Title:	**Revised Draft Report of the 19th 3GPP TSG RAN meeting (Birmingham, UK, 11 - 14 March 2003)**
Document for:	**Approval**
Source:	**3GPP support team**

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Executive Report

TSG RAN meeting #19 took place in the Hotel Hilton Metropole at the National Exhibition Centre, Birmingham, UK. The meeting started at 9:00 on Tuesday 11th March 2003 and finished at 13:00 on Friday 14th March 2003. 113 participants were registered and 201 documents were presented.

The approved Change Requests (CRs) to TSG RAN specifications are summarized in the following table:

Release	WG1	WG2	WG3	WG4	Total
Release 99	1	26	7	16	50
Rel-4 CRs (Rel-4 excluding Cat A)	2 (1)	33 (10)	25 (18)	26 (11)	86 (40)
Rel-5 CRs (Rel-5 excluding Cat A)	23 (20)	56 (24)	53 (28)	46 (20)	178 (92)
Rel-6 CRs (Rel-6 excluding Cat A)		3	4	23 (8)	30 (15)
Total CRs (Total excluding Cat A)	26 (22)	118 (63)	89 (57)	111 (55)	344 (197)

A few controversial issues were treated, with diverse results. The main topic was again the Handling of Early UE (section 9.9.11). An Ad Hoc (RP-030128) was had been held in January to progress the work on the Iu based solution. Two approaches, IMEI-SV or bitmap, are under discussion. No decision was taken there, and also no consensus could be reached at this meeting. It was however agreed to ask SA WG2 to progress on the architecture aspects of both solutions, and also that two votes will be held (if no agreement is reached before) in the next TSG RAN meeting, to decide on the solution (IMEISV or bitmap) and the Release where the CRs will be incorporated.

Release 99, Release 4 & Release 5

Some concerns were raised by operators on the use of "should" clauses for UE requirements in TS25.331 (sec. 8.2.1)

The UE support of variable duplex separation was discussed, there is misalignment between the RRC specification and the RF requirements. It seems that UE performance would be affected if support of the functionality is required, WG4 is tasked to study the issue (sec. 8.2.6)

CRs had been agreed by WG3 to specify the TFCI power on S-CCPCH in case of no data, but a paper was presented at this meeting objecting the actual need of that specification. No agreement was reached, WG1 is tasked to study the issue (sec. 8.3.5)

WG4 agreed to close HSDPA-RF Rel-5 activity by next meeting, meaning that no additional requirements & test will be included in that Release after. This was discussed, as some companies believed that Rel-5 HSDPA should contain more tests (sec. 8.4.1)

The issue of the emission limits for ITE being defined by CISPR was brought to the attention of TSG RAN, since one contribution presented to WG4 and TSG RAN indicates it seems that those limits do not protect sufficiently WCDMA receivers. WG4 is tasked to perform the required simulations and, if agreement is reached in the group, liaise with CISPR (RP-030020)

WG4 had been tasked to provide a Layer 3 filter definition, but no agreement was reached there. After an indicative vote in this meeting, the logarithmic proposal was agreed (sec 8.4.2).

The Cell Identification requirements for inter-freq. or inter-RAT handover was debated again. The issue is still under discussion in WG4, and TSG RAN agreed that test cases for particular environments could be added to Rel-5, and in the process clarifications to the core requirements could be added also in Rel-5 (RP-030171)

Release 6 and beyond

Concerns were raised about the inaccuracy of the completion dates of the Work Items. See Annex F for a summary of the Work Items under TSG RAN responsibility, including the changes of dates and updated WI Description Sheets.

The Feature "Terminal Power Saving" was closed due to the lack of work (sec. 9.1.2).

The MIMO Work Item was updated to create a common building block and separate Work Task for each WG (sec. 9.1.3).

The UMTS 850 MHz was updated. There was considerable debate on the eventual applicability of this frequency arrangement in Europe, finally it was agreed to explicitly mention in the Description Sheet that the WI applies only to ITU Region 2 (sec. 9.1.5).

The Feasibility Study for "The Fast Cell Selection for HS-DSCH" is closed upon request of the rapporteur (sec. 9.9.2).

