5.0	4.6.0	R2	TEI
25.323	053		Rel-5	A	RP-020540	R2-022368	approved	Mapping relation between PDCP and RLC	5.1.0	5.2.0	R2	TEI
25.331	1502	1	R99	F	RP-020541	R2-022048	approved	UE behaviour when active set cells are not included in CELL_INFO_LIST	3.11.0	3.12.0	R2	TEI
25.331	1503	1	Rel-4	A	RP-020541	R2-022049	approved	UE behaviour when active set cells are not included in CELL_INFO_LIST	4.5.0	4.6.0	R2	TEI
25.331	1504	1	Rel-5	A	RP-020541	R2-022050	approved	UE behaviour when active set cells are not included in CELL_INFO_LIST	5.1.0	5.2.0	R2	TEI
25.331	1505	1	R99	F	RP-020541	R2-022045	approved	Corrections to handling of IE "Cells for measurement"	3.11.0	3.12.0	R2	TEI
25.331	1506	1	Rel-4	A	RP-020541	R2-022046	approved	Corrections to handling of IE "Cells for measurement"	4.5.0	4.6.0	R2	TEI
25.331	1507	1	Rel-5	A	RP-020541	R2-022047	approved	Corrections to handling of IE "Cells for measurement"	5.1.0	5.2.0	R2	TEI
25.331	1508		R99	F	RP-020541	R2-021697	approved	Clarification on the use of UE radio access capability extensions	3.11.0	3.12.0	R2	TEI

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25.331	1509		Rel-4	A	RP-020541	R2-021698	approved	Clarification on the use of UE radio access capability extensions	4.5.0	4.6.0	R2	TEI
25.331	1510		Rel-5	A	RP-020541	R2-021699	approved	Clarification on the use of UE radio access capability extensions	5.1.0	5.2.0	R2	TEI
25.331	1511		R99	F	RP-020541	R2-021700	approved	Correction to RRC connection procedure	3.11.0	3.12.0	R2	TEI
25.331	1512		Rel-4	A	RP-020541	R2-021701	approved	Correction to RRC connection procedure	4.5.0	4.6.0	R2	TEI
25.331	1513		Rel-5	A	RP-020541	R2-021702	approved	Correction to RRC connection procedure	5.1.0	5.2.0	R2	TEI
25.331	1514		R99	F	RP-020541	R2-021703	approved	Correction to the variable TGPS_IDENTITY	3.11.0	3.12.0	R2	TEI
25.331	1515		Rel-4	A	RP-020541	R2-021704	approved	Correction to the variable TGPS_IDENTITY	4.5.0	4.6.0	R2	TEI
25.331	1516		Rel-5	A	RP-020541	R2-021705	approved	Correction to the variable TGPS_IDENTITY	5.1.0	5.2.0	R2	TEI
25.331	1520		R99	F	RP-020541	R2-021707	approved	Missing IEs in RLC info	3.11.0	3.12.0	R2	TEI
25.331	1521		Rel-4	A	RP-020541	R2-021603	approved	Missing IEs in RLC info	4.5.0	4.6.0	R2	TEI
25.331	1522		Rel-5	A	RP-020541	R2-021604	approved	Missing IEs in RLC info	5.1.0	5.2.0	R2	TEI
25.331	1526	1	R99	F	RP-020542	R2-021750	approved	Corrections of UE internal measurement reporting events	3.11.0	3.12.0	R2	TEI
25.331	1527	1	Rel-4	A	RP-020542	R2-021751	approved	Corrections of UE internal measurement reporting events	4.5.0	4.6.0	R2	TEI
25.331	1528	1	Rel-5	A	RP-020542	R2-021752	approved	Corrections of UE internal measurement reporting events	5.1.0	5.2.0	R2	TEI
25.331	1529	2	R99	F	RP-020542	R2-022226	approved	UE behaviour upon reception of reconfiguration	3.11.0	3.12.0	R2	TEI
25.331	1530	2	Rel-4	A	RP-020542	R2-022227	approved	UE behaviour upon reception of reconfiguration	4.5.0	4.6.0	R2	TEI
25.331	1531	2	Rel-5	A	RP-020542	R2-022228	approved	UE behaviour upon reception of reconfiguration	5.1.0	5.2.0	R2	TEI
25.331	1532		R99	F	RP-020542	R2-021719	approved	Application of integrity keys in case of a pending CN	3.11.0	3.12.0	R2	TEI
25.331	1533		Rel-4	A	RP-020542	R2-021638	approved	Application of integrity keys in case of a pending CN	4.5.0	4.6.0	R2	TEI
25.331	1534		Rel-5	A	RP-020542	R2-021639	approved	Application of integrity keys in case of a pending CN	5.1.0	5.2.0	R2	TEI
25.331	1535	1	R99	F	RP-020542	R2-022334	approved	Clarifications for Quality Measurements	3.11.0	3.12.0	R2	TEI
25.331	1536	1	Rel-4	A	RP-020542	R2-022335	approved	Clarifications for Quality Measurements	4.5.0	4.6.0	R2	TEI
25.331	1537	1	Rel-5	A	RP-020542	R2-022336	approved	Clarifications for Quality Measurements	5.1.0	5.2.0	R2	TEI
25.331	1538		R99	F	RP-020542	R2-021720	approved	Correction of DPCH constant value in TDD default radio configuration	3.11.0	3.12.0	R2	TEI
25.331	1539		Rel-4	A	RP-020542	R2-021723	approved	Correction of DPCH constant value in TDD default radio configuration	4.5.0	4.6.0	R2	TEI
25.331	1540		Rel-5	A	RP-020542	R2-021724	approved	Correction of DPCH constant value in TDD default radio configuration	5.1.0	5.2.0	R2	TEI
25.331	1541		R99	F	RP-020542	R2-021728	approved	UE internal measurement information in broadcast	3.11.0	3.12.0	R2	TEI
25.331	1542		Rel-4	A	RP-020542	R2-021729	approved	UE internal measurement information in broadcast	4.5.0	4.6.0	R2	TEI
25.331	1543		Rel-5	A	RP-020542	R2-021730	approved	UE internal measurement information in broadcast	5.1.0	5.2.0	R2	TEI
25.331	1544		R99	F	RP-020543	R2-021733	approved	Observed time difference to GSM reporting indicator	3.11.0	3.12.0	R2	TEI

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25.331	1545		Rel-4	A	RP-020543	R2-021596	approved	Observed time difference to GSM reporting indicator	4.5.0	4.6.0	R2	TEI
25.331	1546		Rel-5	A	RP-020543	R2-021597	approved	Observed time difference to GSM reporting indicator	5.1.0	5.2.0	R2	TEI
25.331	1549		R99	F	RP-020543	R2-022229	approved	Correction on Security during SRNS relocation	3.11.0	3.12.0	R2	TEI
25.331	1550		Rel-4	A	RP-020543	R2-022230	approved	Correction on Security during SRNS relocation	4.5.0	4.6.0	R2	TEI
25.331	1551		Rel-5	A	RP-020543	R2-022231	approved	Correction on Security during SRNS relocation	5.1.0	5.2.0	R2	TEI
25.331	1552		R99	F	RP-020543	R2-022232	approved	Coding of IE NC mode	3.11.0	3.12.0	R2	TEI
25.331	1553		Rel-4	A	RP-020543	R2-022233	approved	Coding of IE NC mode	4.5.0	4.6.0	R2	TEI
25.331	1554		Rel-5	A	RP-020543	R2-022234	approved	Coding of IE NC mode	5.1.0	5.2.0	R2	TEI
25.331	1555		R99	F	RP-020543	R2-022235	approved	Clarification to filtered measurement quantities	3.11.0	3.12.0	R2	TEI
25.331	1556		Rel-4	A	RP-020543	R2-022236	approved	Clarification to filtered measurement quantities	4.5.0	4.6.0	R2	TEI
25.331	1557		Rel-5	A	RP-020543	R2-022237	approved	Clarification to filtered measurement quantities	5.1.0	5.2.0	R2	TEI
25.331	1558		R99	F	RP-020543	R2-022238	approved	Inconsistency in triggering and reporting for events 1a, 1b, 1c, 1e and 1f	3.11.0	3.12.0	R2	TEI
25.331	1559		Rel-4	A	RP-020543	R2-022239	approved	Inconsistency in triggering and reporting for events 1a, 1b, 1c, 1e and 1f	4.5.0	4.6.0	R2	TEI
25.331	1560		Rel-5	A	RP-020543	R2-022240	approved	Inconsistency in triggering and reporting for events 1a, 1b, 1c, 1e and 1f	5.1.0	5.2.0	R2	TEI
25.331	1561	1	R99	F	RP-020543	R2-022402	approved	Optional and Mandatory fields in Measurement Control	3.11.0	3.12.0	R2	TEI
25.331	1562	1	Rel-4	A	RP-020543	R2-022403	approved	Optional and Mandatory fields in Measurement Control	4.5.0	4.6.0	R2	TEI
25.331	1563	1	Rel-5	A	RP-020543	R2-022404	approved	Optional and Mandatory fields in Measurement Control	5.1.0	5.2.0	R2	TEI
25.331	1564		R99	F	RP-020544	R2-022244	approved	Clarifications to Reporting Cell Status	3.11.0	3.12.0	R2	TEI
25.331	1565		Rel-4	A	RP-020544	R2-022245	approved	Clarifications to Reporting Cell Status	4.5.0	4.6.0	R2	TEI
25.331	1566		Rel-5	A	RP-020544	R2-022246	approved	Clarifications to Reporting Cell Status	5.1.0	5.2.0	R2	TEI
25.331	1567		R99	F	RP-020544	R2-022247	approved	Clarification to minimum SF	3.11.0	3.12.0	R2	TEI
25.331	1568		Rel-4	A	RP-020544	R2-022248	approved	Clarification to minimum SF	4.5.0	4.6.0	R2	TEI
25.331	1569		Rel-5	A	RP-020544	R2-022249	approved	Clarification to minimum SF	5.1.0	5.2.0	R2	TEI
25.331	1570		R99	F	RP-020544	R2-022250	approved	Clarifications to inter-frequency measurements	3.11.0	3.12.0	R2	TEI
25.331	1571		Rel-4	A	RP-020544	R2-022251	approved	Clarifications to inter-frequency measurements	4.5.0	4.6.0	R2	TEI
25.331	1572		Rel-5	A	RP-020544	R2-022252	approved	Clarifications to inter-frequency measurements	5.1.0	5.2.0	R2	TEI
25.331	1576	2	R99	F	RP-020544	R2-022447	approved	Ciphering when HO to UMTS of signalling only connection	3.11.0	3.12.0	R2	TEI
25.331	1577	2	Rel-4	A	RP-020544	R2-022448	approved	Ciphering when HO to UMTS of signalling only connection	4.5.0	4.6.0	R2	TEI
25.331	1578	2	Rel-5	A	RP-020544	R2-022449	approved	Ciphering when HO to UMTS of signalling only	5.1.0	5.2.0	R2	TEI