TR 25.951 v2.0.0 "FDD BS classification" was approved and will be put under change control as version 6.0.0 (RP-030155)

The following Rel-6 TRs under the responsibility of TSG RAN were presented for information:
- TR 25.992 v1.3.0 "Multimedia Broadcast/Multicast Service (MBMS); UTRAN/GERAN requirements" (RP-030016)
- TR 25.996 v1.0.0 "Spatial Channel Model for Multiple-Input Multiple-Output Simulations" (RP-030181)
- TR 25.895 v1.0.0 "Analysis of higher chip rates for UTRA TDD evolution" (RP-030095)

The following new Work Items/Study Items were approved (sec. 9.10):
- DS-CDMA introduction in the 800 MHz band
- UMTS 1.7/2.1 GHz
- Remote Control of Electrical Tilting Antennas
- FS for Low Output Powers for general purpose FDD BSs
- Network Assisted Cell Change from UTRAN to GERAN - network aspects
- Iu enhancements for IMS support in the RAN

The Trace functionality was discussed again. A joint Ad Hoc with SA WG5 had been held with the purpose of clarifying SA WG5 requirements, but the proposed WI Description Sheet (RP-030166) couldn't be agreed by TSG RAN. Due to the blocking situation on this issue, the WIDS could be the subject of a vote at next TSG RAN.

ITU-R issues

Three inputs to the ITU-R were approved:

RP-030092   Proposed response to ITU-R WP8F on coexistence Between IMT-2000 TDD and FDD
             Radio Interface Technologies Within the Frequency Range 2 500-2 690 MHz Operating
             in Adjacent Bands and in the Same Geographical Area
RP-030176   Proposed Initial submission for updated UTRA FDD and TDD toward Rev. 4 of Rec.
             ITU-R M.1457 (TSG RAN)
RP-030177   Proposed updated information on the Roadmap (TSG RAN)
These inputs are informative, the official submission will take place in September 2003.

1   Opening of the meeting

Francois Courau (Chairman) opened the meeting at 9:00. Steve Green (DTI) explained the
arrangements for the meeting and social event arrangements.

2   Approval of the Agenda

RP-030005   Revised proposed agenda (Chairman)
Francois Courau (Chairman) presented the agenda
Decision: the agenda was approved

3   Approval of meeting reports

**RP-030002   Revised Draft Report of the 18th TSG-RAN meeting (New Orleans, US, 3 - 6
December, 2002) (3GPP Support)**
Decision: the report is approved

**RP-030128   Revised draft Report of of the "Early UE" Ad Hoc meeting (Sophia Antipolis,
France 29 – 30 January 2003) (3GPP Support)**
Francois Courau (Chairman) gave a brief summary of this meeting.
The Ad Hoc couldn't agree on the content of the Iu information to be transferred from the CN to the
RNC. Francois warned against delaying the decision more, in his view the opinions of the companies
would not change as time passes by.
Decision: the report is approved

4.   Reminder for IPR declaration

The chairman reminded the delegates of their obligations concerning 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 Director-General, or the Chairman 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 Elections of TSG RAN chairman and vice-chairmen

César Gutiérrez (Secretary) presented the candidates for the chair and vice-chair positions, document RP-030169 contains the candidatures and letters of support.
Eisuke Fukuda (Fujitsu) and Donald Zelmer (Cingular) were the two candidates for the two vice-chairmanships, they were elected without the need of a vote.
Francois Courau (Alcatel) was the only candidate for chairman, he was elected without vote as well.

6 Chairman's Reports of meetings

The chairman had already reported by email the issues concerning RAN in TSG SA #18.