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								connection				
25.331	1579		R99	F	RP-020544	R2-022265	approved	Inter RAT handover from UTRAN	3.11.0	3.12.0	R2	TEI
25.331	1580		Rel-4	A	RP-020544	R2-022266	approved	Inter RAT handover from UTRAN	4.5.0	4.6.0	R2	TEI
25.331	1581		Rel-5	A	RP-020544	R2-022267	approved	Inter RAT handover from UTRAN	5.1.0	5.2.0	R2	TEI
25.331	1582		R99	F	RP-020544	R2-022259	approved	Correction to Cell Update procedure with cause Radio link failure	3.11.0	3.12.0	R2	TEI
25.331	1583		Rel-4	A	RP-020544	R2-022260	approved	Correction to Cell Update procedure with cause Radio link failure	4.5.0	4.6.0	R2	TEI
25.331	1584		Rel-5	A	RP-020544	R2-022261	approved	Correction to Cell Update procedure with cause Radio link failure	5.1.0	5.2.0	R2	TEI
25.331	1585		R99	F	RP-020545	R2-022262	approved	Correction to the handling of IE "UTRAN DRX cycle length coefficient" in CELL/URA UPDATE procedure	3.11.0	3.12.0	R2	TEI
25.331	1586		Rel-4	A	RP-020545	R2-022263	approved	Correction to the handling of IE "UTRAN DRX cycle length coefficient" in CELL/URA UPDATE procedure	4.5.0	4.6.0	R2	TEI
25.331	1587		Rel-5	A	RP-020545	R2-022264	approved	Correction to the handling of IE "UTRAN DRX cycle length coefficient" in CELL/URA UPDATE procedure	5.1.0	5.2.0	R2	TEI
25.331	1588		R99	F	RP-020545	R2-022268	approved	Correction to RLC unrecoverable error in CELL_DCH state	3.11.0	3.12.0	R2	TEI
25.331	1589		Rel-4	A	RP-020545	R2-022269	approved	Correction to RLC unrecoverable error in CELL_DCH state	4.5.0	4.6.0	R2	TEI
25.331	1590		Rel-5	A	RP-020545	R2-022270	approved	Correction to RLC unrecoverable error in CELL_DCH state	5.1.0	5.2.0	R2	TEI
25.331	1591		R99	F	RP-020545	R2-022271	approved	Use of scrambling change when activating CM pattern using SF/2 by MEASUREMENT CONTROL	3.11.0	3.12.0	R2	TEI
25.331	1592		Rel-4	A	RP-020545	R2-022272	approved	Use of scrambling change when activating CM pattern using SF/2 by MEASUREMENT CONTROL	4.5.0	4.6.0	R2	TEI
25.331	1593		Rel-5	A	RP-020545	R2-022273	approved	Use of scrambling change when activating CM pattern using SF/2 by MEASUREMENT CONTROL	5.1.0	5.2.0	R2	TEI
25.331	1594		R99	F	RP-020545	R2-022274	approved	Actions when optional IE "Maximum allowed UL TX power" is missing	3.11.0	3.12.0	R2	TEI
25.331	1595		Rel-4	A	RP-020545	R2-022275	approved	Actions when optional IE "Maximum allowed UL TX power" is missing	4.5.0	4.6.0	R2	TEI
25.331	1596		Rel-5	A	RP-020545	R2-022276	approved	Actions when optional IE "Maximum allowed UL TX power" is missing	5.1.0	5.2.0	R2	TEI
25.331	1600		R99	F	RP-020545	R2-022280	approved	Clarification on the IE "Frequency Info"	3.11.0	3.12.0	R2	TEI
25.331	1601		Rel-4	A	RP-020545	R2-022281	approved	Clarification on the IE "Frequency Info"	4.5.0	4.6.0	R2	TEI

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25.331	1602		Rel-5	A	RP-020545	R2-022282	approved	Clarification on the IE "Frequency Info"	5.1.0	5.2.0	R2	TEI
25.331	1603		R99	F	RP-020546	R2-022283	approved	Correction of RNTI used in PUSCH capacity request and physical shared channel allocation request	3.11.0	3.12.0	R2	TEI
25.331	1604		Rel-4	A	RP-020546	R2-022284	approved	Correction of RNTI used in PUSCH capacity request and physical shared channel allocation request	4.5.0	4.6.0	R2	TEI
25.331	1605		Rel-5	A	RP-020546	R2-022285	approved	Correction of RNTI used in PUSCH capacity request and physical shared channel allocation request	5.1.0	5.2.0	R2	TEI
25.331	1606		R99	F	RP-020546	R2-022286	approved	Correction to allowed logical channel list choice for RACH transport channels	3.11.0	3.12.0	R2	TEI
25.331	1607		Rel-4	A	RP-020546	R2-022287	approved	Correction to allowed logical channel list choice for RACH transport channels	4.5.0	4.6.0	R2	TEI
25.331	1608		Rel-5	A	RP-020546	R2-022288	approved	Correction to allowed logical channel list choice for RACH transport channels	5.1.0	5.2.0	R2	TEI
25.331	1609		R99	F	RP-020546	R2-022289	revised	SRNS relocation containers corrections	3.11.0	3.12.0	R2	TEI
25.331	1610		Rel-4	A	RP-020546	R2-022290	revised	SRNS relocation containers corrections	4.5.0	4.6.0	R2	TEI
25.331	1611		Rel-5	A	RP-020546	R2-022291	revised	SRNS relocation containers corrections	5.1.0	5.2.0	R2	TEI
25.331	1612		R99	F	RP-020546	R2-022292	approved	DCH quality target	3.11.0	3.12.0	R2	TEI
25.331	1613		Rel-4	A	RP-020546	R2-022293	approved	DCH quality target	4.5.0	4.6.0	R2	TEI
25.331	1614		Rel-5	A	RP-020546	R2-022294	approved	DCH quality target	5.1.0	5.2.0	R2	TEI
25.331	1615		R99	F	RP-020546	R2-022295	approved	Handling of variables CELL_INFO_LIST and MEASUREMENT_IDENTITY(2)	3.11.0	3.12.0	R2	TEI
25.331	1616		Rel-4	A	RP-020546	R2-022296	approved	Handling of variables CELL_INFO_LIST and MEASUREMENT_IDENTITY(2)	4.5.0	4.6.0	R2	TEI
25.331	1617		Rel-5	A	RP-020546	R2-022297	approved	Handling of variables CELL_INFO_LIST and MEASUREMENT_IDENTITY(2)	5.1.0	5.2.0	R2	TEI
25.331	1618	1	R99	F	RP-020546	R2-022389	approved	Correction of secondary CCPCH selection and PRACH selectionv	3.11.0	3.12.0	R2	TEI
25.331	1619	1	Rel-4	A	RP-020546	R2-022390	approved	Correction of secondary CCPCH selection and PRACH selection	4.5.0	4.6.0	R2	TEI
25.331	1620	1	Rel-5	A	RP-020546	R2-022391	approved	Correction of secondary CCPCH selection and PRACH selection	5.1.0	5.2.0	R2	TEI
25.331	1621		R99	F	RP-020547	R2-022301	approved	RRC TVM Corrections	3.11.0	3.12.0	R2	TEI
25.331	1622		Rel-4	A	RP-020547	R2-022302	approved	RRC TVM Corrections	4.5.0	4.6.0	R2	TEI
25.331	1623		Rel-5	A	RP-020547	R2-022303	approved	RRC TVM Corrections	5.1.0	5.2.0	R2	TEI
25.331	1624		R99	F	RP-020547	R2-022304	approved	Correction of Transmission Gap Distance semantics description	3.11.0	3.12.0	R2	TEI

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25.331	1625		Rel-4	A	RP-020547	R2-022305	approved	Correction of Transmission Gap Distance semantics description	4.5.0	4.6.0	R2	TEI
25.331	1626		Rel-5	A	RP-020547	R2-022306	approved	Correction of Transmission Gap Distance semantics description	5.1.0	5.2.0	R2	TEI
25.331	1627		R99	F	RP-020547	R2-022307	approved	Active Set Update and simultaneous reconfiguration	3.11.0	3.12.0	R2	TEI
25.331	1628		Rel-4	A	RP-020547	R2-022308	approved	Active Set Update and simultaneous reconfiguration	4.5.0	4.6.0	R2	TEI
25.331	1629		Rel-5	A	RP-020547	R2-022309	approved	Active Set Update and simultaneous reconfiguration	5.1.0	5.2.0	R2	TEI
25.331	1630		R99	F	RP-020547	R2-022310	approved	UE behaviour following RLC size change	3.11.0	3.12.0	R2	TEI
25.331	1631		Rel-4	A	RP-020547	R2-022311	approved	UE behaviour following RLC size change	4.5.0	4.6.0	R2	TEI
25.331	1632		Rel-5	A	RP-020547	R2-022312	approved	UE behaviour following RLC size change	5.1.0	5.2.0	R2	TEI
25.331	1633		R99	F	RP-020547	R2-022313	approved	RRC SN in uplink	3.11.0	3.12.0	R2	TEI
25.331	1634		Rel-4	A	RP-020547	R2-022314	approved	RRC SN in uplink	4.5.0	4.6.0	R2	TEI
25.331	1635		Rel-5	A	RP-020547	R2-022315	approved	RRC SN in uplink	5.1.0	5.2.0	R2	TEI
25.331	1636		R99	F	RP-020547	R2-022316	approved	Multiplexing of Tr mode RBs of different CN domains on the same transport channel	3.11.0	3.12.0	R2	TEI
25.331	1637		Rel-4	A	RP-020547	R2-022317	approved	Multiplexing of Tr mode RBs of different CN domains on the same transport channel	4.5.0	4.6.0	R2	TEI
25.331	1638		Rel-5	A	RP-020547	R2-022318	approved	Multiplexing of Tr mode RBs of different CN domains on the same transport channel	5.1.0	5.2.0	R2	TEI
25.331	1639		R99	F	RP-020548	R2-022319	approved	Security clarifications	3.11.0	3.12.0	R2	TEI
25.331	1640		Rel-4	A	RP-020548	R2-022320	approved	Security clarifications	4.5.0	4.6.0	R2	TEI
25.331	1641		Rel-5	A	RP-020548	R2-022321	approved	Security clarifications	5.1.0	5.2.0	R2	TEI
25.331	1642		R99	F	RP-020548	R2-022322	approved	Correction to the actions of Out of service area and In service area	3.11.0	3.12.0	R2	TEI
25.331	1643		Rel-4	A	RP-020548	R2-022323	approved	Correction to the actions of Out of service area and In service area	4.5.0	4.6.0	R2	TEI
25.331	1644		Rel-5	A	RP-020548	R2-022324	approved	Correction to the actions of Out of service area and In service area	5.1.0	5.2.0	R2	TEI
25.331	1645		R99	F	RP-020548	R2-022325	approved	TVM pending time after trigger and initial conditions	3.11.0	3.12.0	R2	TEI
25.331	1646		Rel-4	A	RP-020548	R2-022326	approved	TVM pending time after trigger and initial conditions	4.5.0	4.6.0	R2	TEI
25.331	1647		Rel-5	A	RP-020548	R2-022327	approved	TVM pending time after trigger and initial conditions	5.1.0	5.2.0	R2	TEI
25.331	1648	1	R99	F	RP-020548	R2-022442	approved	Handling of Downlink information for each RL in reconfiguration messages	3.11.0	3.12.0	R2	TEI
25.331	1649	1	Rel-4	A	RP-020548	R2-022443	approved	Handling of Downlink information for each RL in reconfiguration messages	4.5.0	4.6.0	R2	TEI
25.331	1650	1	Rel-5	A	RP-020548	R2-022444	approved	Handling of Downlink information for each RL in reconfiguration messages	5.1.0	5.2.0	R2	TEI
25.331	1653		R99	F	RP-020548	R2-022369	approved	Nested Cell Updates and SRNS Relocation	3.11.0	3.12.0	R2	TEI
25.331	1654		Rel-4	A	RP-020548	R2-022370	approved	Nested Cell Updates and SRNS Relocation	4.5.0	4.6.0	R2	TEI

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25.331	1655		Rel-5	A	RP-020548	R2-022371	approved	Nested Cell Updates and SRNS Relocation	5.1.0	5.2.0	R2	TEI
25.331	1668		R99	F	RP-020548	R2-022405	approved	Corrections to security	3.11.0	3.12.0	R2	TEI
25.331	1669		Rel-4	A	RP-020548	R2-022406	approved	Corrections to security	4.5.0	4.6.0	R2	TEI
25.331	1670		Rel-5	A	RP-020548	R2-022407	approved	Corrections to security	5.1.0	5.2.0	R2	TEI
25.331	1671	1	R99	F	RP-020549	R2-022433	revised	SRNS relocation with integrity	3.11.0	3.12.0	R2	TEI
25.331	1672		Rel-4	A	RP-020549	R2-022410	revised	SRNS relocation with integrity	4.5.0	4.6.0	R2	TEI
25.331	1673		Rel-5	A	RP-020549	R2-022411	revised	SRNS relocation with integrity	5.1.0	5.2.0	R2	TEI
25.331	1674		R99	F	RP-020549	R2-022427	approved	Reception of MEASUREMENT CONTROL in state CELL_FACH	3.11.0	3.12.0	R2	TEI
25.331	1675		Rel-4	A	RP-020549	R2-022428	approved	Reception of MEASUREMENT CONTROL in state CELL_FACH	4.5.0	4.6.0	R2	TEI
25.331	1676		Rel-5	A	RP-020549	R2-022429	approved	Reception of MEASUREMENT CONTROL in state CELL_FACH	5.1.0	5.2.0	R2	TEI
25.331	1677		R99	F	RP-020549	R2-022430	approved	Unsupported configuration	3.11.0	3.12.0	R2	TEI
25.331	1678		Rel-4	A	RP-020549	R2-022431	approved	Unsupported configuration	4.5.0	4.6.0	R2	TEI
25.331	1679		Rel-5	A	RP-020549	R2-022432	approved	Unsupported configuration	5.1.0	5.2.0	R2	TEI
25.331	1680		R99	F	RP-020549	R2-022434	approved	Handover corrections	3.11.0	3.12.0	R2	TEI
25.331	1681		Rel-4	A	RP-020549	R2-022435	approved	Handover corrections	4.5.0	4.6.0	R2	TEI
25.331	1682		Rel-5	A	RP-020549	R2-022436	approved	Handover corrections	5.1.0	5.2.0	R2	TEI
34.109	019		R99	F	RP-020550	R2-022408	approved	Correction to figure 5.3.2.6.1.1	3.6.0	3.7.0	R2	TEI
25.322	208		Rel-4	F	RP-020551	R2-022374	approved	Corrections on indication of SDU transmission result	4.5.0	4.6.0	R2	TEI4
25.322	209		Rel-5	A	RP-020551	R2-022377	approved	Corrections on indication of SDU transmission result	5.1.0	5.2.0	R2	TEI4
25.323	054		Rel-4	F	RP-020552	R2-022378	approved	Corrections to RFC3095 operation	4.5.0	4.6.0	R2	RANimp-RABSE
25.323	055		Rel-5	A	RP-020552	R2-022379	approved	Corrections to RFC3095 operation	5.1.0	5.2.0	R2	RANimp-RABSE
25.323	056		Rel-4	F	RP-020552	R2-022380	approved	Mismatches between Rel4 and R99 in PDCP	4.5.0	4.6.0	R2	TEI4
25.323	057		Rel-5	A	RP-020552	R2-022381	approved	Mismatches between Rel4 and R99 in PDCP	5.1.0	5.2.0	R2	TEI4
25.331	1656		Rel-4	F	RP-020553	R2-022382	approved	Corrections to open loop power control for 1.28 Mcps TDD	4.5.0	4.6.0	R2	LCRTDD-L23
25.331	1657		Rel-5	A	RP-020553	R2-022383	approved	Corrections to open loop power control for 1.28 Mcps TDD	5.1.0	5.2.0	R2	LCRTDD-L23
25.331	1658		Rel-4	F	RP-020553	R2-022384	approved	RLC entity re-establishment during SRNS relocation	4.5.0	4.6.0	R2	TEI4
25.331	1659		Rel-5	A	RP-020553	R2-022385	approved	RLC entity re-establishment during SRNS relocation	5.1.0	5.2.0	R2	TEI4
25.331	1662		Rel-4	F	RP-020553	R2-022395	approved	Reintroduction of IE "SRB delay" in Rel-4 ASN.1	4.5.0	4.6.0	R2	TEI4
25.331	1663		Rel-5	A	RP-020553	R2-022396	approved	Reintroduction of IE "SRB delay" in Rel-4 ASN.1	5.1.0	5.2.0	R2	TEI4
25.331	1664		Rel-4	F	RP-020553	R2-022397	approved	Corrections to ASN.1 for SRNC relocation container	4.5.0	4.6.0	R2	LCRTDD-L23

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25.331	1665		Rel-5	A	RP-020553	R2-022398	approved	Corrections to ASN.1 for SRNC relocation container	5.1.0	5.2.0	R2	LCRTDD-L23
25.331	1666		Rel-4	F	RP-020553	R2-022393	approved	Unused values in ASN.1	4.5.0	4.6.0	R2	TEI4
25.331	1667		Rel-5	A	RP-020553	R2-022394	approved	Unused values in ASN.1	5.1.0	5.2.0	R2	TEI4
25.844	005		Rel-4	F	RP-020554	R2-022399	approved	Corrections to RFC3095 operation	4.2.0	4.3.0	R2	RANimp-RABSE
25.306	047		Rel-5	F	RP-020555	R2-022438	approved	HS-PDSCH capability definition and QPSK-only UE categories	5.1.0	5.2.0	R2	HSDPA-Phys
25.306	048		Rel-5	F	RP-020555	R2-022445	approved	Mandatory support for Dedicated Pilot for Channel Estimation	5.1.0	5.2.0	R2	TEI5
25.321	123		Rel-5	F	RP-020556	R2-022339	approved	Optional use of a maximum transmission delay for MAC-hs SDUs	5.1.0	5.2.0	R2	HSDPA-L23
25.321	124		Rel-5	F	RP-020556	R2-022340	approved	MAC-hs: Scheduler and HARQ entity functions for TSN	5.1.0	5.2.0	R2	HSDPA-L23
25.321	125		Rel-5	F	RP-020556	R2-022342	approved	Corrections on C/T field definition for HS-DSCH	5.1.0	5.2.0	R2	HSDPA-L23
25.321	126		Rel-5	F	RP-020556	R2-022343	approved	MAC re-ordering entity	5.1.0	5.2.0	R2	HSDPA-L23
25.321	127		Rel-5	F	RP-020556	R2-022344	approved	Limiting of number of PDUs in a TTI	5.1.0	5.2.0	R2	HSDPA-L23
25.321	134		Rel-5	F	RP-020556	R2-022439	approved	Signalling of Transport Block Sizes for HS-DSCH	5.1.0	5.2.0	R2	HSDPA-L23
25.321	135		Rel-5	F	RP-020556	R2-022440	approved	Transport block size signalling 3.84 Mcps TDD	5.1.0	5.2.0	R2	HSDPA-L23
25.321	136		Rel-5	F	RP-020556	R2-022441	approved	Transport block size signalling 1.28 Mcps TDD	5.1.0	5.2.0	R2	HSDPA-L23
25.331	1547		Rel-5	F	RP-020557	R2-021738	approved	Correction on Radio link timing	5.1.0	5.2.0	R2	TEI5
25.331	1651		Rel-5	F	RP-020557	R2-022337	revised	Physical layer IEs for HSDPA	5.1.0	5.2.0	R2	HSDPA-L23
25.331	1652		Rel-5	F	RP-020557	R2-022338	approved	Transport channel information elements for HSDPA	5.1.0	5.2.0	R2	HSDPA-L23
25.331	1684		Rel-5	F	RP-020557	R2-022446	approved	Mandatory support for Dedicated Pilot for Channel Estimation	5.1.0	5.2.0	R2	TEI5
25.331	1573	1	R99	F	RP-020558	R2-022392	approved	Problems with "SFN-SFN observed time difference" measurement	3.11.0	3.12.0	R2	TEI
25.331	1574	1	Rel-4	A	RP-020558	R2-022416	approved	Problems with "SFN-SFN observed time difference" measurement	4.5.0	4.6.0	R2	TEI
25.331	1575	1	Rel-5	A	RP-020558	R2-022417	approved	Problems with "SFN-SFN observed time difference" measurement	5.1.0	5.2.0	R2	TEI
25.331	1660		Rel-4	F	RP-020559	R2-022387	approved	Corrections to Synchronisation for 1.28 Mcps TDD	4.5.0	4.6.0	R2	LCRTDD-L23
25.331	1661		Rel-5	A	RP-020559	R2-022388	approved	Corrections to Synchronisation for 1.28 Mcps TDD	5.1.0	5.2.0	R2	LCRTDD-L23
25.331	1517		R99	F	RP-020564	R2-021706	rejected	Unit at L3 filtering (proposal 1)	3.11.0		R2	TEI
25.331	1518		Rel-4	A	RP-020564	R2-021599	rejected	Unit at L3 filtering (proposal 1)	4.5.0		R2	TEI
25.331	1519		Rel-5	A	RP-020564	R2-021600	rejected	Unit at L3 filtering (proposal 1)	5.1.0		R2	TEI
25.331	1683		Rel-5	F	RP-020590	R2-022437	approved	TX diversity on radio links in the active set	5.1.0	5.2.0	R2	TEI5
25.331	1517	1	R99	F	RP-020595	R2-022105	rejected	Unit at L3 filtering (proposal 2)	3.11.0		R2	TEI
25.331	1518	1	Rel-4	A	RP-020595	R2-022106	rejected	Unit at L3 filtering (proposal 2)	4.5.0		R2	TEI
25.331	1519	1	Rel-5	A	RP-020595	R2-022107	rejected	Unit at L3 filtering (proposal 2)	5.1.0		R2	TEI