7 Liaisons from other groups

7.1 Groups outside 3GPP

7.2 TSG-SA, TSG-T, TSG-CN, TSG-GERAN

RP-030121 LS on comments to DTR/MTS 0082, UMTS Network Integration Testing Methodology and TSS&TP (TSG SA, SP-020844 to ETSI TC MTS, cc 3GPP TSG CN, 3GPP TSG RAN, 3GPP T WG1)
Francois Courau (chairman) explained that this is the common response from all 3GPP TSGs to ETSI TC MTS, explaining that the work being overtaken there should actually be performed in 3GPP.
Document DTR/MTS0082 had already been presented in TSG RAN #18
Decision: The LS is noted

RP-030123 Reply to LS on requirement to test non-transmission of newly defined IEs in RRC protocol for Early UE handling (TSG T WG1, T1-030226 to TSG RAN, cc T, T1, RAN2, SA)
Richard Burbidge (Motorola) presented this LS.T WG1 informs that the requirement from TSG RAN for the Early Ue IEs (RP-020904) will be introduced in July 2003.
Decision: The LS is noted

RP-030124 LS on LCS architecture descriptions for TS23.002 update (TSG GERAN, GP-030297, Response to S2-023671, to SA WG2, cc TSG RAN, RAN WG3)
Denis Fauconnier (WG2 chairman) noted that WG2 is aware of the LS and working on the issue.
Decision: The LS is noted

RP-030127 LS on Radio Access Bearer for PS conversational testing (TSG SA WG4, S4-030260, to TSG RAN, RAN WG2, TSG CN, cc GERAN WG2)
Paolo Usai (SA WG4 secretary) gave a brief introduction to the background of this LS. SA WG4 is starting a testing effort, funded by external bodies, on the conversational services over packet switched network. On the time schedule, Paolo explained that this is a Rel-6 study.

Paolo explained that IPv6 is not considered for the time being, mainly due to budgetary reasons, and that header compression is still under study, as many other aspects; the attachment contains the current

situation of the test. It was argued that ROHC should be used, as it will be in the actual implementations, and it introduces errors that must be considered.

Mony Kochupillai (~~Three~~'3') answered the first question from SA WG4: the RAB presented by SA WG4 is the only one available for that service.

As a conclusion, it seems clear that RAN needs now to investigate the real time services over the packet network. If the delays happen to be more than expected from SA WG4 this should be clarified as soon as possible. RAN WG2 and SA WG4 will have to keep close liaison to check the correctness of the assumptions, and RAN WG3 will have to examine the delay values used by SA WG4.
It was further clarified that, from a RAN perspective, there will no new types of codecs taken into account to estimate the delays.
Decision: The LS is noted

RP-030125   LS on Early UE Handling (TSG CN WG1)
RP-030126   LS response on Early Ue Handling (TSG CN WG4)
RP-030164   LS on early UE handling (TSG SA WG2)
See agenda item 9.9.11

7.3   TSG-RAN WGs

RP-030122   LS on Antenna Interface Standards Group (AISG) (RAN WG4, R4-030348)
Howard Benn (WG4 chairman) presented this LS
Upon presentation of the AISG draft, RAN WG4 has discovered a number of unclear issues in that specification. WG4 asks RAN to liaise with AISG and to relay the comments.
Volker Hoehn (Vodafone) suggested discuss the whole issue together with the WI proposed (RP-030022).
Han van Bussel (T-Mobile) noted that this work should have been done inside 3GPP, to avoid the problems detected in WG4. It was noted also that the AISG document cannot be directly transposed to a 3GPP document, there are some references to particular equipment that can't be used in a 3GPP document and, in any case, there is work to be done by WG3 and WG4. Vodafone agreed with these views, and explained that the intention of the proposed WI is to cover that work.
It was also clarified that due to the fact that AISG has not yet any official status no direct reference can be made to their specific documentation. If this situation is changed then the issue will have to be reconsidered. In the mean time 3GPP TSG RAN will have to elaborate the full specification.
Decision: The LS is noted

Summary of incoming LSs:

Tdoc	Title	Source	Source File	Conclusion
RP-030121	LS on comments to DTR/MTS 0082, UMTS Network Integration Testing Methodology and TSS&TP	TSG SA	SP-020844	Noted
RP-030123	Reply to LS on requirement to test non-transmission of newly defined IEs in RRC protocol for Early UE handling	TSG T WG1	T1-030226	Noted
RP-030124	LS on LCS architecture descriptions for TS23.002 update	TSG GERAN	GP-030297	Noted. Under study in RAN WG2
RP-030127	LS on Radio Access Bearer for PS conversational testing	TSG SA WG4	S4-030260	Noted. RAN WG2 & WG3 to support SA WG4
RP-030125	LS on Early UE Handling	TSG CN WG1	N1-030201	Noted. See section 9.9.11
RP-030126	LS response on Early Ue Handling	TSG CN WG4	N4-030220	
RP-030164	LS on early UE handling	SA WG2	S2-031004	
RP-030122	LS on Antenna Interface Standards Group (AISG)	TSG RAN WG4	R4-030348	Noted. New WI approved, see 9.10

8 Status Report and Approval of contributions on Release'99 and Release 4 and finished work item for Release 5

8.1 TSG RAN WG1

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

RP-030130   Status Report WG1 (RAN WG1 Chairman)
Antti Toskala (WG1 chairman) presented this report. The work of WG1 can be briefly summarized as follows:
- Two full WG1 meetings since last TSG RAN#18. Also joint Ad Hoc on MIMO channel modelling with 3GPP2 01/03 (in connection with WG1#30 meeting)
- New TSG RAN WG1 Officials Elected
- Release -99 CRs 1 for FDD, 0 for TDD
- Release 4 CRs total is 0 for FDD, 2 for TDD
- Release 5 CRs total 8 for FDD, 12 for TDD
- Approx. 70% the meeting time used for Rel'6.

Concerning Rel-5 HSDPA discussions (slide 10), Edgar Fernandes (Motorola) questioned if there is still work ongoing in WG 1 on the effect of closed loop TX diversity on HS-SCCH. Antti noted that it was the case, but in principle it would not affect WG4. The concern from Edgar was how the outcome of the discussion in WG1 would affect the simulations in WG4, since WG4 agreed in to finish all Rel-5 HSDPA work in the next meeting. Antti clarified that the work would not affect the single antenna requirements, which are the ones to be completed in WG4 by next meeting, and if any, it would affect TX diversity tests.

There was debate on the MBMS QoS. It was suggested that it is the SA groups (WG1, WG2, WG4) who have to look at the error rates, hence they have to be involved in the discussion. It was objected that it is a purely RAN issue, the MBMS in RAN should be considered a bearer; the codecs and the

requirements from the applications will be the same as for other services, so RAN can handle the issue independently of SA. Paolo Usai (SA WG4 secretary) clarified that SA WG4 has just started to look at MBMS, a number of LSs have been received there but there were no company contributions on the topic. Although it can't be fully ensured that this point, it seems that no new codec will be used for MBMS. It ~~seems~~ was agreed that the working assumption in RAN is that the requirements for the QoS will not change, that means that if a new codec is introduced, its requirements from the bearer would be the same as before.

It is clarified that no LS from RAN WG1 has been sent to SA groups on this issue.

RP-030131   Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN (RAN WG1)

This document recollects all the RAN documents with the CRs agreed in RAN WG1.

8.1.2   Discussions on decisions from WG1

RP-030017   Correction of UTRAN SIR measurement definition, CR 25.215-135r4 (R99), CR 25.215-136r2 (Rel-4), CR 25.215-133r3 (Rel-5) (Ericsson, Nortel)

Dirk Gerstenberger (Ericsson) presented these CRs.
SIR reporting when a radio link set contains more than one radio link and when Rx diversity is implemented in the Node B is not specified clearly enough. The standard leaves it open to the Node B implementation how to report SIR in case a radio link contains more than one radio link set and in case Rx diversity is deployed in the cells of a Node B. The CRs clarify the SIR definition to take these cases into account.

Dirk clarified that the correction has no impact on the NodeB performance, it affects the report to the RNC but not the internals of the NodeB. Antti Toskala (Nokia) commented that this is not a required correction for Rel99, as the system would work anyway, and should be approved for Rel-5 only. Evelyne Le Strat (Nortel) pointed to the "consequences if not approved" that show a substantial difference in the value reported by NodeBs designed according to the old and the new definition.