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25.331	1597	1	R99	F	RP-020630	R2-022419	approved	IP_offset correction	3.11.0	3.12.0	R2	TEI
25.331	1598	1	Rel-4	A	RP-020630	R2-022420	approved	IP_offset correction	4.5.0	4.6.0	R2	TEI
25.331	1599	1	Rel-5	A	RP-020630	R2-022421	approved	IP_offset correction	5.1.0	5.2.0	R2	TEI
25.331	1671	2	R99	F	RP-020631		approved	SRNS relocation with integrity	3.11.0	3.12.0	R2	TEI
25.331	1672	1	Rel-4	A	RP-020631		approved	SRNS relocation with integrity	4.5.0	4.6.0	R2	TEI
25.331	1673	1	Rel-5	A	RP-020631		approved	SRNS relocation with integrity	5.1.0	5.2.0	R2	TEI
25.322	202	1	R99	F	RP-020637		approved	Corrections to RLC RESET procedure	3.11.0	3.12.0	R2	TEI
25.322	203	1	Rel-4	A	RP-020637		approved	Corrections to RLC RESET procedure	4.5.0	4.6.0	R2	TEI
25.322	204	1	Rel-5	A	RP-020637		approved	Corrections to RLC RESET procedure	5.1.0	5.2.0	R2	TEI
25.331	1609	1	R99	F	RP-020654		approved	SRNS relocation containers corrections	3.11.0	3.12.0	R2	TEI
25.331	1610	1	Rel-4	A	RP-020654		approved	SRNS relocation containers corrections	4.5.0	4.6.0	R2	TEI
25.331	1611	1	Rel-5	A	RP-020654		approved	SRNS relocation containers corrections	5.1.0	5.2.0	R2	TEI
25.331	1651	1	Rel-5	F	RP-020655		revised	Physical layer IEs for HSDPA	5.1.0	5.2.0	R2	HSDPA-L23
25.331	1651	2	Rel-5	F	RP-020662		approved	Physical layer IEs for HSDPA	5.1.0	5.2.0	R2	HSDPA-L23
25.302	129	1	R99	F	RP-020665	R2-022345	approved	Correction of transport to physical channel mapping for TDD	3.13.0		R2	TEI
25.302	130	-	Rel-4	A	RP-020665	R2-022346	approved	Correction of transport to physical channel mapping for TDD	4.5.0		R2	TEI
25.302	131	-	Rel-5	A	RP-020665	R2-022347	approved	Correction of transport to physical channel mapping for TDD	5.1.0		R2	TEI
25.301	067	1	R99	F	RP-020671	R2-022209	approved	Clarification on RLC connection	3.10.0		R2	TEI
25.301	068	1	Rel-4	A	RP-020671	R2-022210	approved	Clarification on RLC connection	4.3.0		R2	TEI
25.301	069	1	Rel-5	A	RP-020671	R2-022211	approved	Clarification on RLC connection	5.1.0		R2	TEI
25.423	698	1	R99	F	RP-020589	R3-022044	approved	Replacing all occurrences of PSIR(k) by dPcurr in 25.423	3.10.0		R3	TEI
25.423	699	1	Rel-4	A	RP-020589	R3-022045	approved	Replacing all occurrences of PSIR(k) by dPcurr in 25.423	4.5.0		R3	TEI
25.423	700	1	Rel-5	A	RP-020589	R3-022046	approved	Replacing all occurrences of PSIR(k) by dPcurr in 25.423	5.2.0		R3	TEI
25.433	719	1	R99	F	RP-020589	R3-022047	approved	Replacing all occurrences of PSIR(k) by dPcurr in 25.433	3.10.0		R3	TEI
25.433	720	1	Rel-4	A	RP-020589	R3-022048	approved	Replacing all occurrences of PSIR(k) by dPcurr in 25.433	4.5.0		R3	TEI
25.433	721	1	Rel-5	A	RP-020589	R3-022049	approved	Replacing all occurrences of PSIR(k) by dPcurr in 25.433	5.1.0		R3	TEI
25.410	040	-	R99	F	RP-020599	R3-021834	approved	Inclusion of RANAP message in RNC initiated SCCP Connection Request	3.7.0		R3	TEI
25.410	041	-	Rel-4	A	RP-020599	R3-021835	approved	Inclusion of RANAP message in RNC initiated SCCP Connection Request	4.4.0		R3	TEI

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25.410	042	-	Rel-5	A	RP-020599	R3-021836	approved	Inclusion of RANAP message in RNC initiated SCCP Connection Request	5.1.0		R3	TEI
25.413	482	2	R99	F	RP-020600	R3-022093	approved	Handling of security information at relocation	3.10.0		R3	TEI
25.413	483	2	Rel-4	A	RP-020600	R3-022094	approved	Handling of security information at relocation	4.5.0		R3	TEI
25.413	484	2	Rel-5	A	RP-020600	R3-022095	approved	Handling of security information at relocation	5.1.0		R3	TEI
25.413	493	1	R99	F	RP-020600	R3-022057	approved	Codec change during SRNS relocation	3.10.0		R3	TEI
25.413	494	1	Rel-4	A	RP-020600	R3-022058	approved	Codec change during SRNS relocation	4.5.0		R3	TEI
25.413	495	1	Rel-5	A	RP-020600	R3-022059	approved	Codec change during SRNS relocation	5.1.0		R3	TEI
25.413	507	1	R99	F	RP-020600	R3-022060	approved	Correction to RANAP cause value range	3.10.0		R3	TEI
25.413	508	1	Rel-4	A	RP-020600	R3-022061	approved	Correction to RANAP cause value range	4.5.0		R3	TEI
25.413	509	1	Rel-5	A	RP-020600	R3-022062	approved	Correction to RANAP cause value range	5.1.0		R3	TEI
25.415	112	-	R99	F	RP-020601	R3-021840	approved	Guaranteed bit rate in the lu User Plane	3.b.0		R3	TEI
25.415	113	-	Rel-4	A	RP-020601	R3-021841	approved	Guaranteed bit rate in the lu User Plane	4.5.0		R3	TEI
25.415	114	-	Rel-5	A	RP-020601	R3-021842	approved	Guaranteed bit rate in the lu User Plane	5.1.0		R3	TEI
25.419	104	1	R99	F	RP-020602	R3-022128	approved	Correction to the ASN.1 Coding: Criticality Information is missing from "Interface Elementary Procedure List"	3.9.0		R3	TEI
25.419	105	1	Rel-4	A	RP-020602	R3-022129	approved	Correction to the ASN.1 Coding: Criticality Information is missing from "Interface Elementary Procedure List"	4.5.1		R3	TEI
25.419	106	1	Rel-5	A	RP-020602	R3-022130	approved	Correction to the ASN.1 Coding: Criticality Information is missing from "Interface Elementary Procedure List"	5.1.0		R3	TEI
25.423	703	2	R99	F	RP-020603	R3-022172	approved	Correction to the Error Indication procedure	3.10.0		R3	TEI
25.423	704	2	Rel-4	A	RP-020603	R3-022173	approved	Correction to the Error Indication procedure	4.5.0		R3	TEI
25.423	705	2	Rel-5	A	RP-020603	R3-022174	approved	Correction to the Error Indication procedure	5.2.0		R3	TEI
25.423	718	1	R99	F	RP-020603	R3-022154	approved	Correction to Compressed Mode in RL Addition Failure	3.10.0		R3	TEI
25.423	719	1	Rel-4	A	RP-020603	R3-022155	approved	Correction to Compressed Mode in RL Addition Failure	4.5.0		R3	TEI
25.423	720	1	Rel-5	A	RP-020603	R3-022156	approved	Correction to Compressed Mode in RL Addition Failure	5.2.0		R3	TEI
25.433	737	1	R99	F	RP-020604	R3-022161	approved	Handling of conflicting specification text	3.10.0		R3	TEI
25.433	738	1	Rel-4	A	RP-020604	R3-022162	approved	Handling of conflicting specification text	4.5.0		R3	TEI
25.433	739	1	Rel-5	A	RP-020604	R3-022163	approved	Handling of conflicting specification text	5.1.0		R3	TEI
25.401	055	1	Rel-5	A	RP-020605	R3-022025	approved	Clarification on ALCAP Identifiers	5.3.0		R3	ETRAN-IPtrans
25.401	058	-	Rel-4	F	RP-020605	R3-021980	approved	Correction of ALCAP Identifiers	4.4.0		R3	ETRAN-IPtrans
25.413	480	-	Rel-4	F	RP-020606	R3-021837	approved	Erroneous criticality in DATA VOLUME REPORT REQUEST a.o.	4.5.0		R3	TEI4

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25.413	481	-	Rel-5	A	RP-020606	R3-021838	approved	Erroneous criticality in DATA VOLUME REPORT REQUEST a.o.	5.1.0		R3	TEI4
25.413	503	1	Rel-5	A	RP-020606	R3-022097	approved	New cause value for RAB release request	5.1.0		R3	TEI4
25.413	511	-	Rel-4	F	RP-020606	R3-022098	approved	New cause value for RAB release request	4.5.0		R3	TEI4
25.413	512	-	Rel-4	F	RP-020606	R3-022099	approved	LCS alignment with stage 2	4.5.0		R3	TEI4
25.413	513	-	Rel-5	A	RP-020606	R3-022100	approved	LCS alignment with stage 2	5.1.0		R3	TEI4
25.423	674	-	Rel-4	F	RP-020607	R3-021843	approved	Correction of Criticality of RL set information in Dedicated Measurement initiation	4.5.0		R3	TEI4
25.423	675	-	Rel-5	A	RP-020607	R3-021844	approved	Correction of Criticality of RL set information in Dedicated Measurement initiation	5.2.0		R3	TEI4
25.423	680	-	Rel-4	F	RP-020607	R3-021849	approved	Correction to procedure text of DCH Rate Control for modified DCHs	4.5.0		R3	TEI4
25.423	681	-	Rel-5	A	RP-020607	R3-021850	approved	Correction to procedure text of DCH Rate Control for modified DCHs	5.2.0		R3	TEI4
25.423	693	4	Rel-4	F	RP-020607	R3-022177	approved	RNSAP Procedures alignment to NBAP and other corrections	4.5.0		R3	TEI4
25.423	694	2	Rel-5	A	RP-020607	R3-022178	approved	RNSAP Procedures alignment to NBAP and other corrections	5.2.0		R3	TEI4
25.423	695	2	Rel-4	F	RP-020607	R3-022141	approved	Handling of Common measurement of neighbor cell information elements	4.5.0		R3	TEI4
25.423	696	2	Rel-5	A	RP-020607	R3-022142	approved	Handling of Common measurement of neighbor cell information elements	5.2.0		R3	TEI4
25.423	715	-	Rel-4	F	RP-020607	R3-022010	approved	Clarification of the DCH rate coding	4.5.0		R3	TEI4
25.423	716	1	Rel-5	A	RP-020607	R3-022074	approved	Clarification of the DCH rate coding	5.2.0		R3	TEI4
25.430	034	-	Rel-4	F	RP-020608	R3-021862	approved	TDD number of PICH Correction	4.3.0		R3	TEI4
25.430	035	-	Rel-5	A	RP-020608	R3-021863	approved	TDD number of PICH Correction	5.1.0		R3	TEI4
25.433	732	2	Rel-4	F	RP-020609	R3-022143	approved	Modification of PICH Parameters LCR TDD	4.5.0		R3	LCRTDD-lublur
25.433	733	2	Rel-5	A	RP-020609	R3-022144	approved	Modification of PICH Parameters LCR TDD	5.1.0		R3	LCRTDD-lublur
25.433	740	1	Rel-4	F	RP-020609	R3-022175	approved	Correction to the specification of Optional IEs	4.5.0		R3	TEI4
25.433	741	1	Rel-5	A	RP-020609	R3-022176	approved	Correction to the specification of Optional IEs	5.1.0		R3	TEI4
25.435	085	-	Rel-4	F	RP-020610	R3-021890	approved	Correction on Paging Indication bitmap	4.4.0		R3	LCRTDD-lublur
25.435	086	-	Rel-5	A	RP-020610	R3-021891	approved	Correction on Paging Indication bitmap	5.1.0		R3	LCRTDD-lublur
25.412	011	1	Rel-5	A	RP-020611	R3-022027	approved	Addition of new reference on SCTP checksum	5.0.0		R3	TEI4
25.412	012	1	Rel-4	F	RP-020611	R3-022026	approved	Addition of new reference on SCTP checksum	4.0.0		R3	TEI4
25.422	012	1	Rel-5	A	RP-020611	R3-022029	approved	Addition of new reference on SCTP checksum	5.0.0		R3	TEI4
25.422	013	1	Rel-4	F	RP-020611	R3-022028	approved	Addition of new reference on SCTP checksum	4.1.1		R3	TEI4
25.426	026	1	Rel-5	A	RP-020611	R3-022031	approved	Addition of new reference on SCTP checksum	5.1.0		R3	TEI4
25.426	027	1	Rel-4	F	RP-020611	R3-022030	approved	Addition of new reference on SCTP checksum	4.3.0		R3	TEI4
25.432	003	1	Rel-5	A	RP-020611	R3-022032	approved	Addition of new reference on SCTP checksum	5.0.1		R3	TEI4

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25.423	690	-	Rel-4	F	RP-020612	R3-021859	approved	WG4 Reference Corrections	4.5.0		R3	TEI4
25.423	691	-	Rel-5	A	RP-020612	R3-021860	approved	WG4 Reference Corrections	5.2.0		R3	TEI4
25.433	705	-	Rel-4	F	RP-020612	R3-021864	approved	WG4 Reference Corrections	4.5.0		R3	TEI4
25.433	706	-	Rel-5	A	RP-020612	R3-021865	approved	WG4 Reference Corrections	5.1.0		R3	TEI4
25.423	706	2	Rel-4	F	RP-020613	R3-022157	approved	Uplink Synchronisation in 1.28Mcps TDD	4.5.0		R3	LCRTDD-lublur
25.423	707	2	Rel-5	A	RP-020613	R3-022158	approved	Uplink Synchronisation in 1.28Mcps TDD	5.2.0		R3	LCRTDD-lublur
25.433	728	2	Rel-4	F	RP-020613	R3-022159	approved	Uplink Synchronisation in 1.28Mcps TDD	4.5.0		R3	LCRTDD-lublur
25.433	729	2	Rel-5	A	RP-020613	R3-022160	approved	Uplink Synchronisation in 1.28Mcps TDD	5.1.0		R3	LCRTDD-lublur
25.423	676	-	Rel-4	F	RP-020614	R3-021845	approved	Rx Timing Deviation (TDD) corrections	4.5.0		R3	TEI4
25.423	677	1	Rel-5	A	RP-020614	R3-022052	approved	Rx Timing Deviation (TDD) corrections	5.2.0		R3	TEI4
25.433	707	-	Rel-4	F	RP-020614	R3-021866	approved	Rx Timing Deviation (TDD) corrections	4.5.0		R3	TEI4
25.433	708	-	Rel-5	A	RP-020614	R3-021867	approved	Rx Timing Deviation (TDD) corrections	5.1.0		R3	TEI4
25.423	721	-	Rel-4	F	RP-020615	R3-022135	approved	Quality IEs for the UE Positioning measurements	4.5.0		R3	TEI4
25.423	722	-	Rel-5	A	RP-020615	R3-022136	approved	Quality IEs for the UE Positioning measurements	5.2.0		R3	TEI4
25.433	743	-	Rel-4	F	RP-020615	R3-022137	approved	Quality IEs for the UE Positioning measurements	4.5.0		R3	TEI4
25.433	744	-	Rel-5	A	RP-020615	R3-022138	approved	Quality IEs for the UE Positioning measurements	5.1.0		R3	TEI4
25.423	678	-	Rel-4	F	RP-020616	R3-021847	approved	Clarification of the Common Measurement Reporting procedure	4.5.0		R3	TEI4
25.423	679	1	Rel-5	A	RP-020616	R3-022053	approved	Clarification of the Common Measurement Reporting procedure	5.2.0		R3	TEI4
25.433	709	-	Rel-4	F	RP-020616	R3-021868	approved	Clarification of the Common Measurement Reporting procedure	4.5.0		R3	TEI4
25.433	710	-	Rel-5	A	RP-020616	R3-021869	approved	Clarification of the Common Measurement Reporting procedure	5.1.0		R3	TEI4
25.423	689	1	Rel-5	F	RP-020617	R3-022124	approved	Correction for inconsistency in length of TFCI field 2	5.2.0		R3	RInImp-DSCHhsp
25.433	717	1	Rel-5	F	RP-020617	R3-022125	approved	Correction for inconsistency in length of TFCI field 2	5.1.0		R3	RInImp-DSCHhsp
25.423	685	-	Rel-5	F	RP-020618	R3-021854	approved	Clarification for the initial power of the power balancing (Pinit)	5.2.0		R3	TEI5
25.433	715	1	Rel-5	F	RP-020618	R3-022122	approved	Clarification for the initial power of the power balancing (Pinit)	5.1.0		R3	TEI5
25.423	688	-	Rel-5	F	RP-020619	R3-021857	approved	Removal of BLER for HS-DSCH	5.2.0		R3	HSDPA-lublur
25.433	716	-	Rel-5	F	RP-020619	R2-021875	approved	Removal of BLER for HS-DSCH	5.1.0		R3	HSDPA-lublur
25.423	687	-	Rel-5	F	RP-020620	R3-021856	revised	DSCH Initial Credits	5.2.0		R3	TEI5
25.425	053	-	Rel-5	F	RP-020620	R3-021861	approved	DSCH Initial Credits	5.1.0		R3	TEI5
25.423	717	-	Rel-5	F	RP-020621	R3-022117	revised	HS-SCCH power offset	5.2.0		R3	HSDPA-lublur
25.433	742	-	Rel-5	F	RP-020621	R3-022118	revised	HS-SCCH power offset	5.1.0		R3	HSDPA-lublur
25.423	683	-	Rel-5	F	RP-020622	R3-021852	approved	Change of Maximum Number of HS-SCCH Codes	5.2.0		R3	HSDPA-lublur

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25.433	714	-	Rel-5	F	RP-020622	R3-021873	approved	Change of Maximum Number of HS-SCCH Codes	5.1.0		R3	HSDPA-lublur
25.423	682	2	Rel-5	F	RP-020623	R3-022112	revised	CQI and ACK/NACK Repetition Factor and Power Offset and k-value	5.2.0		R3	HSDPA-lublur
25.423	701	1	Rel-5	F	RP-020623	R3-022104	approved	RL Parameter Update Procedure	5.2.0		R3	HSDPA-lublur
25.433	713	2	Rel-5	F	RP-020623	R3-022111	revised	CQI and ACK/NACK Repetition factor and Power Offset and k-value	5.1.0		R3	HSDPA-lublur
25.433	725	1	Rel-5	F	RP-020623	R3-022106	approved	RL Parameter Update Procedure	5.1.0		R3	HSDPA-lublur
25.413	506	2	Rel-5	B	RP-020624	R3-022119	approved	GERAN specific impacts on the lu-cs interface	5.1.0		R3	TEI5
25.423	684	1	Rel-5	F	RP-020624	R3-022126	revised	Required enhancements due to GERAN specific impacts on the lu-cs interface	5.2.0		R3	TEI5
25.401	057	1	Rel-5	B	RP-020625	R3-022121	approved	Introduction of the Access Control Function: SNA	5.3.0		R3	NETSHARE
25.413	504	2	Rel-5	B	RP-020625	R3-022171	approved	Shared Networks in connected mode – Information Transfer	5.1.0		R3	NETSHARE
25.423	702	1	Rel-5	B	RP-020625	R3-022134	approved	Introduction of Shared Network Area information support	5.2.0		R3	NETSHARE
25.401	060	-	Rel-5	F	RP-020626	R3-022079	withdrawn	Introduction of lur-g with scope modification	5.3.0		R3	TEI5
25.420	029	1	Rel-5	F	RP-020626	R3-022148	withdrawn	Introduction of lur-g with scope modification	5.0.0		R3	TEI5
25.421	002	-	Rel-5	F	RP-020626	R3-022081	withdrawn	Introduction of lur-g with scope modification	5.0.0		R3	TEI5
25.422	014	-	Rel-5	F	RP-020626	R3-022082	withdrawn	Introduction of lur-g with scope modification	5.0.0		R3	TEI5
25.401	056	1	Rel-5	F	RP-020627	R3-022038	approved	Introduction of lur-g	5.3.0		R3	TEI5
25.420	028	1	Rel-5	F	RP-020627	R3-022147	approved	Introduction of lur-g	5.0.0		R3	TEI5
25.401	059	-	Rel-5	F	RP-020628	R3-022006	approved	Introduction of HS-DSCH RNTI in TS25.401	5.3.0		R3	TEI5
25.423	686	1	Rel-5	B	RP-020628	R3-022123	revised	Partial dedicated measurement reporting	5.2.0		R3	TEI5
25.423	714	-	Rel-5	F	RP-020628	R3-021975	approved	Traffic Class for HS-DSCH	5.2.0		R3	HSDPA-lublur
25.433	711	1	Rel-5	F	RP-020628	R3-022120	approved	Correction of HSDPA Common Configuration	5.1.0		R3	HSDPA-lublur
25.433	712	-	Rel-5	F	RP-020628	R3-021871	approved	TFC12 Bearer Correction for IP Transport	5.1.0		R3	ETRAN-IPtrans
25.442	003	1	Rel-5	F	RP-020628	R3-022033	approved	Deletion of Misleading Sentence for O&M Signalling Bearer	5.0.0		R3	ETRAN-lptrans
25.933	003	1	Rel-5	F	RP-020628	R3-022083	approved	Rapporteur's Corrections to TR25.933 IP Transport in UTRAN	5.1.0		R3	ETRAN-IPtrans
25.413	488	1	Rel-5	F	RP-020629	R3-022069	approved	CRRM Corrections	5.1.0		R3	TEI5
25.413	514	-	Rel-5	B	RP-020629	R3-022101	withdrawn	One possible invisible implementation for UTRAN pure systems of GERAN specific LCS change in RANAP	5.1.0		R3	LCS-GERAN
25.414	039	3	Rel-5	F	RP-020629	R3-022096	approved	Necessary changes for the lu UP support mode on lu-cs for the IP transport option	5.1.0		R3	ETRAN-IPtrans
25.433	726	2	Rel-4	F	RP-020630	R3-022164	approved	IP_offset correction	4.5.0		R3	TEI4
25.433	727	2	Rel-5	A	RP-020630	R3-022165	approved	IP_offset correction	5.1.0		R3	TEI4
25.413	515	-	Rel-5	B	RP-020643		approved	Signalling enhancements for GERAN lu Mode LCS	5.1.0		R3	LCS-GERAN