There seemed to be agreement on the Rel-5 CR; it was however questioned if the proposed definition was the common understanding between manufacturers for Rel99. Nokia clarified that it the interpretation depends very much on the implementation, so it cannot be ensured.
Decision: CR135r4, CR136r2 are rejected, CR133r3 is approved.

8.1.3   Approval of CRs to Release '99 with linked CRs to Release 4 and Release 5

RP-030132   CRs (R'99 and Rel-4/Rel-5 category A) to TS 25.214 (RAN WG1)

Han van Bussel (T-Mobile) questioned why a correction to an informative annex is proposed for Rel99. This triggered the usual discussion on the need of this kind of clarification CRs in Rel99.
Finally Han agreed to approve the CR, but required the WGs, WG1 in particular, to include solid arguments in the "consequences if not approved" field in the coversheet, so it can be easily understood that the CR is really needed.
Decision: The CR is approved

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

RP-030133 CRs (R'el-4 and Rel-5 category A) to TS 25.224 (RAN WG1)
Decision: The CR is approved

8.1.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG1:

Tdoc	Title	Decision
RP-030134	CRs (Rel-5) to TS 25.212	Approved
RP-030135	CRs (Rel-5) to TS 25.213	Approved
RP-030136	CRs (Rel-5) to TS 25.214	Approved
RP-030137	CRs (Rel-5) to TS 25.215	Withdrawn 1)
RP-030138	CRs (Rel-5) to TS 25.221	Approved
RP-030139	CRs (Rel-5) to TS 25.222	Approved
RP-030140	CRs (Rel-5) to TS 25.223	Approved
RP-030141	CRs (Rel-5) to TS 25.224	Approved
RP-030142	CRs (Rel-5) to TS 25.225	Withdrawn 1)

1) CRs to 25.215 and 25.225 are presented together with WG3 CRs, hence RP-030137 and RP-030142 are withdrawn

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

No contributions

8.2 TSG RAN WG2

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

RP-030018 Status Report WG2 (RAN WG2 Chairman)
Revised in RP-030173.

RP-030173 WG2 Status Report (Revised) (WG2 Chairman)
Denis Fauconnier (WG2 chairman) presented this report. WG2 activity can be summarized as follows:
- Release 99 corrections
  - Occupied 2 days of last meeting, number of CRs is down.
- Release 4 corrections
  - Very few
- Release 5
  - HSDPA corrections
  - Completion of some TEIs
- Release 6
  - Big progress towards MBMS architecture. Convergence of companies on key functions; reasonable synergy with SA2.
  - Joint meeting with RAN3/SA5 on trace functionality.
- RAN2 Chairman and Vice-Chairman were re-elected
- Other remarks:

- R99 is still an important part of RAN2 activity, but size and complexity of CRs is decreasing
- Resolving R99 problems takes time but corrections least (or not) affecting current UE implementations are found
- Discussion on interaction between CN paging and RRC out-of-service mechanisms. Discussion is first to identify if we do indeed have a problem; Several scenarios have to be analysed.
- HSDPA complete. Correction phase well under way.
- Significant increase in MBMS activity, with convergence on previously contentious points
- R5 TEIs completed as planned. One last may be allowed for the next meeting.
- RAN WG2 moving towards 4 meetings a year, Some ad-hoc may be needed depending on workload
- Future work should be mainly on: R99 corrections (still), IMS support, MBMS, Release 6 TEIs
- Discussion on interaction between CN paging and RRC out-of-service mechanisms. Discussion is first to identify if we do indeed have a problem; Several scenarios have to be analysed.

On the issue of CN paging and RRC out of service , it was clarified that since this is a cross-groups discussion (CN1, SA2, GERAN and RAN2), an ad-hoc is likely to be organised. TSG RAN Chairman indicated that this ad hoc will be discussed during this week together with the 3GPP TSG CN as well as TSG CN WG1 chair to try to fix the date of this workshop. NEC announced that they are willing to host the meeting in Paris. After discussion with the CN leaders a date was agreed for the 24th and 25th of April to hold the meeting. Invitation and details will be provided later on together with the invitation.

Concerning the Subscriber Trace WI, Antti Toskala (Nokia) objected the conclusion that there is a good understanding of SA WG5 requirements. He agreed that the situation is clearer, but not "good understanding".