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25.423	687	1	Rel-5	F	RP-020646		approved	DSCH Initial Credits	5.2.0		R3	TEI5
25.433	713	3	Rel-5	F	RP-020647		approved	CQI and ACK/NACK Repetition factor and Power Offset and k-value	5.1.0		R3	HSDPA-Iublur
25.423	682	3	Rel-5	F	RP-020648		approved	CQI and ACK/NACK Repetition Factor and Power Offset and k-value	5.2.0		R3	HSDPA-Iublur
25.423	717	1	Rel-5	F	RP-020649		approved	HS-SCCH power offset	5.2.0		R3	HSDPA-Iublur
25.433	742	1	Rel-5	F	RP-020650		approved	HS-SCCH power offset	5.1.0		R3	HSDPA-Iublur
25.423	686	2	Rel-5	B	RP-020651		approved	Partial dedicated measurement reporting	5.2.0		R3	TEI5
25.423	684	2	Rel-5	F	RP-020652		approved	Required enhancements due to GERAN specific impacts on the lu-cs interface	5.2.0		R3	TEI5
25.102	118		R99	F	RP-020473	R4-021124	approved	Correction to 3.84 Mcps TDD option downlink power control requirements	3.11.0	3.12.0	R4	TEI
25.102	119		Rel-4	A	RP-020473	R4-021125	approved	Correction to 3.84 Mcps TDD option downlink power control requirements	4.5.0	4.6.0	R4	TEI
25.102	120		Rel-5	A	RP-020473	R4-021126	approved	Correction to 3.84 Mcps TDD option downlink power control requirements	5.1.0	5.2.0	R4	TEI
25.123	242		R99	F	RP-020474	R4-021113	approved	Definition of "Out of service area" conditions for Connected Mode CELL_FACH, CELL_PCH and URA_PCH states	3.10.0	3.11.0	R4	TEI
25.123	243		Rel-4	A	RP-020474	R4-021114	approved	Definition of "Out of service area" conditions for Connected Mode CELL_FACH, CELL_PCH and URA_PCH states	4.5.0	4.6.0	R4	TEI
25.123	244		Rel-5	A	RP-020474	R4-021115	approved	Definition of "Out of service area" conditions for Connected Mode CELL_FACH, CELL_PCH and URA_PCH states	5.1.0	5.2.0	R4	TEI
25.123	245		R99	F	RP-020474	R4-021116	approved	Corrections to TDD-GSM measurement requirements and test cases	3.10.0	3.11.0	R4	TEI
25.123	246		Rel-4	A	RP-020474	R4-021117	approved	Corrections to TDD-GSM measurement requirements and test cases	4.5.0	4.6.0	R4	TEI
25.123	247		Rel-5	A	RP-020474	R4-021118	approved	Corrections to TDD-GSM measurement requirements and test cases	5.1.0	5.2.0	R4	TEI
25.123	248	2	R99	F	RP-020474	R4-021353	approved	Corrections to TDD-TDD/FDD measurement requirements in Connected Mode	3.10.0	3.11.0	R4	TEI
25.123	249	2	Rel-4	A	RP-020474	R4-021354	approved	Corrections to TDD-TDD/FDD measurement requirements in Connected Mode	4.5.0	4.6.0	R4	TEI
25.123	250	2	Rel-5	A	RP-020474	R4-021355	approved	Corrections to TDD-TDD/FDD measurement requirements in Connected Mode	5.1.0	5.2.0	R4	TEI
25.133	434	1	R99	F	RP-020475	R4-021319	approved	Correction of Identification times in CELL_FACH state for BSIC identification	3.10.0	3.11.0	R4	TEI

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25.133	435	1	Rel-4	A	RP-020475	R4-021320	approved	Correction of Identification times in CELL_FACH state for BSIC identification	4.5.0	4.6.0	R4	TEI
25.133	436	1	Rel-5	A	RP-020475	R4-021321	approved	Correction of Identification times in CELL_FACH state for BSIC identification	5.3.0	5.4.0	R4	TEI
25.133	446	1	R99	F	RP-020475	R4-021333	approved	Accuracy requirement of UE Rx-Tx time difference type 2	3.10.0	3.11.0	R4	TEI
25.133	447	1	Rel-4	A	RP-020475	R4-021334	approved	Accuracy requirement of UE Rx-Tx time difference type 2	4.5.0	4.6.0	R4	TEI
25.133	448	1	Rel-5	A	RP-020475	R4-021335	approved	Accuracy requirement of UE Rx-Tx time difference type 2	5.3.0	5.4.0	R4	TEI
25.133	449		R99	F	RP-020475	R4-021140	approved	Correction of CELL_FACH test case	3.10.0	3.11.0	R4	TEI
25.133	450		Rel-4	A	RP-020475	R4-021141	approved	Correction of CELL_FACH test case	4.5.0	4.6.0	R4	TEI
25.133	451		Rel-5	A	RP-020475	R4-021142	approved	Correction of CELL_FACH test case	5.3.0	5.4.0	R4	TEI
25.133	458	1	R99	F	RP-020475	R4-021336	approved	Correction of SCH side conditions and corrections of test cases	3.10.0	3.11.0	R4	TEI
25.133	459	1	Rel-4	A	RP-020475	R4-021337	approved	Correction of SCH side conditions and corrections of test cases	4.5.0	4.6.0	R4	TEI
25.133	460	1	Rel-5	A	RP-020475	R4-021338	approved	Correction of SCH side conditions and corrections of test cases	5.3.0	5.4.0	R4	TEI
25.142	131		R99	F	RP-020476	R4-021206	approved	Alignment of minimum output power definition with core specification.	3.10.0	3.11.0	R4	TEI
25.142	132		Rel-4	A	RP-020476	R4-021207	approved	Alignment of minimum output power definition with core specification.	4.5.0	4.6.0	R4	TEI
25.142	133		Rel-5	A	RP-020476	R4-021208	approved	Alignment of minimum output power definition with core specification.	5.1.0	5.2.0	R4	TEI
25.102	121		Rel-4	F	RP-020477	R4-021222	approved	Correction to blocking exceptions for 1.28 Mcps TDD option	4.5.0	4.6.0	R4	LCRTDD-RF
25.102	122		Rel-5	A	RP-020477	R4-021223	approved	Correction to blocking exceptions for 1.28 Mcps TDD option	5.1.0	5.2.0	R4	LCRTDD-RF
25.102	123		Rel-4	F	RP-020477	R4-021225	approved	Correction of Out-of-Synchronisation test for 1,28 Mcps TDD option	4.5.0	4.6.0	R4	LCRTDD-RF
25.102	124		Rel-5	A	RP-020477	R4-021226	approved	Correction of Out-of-Synchronisation test for 1,28 Mcps TDD option	5.1.0	5.2.0	R4	LCRTDD-RF
25.113	016	1	Rel-4	F	RP-020478	R4-021362	approved	Correction to radiated spurious emission limits for 1,28 Mcps TDD option	4.2.0	4.3.0	R4	LCRTDD-RF
25.113	017	1	Rel-5	A	RP-020478	R4-021363	approved	Correction to radiated spurious emission limits for 1,28 Mcps TDD option	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	251	1	Rel-4	F	RP-020479	R4-021356	approved	1.28Mcps TDD/FDD cell reselection in idle mode	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	252	1	Rel-5	A	RP-020479	R4-021357	approved	1.28Mcps TDD/FDD cell reselection in idle mode	5.1.0	5.2.0	R4	LCRTDD-RF

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.123	253		Rel-4	F	RP-020479	R4-021164	approved	1.28Mcps TDD/GSM cell reselection test case in idle mode	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	254		Rel-5	A	RP-020479	R4-021165	approved	1.28Mcps TDD/GSM cell reselection test case in idle mode	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	255	1	Rel-4	F	RP-020479	R4-021358	approved	Cell reselection from 3.84Mcps TDD towards 1.28Mcps TDD in idle mode	4.5.0	4.6.0	R4	TEI4
25.123	256	1	Rel-5	A	RP-020479	R4-021359	approved	Cell reselection from 3.84Mcps TDD towards 1.28Mcps TDD in idle mode	5.1.0	5.2.0	R4	TEI4
25.123	257		Rel-4	F	RP-020479	R4-021168	approved	Cell reselection in CELL_FACH state	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	258		Rel-5	A	RP-020479	R4-021169	approved	Cell reselection in CELL_FACH state	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	259		Rel-4	F	RP-020479	R4-021170	approved	Handover for 1.28 Mcps TDD OPTION	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	260		Rel-5	A	RP-020479	R4-021171	approved	Handover for 1.28 Mcps TDD OPTION	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	261		Rel-4	F	RP-020479	R4-021172	approved	Introduction of Inter-RAT cell change for 1.28 Mcps TDD	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	262		Rel-5	A	RP-020479	R4-021173	approved	Introduction of Inter-RAT cell change for 1.28 Mcps TDD	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	263		Rel-4	F	RP-020479	R4-021174	approved	OCNS_Ec/lor and loc	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	264		Rel-5	A	RP-020479	R4-021175	approved	OCNS_Ec/lor and loc	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	265		Rel-4	F	RP-020479	R4-021176	approved	RACH reporting for 1.28 Mcps TDD	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	266		Rel-5	A	RP-020479	R4-021177	approved	RACH reporting for 1.28 Mcps TDD	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	267	1	Rel-4	F	RP-020479	R4-021366	approved	Correction to SFN-SFN type 2 measurement mapping for LCR TDD option	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	268	1	Rel-5	A	RP-020479	R4-021367	approved	Correction to SFN-SFN type 2 measurement mapping for LCR TDD option	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	269		Rel-4	F	RP-020480	R4-021180	approved	Correction to Test Case for Event 1G triggered reporting of neighbours in AWGN propagation condition for LCR TDD option	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	270		Rel-5	A	RP-020480	R4-021181	approved	Correction to Test Case for Event 1G triggered reporting of neighbours in AWGN propagation condition for LCR TDD option	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	271		Rel-4	F	RP-020480	R4-021182	approved	Correction to RX Timing Deviation for LCR TDD option	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	272		Rel-5	A	RP-020480	R4-021183	approved	Correction to RX Timing Deviation for LCR TDD option	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	273		Rel-4	F	RP-020480	R4-021184	approved	Correction to the intra frequency measurements for LCR TDD option	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	274		Rel-5	A	RP-020480	R4-021185	approved	Correction to the intra frequency measurements for LCR TDD option	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	275		Rel-4	F	RP-020480	R4-021186	approved	Correction to section 10	4.5.0	4.6.0	R4	LCRTDD-RF

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.123	276		Rel-5	A	RP-020480	R4-021187	approved	Correction to section 10	5.1.0	5.2.0	R4	LCRTDD-RF
25.123	277		Rel-4	F	RP-020480	R4-021229	approved	TDD inter-frequency measurement capability	4.5.0	4.6.0	R4	LCRTDD-RF
25.123	278		Rel-5	A	RP-020480	R4-021230	approved	TDD inter-frequency measurement capability	5.1.0	5.2.0	R4	LCRTDD-RF
25.133	464		Rel-4	F	RP-020481	R4-021200	approved	Removal of AMR speech codec requirement	4.5.0	4.6.0	R4	TEI4
25.133	466		Rel-4	F	RP-020481	R4-021232	approved	Completion of FDD-1.28 Mcps TDD	4.5.0	4.6.0	R4	LCRTDD-RF
25.133	467		Rel-5	A	RP-020481	R4-021233	approved	Completion of FDD-1.28 Mcps TDD	5.3.0	5.4.0	R4	LCRTDD-RF
25.133	468		Rel-5	A	RP-020481	R4-021340	approved	Removal of AMR speech codec requirement	5.3.0	5.4.0	R4	TEI4
25.142	134		Rel-4	F	RP-020482	R4-021209	approved	Correction of Minimum Output power test for 1,28 Mcps TDD option.	4.5.0	4.6.0	R4	LCRTDD-RF
25.142	135		Rel-5	A	RP-020482	R4-021210	approved	Correction of Minimum Output power test for 1,28 Mcps TDD option.	5.1.0	5.2.0	R4	LCRTDD-RF
25.142	136		Rel-4	F	RP-020482	R4-021211	approved	Correction to blocking testing procedure for 1,28 Mcps TDD option.	4.5.0	4.6.0	R4	LCRTDD-RF
25.142	137		Rel-5	A	RP-020482	R4-021212	approved	Correction to blocking testing procedure for 1,28 Mcps TDD option.	5.1.0	5.2.0	R4	LCRTDD-RF
25.106	008	1	Rel-4	F	RP-020483	R4-021349	approved	Out of band gain	4.2.0	4.3.0	R4	RInImp-REP
25.106	009	1	Rel-5	A	RP-020483	R4-021350	approved	Out of band gain	5.1.0	5.2.0	R4	RInImp-REP
25.143	011	1	Rel-4	F	RP-020483	R4-021351	approved	Out of band gain	4.4.0	4.5.0	R4	RInImp-REP
25.143	012	1	Rel-5	A	RP-020483	R4-021369	approved	Out of band gain	5.1.0	5.2.0	R4	RInImp-REP
25.101	184	2	Rel-5	F	RP-020484	R4-021384	approved	Requirements in case of dedicated pilot	5.3.0	5.4.0	R4	RANimp-BFR-UE
25.101	189	1	Rel-5	F	RP-020484	R4-021318	approved	Corrections to Spectrum Emission Mask	5.3.0	5.4.0	R4	TEI5
25.101	191		Rel-5	F	RP-020484	R4-021305	approved	PRACH modulation quality	5.3.0	5.4.0	R4	TEI5
25.104	141	1	Rel-5	F	RP-020485	R4-021307	approved	Correction to spurious emissions limits	5.3.0	5.4.0	R4	RInImp-UMTS18, RinImp-UMTS19
25.104	146		Rel-5	B	RP-020485	R4-021311	approved	Time alignment in TX Diversity	5.3.0	5.4.0	R4	TEI5
25.105	123		Rel-5	F	RP-020486	R4-021203	approved	Alignment of ALCR definition with new power definition	5.1.0	5.2.0	R4	TEI5
25.133	430	1	Rel-5	F	RP-020487	R4-021324	approved	Inclusion of TTI uncertainty in event reporting delays for FDD measurement test cases.	5.3.0	5.4.0	R4	TEI5
25.133	457	1	Rel-5	F	RP-020487	R4-021381	approved	Corrections of the tables of valid compressed mode parameters	5.3.0	5.4.0	R4	TEI5
25.133	465	2	Rel-5	F	RP-020487	R4-021385	approved	Inclusion of AMR WB speech codec requirements	5.3.0	5.4.0	R4	TEI5
25.141	189	1	Rel-5	F	RP-020488	R4-021306	approved	Correction of transmit inter modulation test method	5.3.1	5.4.0	R4	TEI5
25.141	215	2	Rel-5	F	RP-020488	R4-021314	approved	Correction of the internal BLER calculation verification test	5.3.1	5.4.0	R4	TEI5
25.141	218	1	Rel-5	F	RP-020488	R4-021196	approved	Correction of receiver spurious emission test	5.3.1	5.4.0	R4	TEI5

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
								method				
25.141	236		Rel-5	F	RP-020488	R4-021082	approved	Correction of Test Model 4	5.3.1	5.4.0	R4	TEI5
25.141	241		Rel-5	F	RP-020488	R4-021281	approved	Corrections to Spectrum Emission Mask	5.3.1	5.4.0	R4	TEI5
25.142	138	1	Rel-5	F	RP-020489	R4-021316	approved	General corrections to TS25.142	5.1.0	5.2.0	R4	TEI5
25.142	141		Rel-5	F	RP-020489	R4-021216	approved	Correction of Node B test configurations	5.1.0	5.2.0	R4	TEI5
25.142	142		Rel-5	F	RP-020489	R4-021217	approved	Correction of QPSK EVM/PCDE test for 1.28 Mcps TDD option.	5.1.0	5.2.0	R4	LCRTDD-RF
25.102	125		Rel-5	F	RP-020490	R4-021227	approved	Update of reference to ITU-R recommendation SM.329-9	5.1.0	5.2.0	R4	TEI5
25.105	126		Rel-5	F	RP-020490	R4-021228	approved	Update of reference to ITU-R recommendation SM.329-9	5.1.0	5.2.0	R4	TEI5
25.142	144		Rel-5	F	RP-020490	R4-021234	approved	Update of reference to ITU-R recommendation SM.329-9	5.1.0	5.2.0	R4	TEI5
34.124	008		Rel-5	F	RP-020490	R4-021237	approved	Update of reference to ITU-R recommendation SM.329-9	5.0.0	5.1.0	R4	LCRTDD-RF
25.105	122	1	Rel-5	F	RP-020491	R4-021309	approved	3,84 Mcps TDD option LA ACS and DR desired signal level correction	5.1.0	5.2.0	R4	RInImp-BSCClass-TDD
25.105	127		Rel-5	F	RP-020491	R4-021287	approved	1,28 Mcps TDD option Local Area BS ACS and Dynamic Range desired signal level correction	5.1.0	5.2.0	R4	RInImp-BSCClass-LCRTDD
25.142	130	1	Rel-5	F	RP-020491	R4-021310	approved	3,84 Mcps TDD option LA ACS and DR desired signal level correction	5.1.0	5.2.0	R4	RInImp-BSCClass-TDD
25.142	145		Rel-5	F	RP-020491	R4-021288	approved	1,28 Mcps TDD option Local Area BS ACS and Dynamic Range desired signal level correction	5.1.0	5.2.0	R4	RInImp-BSCClass-LCRTDD
25.104	142		Rel-5	F	RP-020492	R4-021282	approved	Correction to CPICH measurement period	5.3.0	5.4.0	R4	TEI5
25.141	242		Rel-5	F	RP-020492	R4-021283	approved	Correction to CPICH accuracy measurement	5.3.1	5.4.0	R4	TEI5
25.105	124		Rel-5	F	RP-020493	R4-021204	approved	Applicability of requirements in case of RF devices external to the BS	5.1.0	5.2.0	R4	TEI5
25.142	139		Rel-5	F	RP-020493	R4-021214	approved	Applicability of requirements in case of RF devices external to the BS	5.1.0	5.2.0	R4	TEI5
25.105	125		Rel-5	F	RP-020494	R4-021205	approved	Total power dynamic range definition	5.1.0	5.2.0	R4	TEI5
25.142	140		Rel-5	F	RP-020494	R4-021215	approved	Total power dynamic range definition.	5.1.0	5.2.0	R4	TEI5
25.101	188	2	Rel-5	F	RP-020495	R4-021388	approved	Performance requirements for the HSDPA Fixed Reference Channel (FRC)	5.3.0	5.4.0	R4	HSDPA-RF
25.102	126		Rel-5	B	RP-020495	R4-021331	approved	Addition of HSDPA UE requirements for 1.28 Mcps TDD option for 16QAM and QPSK for fixed reference channels	5.1.0	5.2.0	R4	HSDPA-RF
25.141	239	1	Rel-5	B	RP-020495	R4-021364	approved	Node-B EVM Test for Transmission of HSDPA	5.3.1	5.4.0	R4	HSDPA-RF

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
								16QAM Signals				
25.142	143		Rel-5	F	RP-020495	R4-021221	approved	Correction of 16QAM EVM/PCDE testing for HSDPA for 1.28 Mcps TDD option	5.1.0	5.2.0	R4	HSDPA-RF
25.133	469	2	R99	F	RP-020529	R4-021393	approved	Definition of valid range for Rx-Tx time difference	3.10.0	3.11.0	R4	TEI
25.133	470	1	Rel-4	A	RP-020529	R4-021394	approved	Definition of valid range for Rx-Tx time difference	4.5.0	4.6.0	R4	TEI
25.133	471	1	Rel-5	A	RP-020529	R4-021395	approved	Definition of valid range for Rx-Tx time difference	5.3.0	5.4.0	R4	TEI
25.141	243		Rel-5	F	RP-020530	R4-021332	approved	UTRAN measurement Transmitted carrier power	5.3.1	5.4.0	R4	TEI5
25.141	244		R99	F	RP-020468		approved	Correction of regional requirements	3.10.0	3.11.0	R4	TEI
25.141	245		Rel-4	A	RP-020468		approved	Correction of regional requirements	4.5.0	4.5.0	R4	TEI
25.141	246		Rel-5	A	RP-020468		approved	Correction of regional requirements	5.3.1	5.4.0	R4	TEI

Annex D: List of actions

D.1 Actions for all WGs

Concerning the CR file, it is requested that only the final revision is included, and not the intermediate revisions of revisions. This should be applied at all RAN WGs.

TSG RAN requested that particular care shall be taken in all Working Groups of 3GPP TSG RAN to the use of correct form for CR cover sheet and the way the different elements are filled. More particularly, for Release 99 the element provided for "Consequence if not approved" shall be very carefully written so as to provide a clear view at the plenary. Working Group chairs were requested to be particularly careful to the way the cover sheet is used and filled up before agreeing on CRs.

D.2 Specific actions for WG1

None

D.3 Specific actions for WG2

- to study the potential impact on any RAB of the removal of configuration D of the AMR-WB speech codec approved in SA WG4 (sec. 6.2 doc. RP-020463)
- to confirm/change the values in table 5.1b in CR47 to 25.306 so the square brackets can be removed (7.2.5, doc RP-02055).
- to produce the appropriate CRs to 25.306 related to the Phase reference for HSDPA" CRs from WG1 to 25.211 (sec 7.1.6, doc RP-020591)
- to create the CRs that implement the bit indicator for the extension container to handle early mobiles (sec. 8.0, doc RP-020666)
- to review the description sheet of the "Early UE Handling" SI

D.4 Specific actions for WG3

- to consider the impact in WG3 specifications of the removal of configuration D of the AMR-WB speech codec approved in SA WG4 (sec. 6.2 doc. RP-020463)
- to report back to RAN any difficulty met when studying the isolated impact analysis and backward compatibility of Rel-4 CRs. (sec. 7, doc RP-020642)

D.5 Specific actions for WG4

- to evaluate the different layer 3 filtering options and to conclude on which is the best solution and on which measurements it has to be used (sec. 7.2.2, doc RP-020667)
- to ensure that there is a representative from a 3GPP member company attending COST and CTIA in order to report back to WG4 and RAN (sec. 8.7.7, doc. RP-020470).

D.6 Actions for RAN Chairman

- to contact ETSI SES chairman and to clarify the issues raised in TSG RAN in relation with the evaluation of WCDMA as a satellite technology (sec. 6.1, doc RP-020464)
- to inform RAN in its SA report of the result of the discussion on the deletion of configuration D of the AMR WB (sec 6.2, RP-020463)
- to present to PCG the four documents directed to ITU. If the contribution on QoS classes (RP-020520) is modified by TSG SA, the chairman will incorporate the changes prior to presentation to PCG (sec. 7.5, docs. RP-020517, RP-020518, RP-020519, RP-020520)

D.7 Actions for WG chairmen

- to ensure that clarification CRs are accepted only for Rel-4 (and its corresponding Rel-5 cat A)

Annex E: Meeting Schedule

TSG RAN WG1 meetings:

Meeting #	Date	Host	Location
28bis	9-10 October 2002		
29	5-8 November 2002	Samsung	China
30	January 2003		San Diego, US
31	February 2003		Tokyo, Japan

Date of meeting #29 has been changed

TSG RAN WG2 meetings:

Meeting #	Date	Host	Location
32	23 – 27 September 2002	CATT	Xi'an, China
33	11 – 15 November 2002	ETSI	Sophia Antipolis, France
34	17 - 21 February 2003		Europe
35	07 - 11 April 2003		Asia
36	19 - 23 May 2003	European Friends of 3GPP	Paris, France
37	25 - 29 August 2003		Europe
38	06 - 10 October 2003		Europe
39	17 - 21 November 2003		

TSG RAN WG3 meetings:

Meeting #	Date	Host	Location
32	23 – 27 September 2002	CATT	Xi'an, China
33	11 – 15 November 2002	ETSI	Sophia Antipolis, France
34	17 - 21 February 2003	ETSI	Sophia Antipolis, France
35	07 - 11 April 2003		
36	19 - 23 May 2003	European Friends of 3GPP	Paris, France
37	25 - 29 August 2003		
38	06 - 10 October 2003		
39	17 - 21 November 2003		

TSG RAN WG4 meetings:

Meeting #	Date	Host	Location
25	11 – 15 Nov 2002	Spirent	New Jersey, US
26	17 – 21 Feb 2003	European Friends of 3GPP	Europe
27	19 - 23 May 2003	European Friends of 3GPP	Paris, France
28	18-22 August 2003	CATT	China
29	17 - 21 November 2003	Qualcomm	San Diego, US

TSG RAN meetings:

Meeting #	Date	Host	Location
18	03 - 06 December 2002	North American Friends of 3GPP	New Orleans, US
19	11 - 14 March 2003	UK Friends of 3GPP	Jersey, Channel Islands (British Isles)
20	03 - 06 June 2003	Nokia	Hämeenlinna, Finland
21	16 - 19 September 2003	Siemens	Berlin, Germany
22	09 - 12 December 2003	ARIB/TTC/NA Friends of 3GPP	Hawaii, US
23	09 - 12 March 2004		China
24	01 - 04 June 2004		
25	07 - 10 September 2004		US
26	07 - 10 December 2004		

Annex F: Summary of RAN Work Items

This table lists RAN Work Items still open after meeting #17 and RAN Work Items closed at meeting #17. Note that the level of completion is merely an ESTIMATION, provided by the WG, the rapporteur or the 3GPP support. With the exception of HSDPA and UTRAN sharing in connected mode, which are Release 5 WIs, the rest are Release 6 or later.

Abbreviations used: %: Level of completion
 BB: Building Block
 Feat: Feature
 FS: Feasibility Study
 SI: Study Item
 WI: Work Item
 WT: Work Task

Type	WI name	WI acronym	Leading WG	%	Finish date	Status report	Remarks
Feat	Radio Interface Improvement	RInImp	TSG RAN				
BB	Improvement of inter-frequency and inter-system measurements	RInImp-IfIsM	WG1	0%	March June 03	RP-020638	Completion date changed from Dec 02
BB	Base Station Classification	RInImp-BSCClass	WG4		Dec 02		3.84 Mcps TDD & 1.28 Mcps TDD BS Class already finished
WT	FDD Base Station Classification	RInImp-BSCClass-FDD	WG4	85%	Dec 02	RP-020469	
BB	Improved usage of downlink resource in FDD for CCTrCHs of dedicated type	RInImp-CCTrCH	WG2	-	Sept 02		No work done, the WI is closed
BB	Terminal power saving features	RInImp-TPS	WG2	0%			Generic work item
BB	Multiple Input Multiple Output antennas (MIMO)	RInImp-MIMO	WG1	35%	June 03	RP-020594	Completion date changed from March 03
BB	Improving Receiver Performance Requirements for the FDD UE	RInImp - UERecPerf	WG4		Dec 02	RP-020510	WG4 couldn't estimate the level of progress
SI	FS on Radio link performance enhancements	RInImp-RIperf	WG1	31%	Dec 02	RP-020639	Completion date changed from September 02
SI	FS on Fast Cell Selection (FCS) for HS-DSCH	RInImp-FCS	WG1	0%	March 03	RP-020533	Completion date changed from Dec 02; new rapporteur Rizwan Hassan (Lucent)
SI	FS on UTRA Wideband Distribution System	RInImp-WDS	WG4	40%	March 03	RP-020496	
SI	FS for the viable deployment of UTRA in additional and diverse spectrum arrangements	RInImp-UMTSBands	WG4	70%	Dec 02	RP-020467	

Type	WI name	WI acronym	Leading WG	%	Finish date	Status report	Remarks
SI	FS on Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD	RInImp-IflsMLCR	WG1	20%	March 03	RP-020634	Completion date changed from September 02
SI	FS of UE antenna efficiency test methods performance requirements	RInImp-UEAnTM2	WG4	100%	Sept 02	RP-020470	SI is finished, no WI required
SI	FS for the Analysis of OFDM for UTRAN enhancement	RInImp-FSOFDM	WG1	0%	June 03	RP-020511	Revised description sheet provided in RP-020672
SI	FS on Uplink Enhancements for Dedicated Transport Channels	RInImp-FSUpDTrCh	WG1	0%	June 03	New SI	Description sheet in RP-020658
SI	FS on Analysis of higher chip rates for UTRA TDD evolution	RInImp-FSVHCR TDD	WG1	0%	June 03	New SI	Description sheet in RP-020673
Feat	RAN Improvement Feature	RANimp	TSG RAN				
BB	Radio access bearer support enhancement	RANimp-RABSE	WG2	0%		RP-020596	Generic WI; Rel-6 work has not yet started
BB	Improvement of RRM across RNS and RNS/BSS	RRM1	WG3	30%	Dec 02	RP-020498	
BB	Beamforming Enhancements	RANimp-BFE	WG1	40%	March 03	RP-020640	Completion date changed from Dec 02
SI	FS on SRNS Relocation Procedure enhancement	RANimp-SRNS	WG3	100%	Sept 03 02	RP-020500	SI finished, no agreement on a WI
SI	FS on the Evolution of UTRAN Architecture	RANimp-FSEvo	WG3	0%	June 03	New SI	Description sheet in RP-020670
SI	FS for the Early Mobile Handling in UTRAN	RANimp-FSEarlyUE	WG2	0 %	Dec 02	New SI	Description sheet in RP-020666, to be revised by WG2
Feat	UTRAN sharing in Connected mode	NETSHARE	WG3	100%	Sept 02	RP-020499	WI finished, it is kept in Rel-5
BB	UE positioning		TSG RAN				This is a building block under SA WG2 feature "Location Services"
WT	UE positioning enhancements		WG2				Generic WI; Rel-6 work has not yet started
WT	Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods	LCS-Rel4Pos	WG2	0%	March 03	RP-020506	Completion date changed from September 02
SI	FS on Enhancements to OTDOA Positioning using advanced blanking methods		WG2	40%	March 03	RP-020563	
Feat	High Speed Downlink Packet Access	HSDPA	TSG RAN				
BB	HSDPA - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	HSDPA-RF	WG4	90%	Dec 02	RP-020505	HSDPA-RF remains part of Rel-5
BB	Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN	MBMS-RAN	WG2	7%	June 03	RP-020562	This is a building block under SA WG1 feature "MBMS"