Denis clarified that on the MBMS, WG2 will need the confirmation from WG1 on what phys layer channels are to be used.

Regarding the RRC optimization in Rel-5, done currently under the TEI5 WI, Denis explained that the agreement in WG2 was no to accept new optimizations in Rel-5 from this meeting onwards.

Han van Bussel (T-Mobile) questioned the use of the "should" clauses for UE requirements in CRs to 25.331 and asked for the rationale for the choice. Denis explained that roughly half of the cases hold a "should" and the rest are a half "shall" and a half "UE behavior not specified". WG2 does extensive analyze each case, and the "shall" is chosen if there is an agreement between all companies, if there isn't, "should" is left. ~~Three~~ '3' showed the concern of operator on the use of the "should" clauses for UE requirements which will lead inconsistent UE behavior. Han asked for the impact of this on T WG1 test cases. Denis explained that the clauses affected by the "should" statement don't have related tests in T WG1 so far, and WG2 delegates check carefully the existing tests anytime this situation arises.

RP-030019   List of agreed CRs from WG2 (RAN WG2)
This document recollects all the RAN documents with the CRs agreed in RAN WG2.

8.2.~~3~~2   Discussions on decisions from WG2

RP-030109   CRs to TR 25.993 Version 6.0.0 also affecting earlier releases (RAN WG2)

Decision: The CRs are approved

8.2.3 Approval of CRs to Release '99 with linked CRs to Release 4 and Release 5

The following documents contain CRs agreed by RAN WG2:

Tdoc	Title	Decision
RP-030100	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.321	Approved
RP-030101	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.322	Approved
RP-030102	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.324	Approved
RP-030103	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (1)	Approved
RP-030104	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (2)	Approved
RP-030105	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (3)	Approved
RP-030106	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (4)	Approved
RP-030108	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 34.109	Revised 2)

2)   CRs in RP-030108 (CRs23r2, 24r2, 25r2 to 34.109) are all revised in RP-030162

RP-030162   Revision of CRs 023, 024, 025 to 34.109 in RP-030108 (Panasonic)
Decision: The CRs are approved

RP-030146   Proposed CRs (1904, 1905 and 1906 to Rel99, Rel-4 & Rel-5) to 25.331R99 on Correction on GPS navigation model update mechanism (Motorola, Nokia)
These CRs couldn't be agreed, and companies finally reverted to the CRs that had been discussed in WG2 (presented in the doc below)
Decision: The CRs are rejected

RP-030187   Proposed CRs to 25.331R99 on Correction on GPS navigation model update mechanism (Nokia)
It is clarified that the CR numbers on the CR coversheets are correct, the cover document holds incorrect numbers.
Decision: The CRs are approved

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

The following documents contain CRs agreed by RAN WG2:

Tdoc	Title	Decision
RP-030110	CRs (Rel-4 and Rel-5 Category A) to TS 25.305	Approved
RP-030111	CRs (Rel-4 and Rel-5 Category A) to TS 25.331	Approved

8.2.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG2:

Tdoc	Title	Decision
RP-030112	CRs (Rel-5) to TS 25.302	Approved
RP-030113	CRs (Rel-5) to TS 25.306	Approved
RP-030114	CRs (Rel-5) to TS 25.308	Approved
RP-030115	CRs (Rel-5) to TS 25.321	Approved
RP-030116	CRs (Rel-5) to TS 25.322	Approved
RP-030117	CRs (Rel-5) to TS 25.331	Approved

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

The following documents contain CRs agreed by RAN WG2:

Tdoc	Title	Decision
RP-030118	Linked CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.306, TS 25.331 and TS 25.101 on variable Tx/Rx frequency separation in 1800 and 1900 band	Not approved 3)
RP-030119	Linked CRs (Rel-5) to TS 25.331 and TS 25.423 on HS-DSCH midamble shifts and burst types	Approved
RP-030120	CR (Rel-5) to 25.331 on Group release (without security)	Approved 4)

3)   Per Beming (Ericsson) argued against approving the CRs to 25.101 in RP-030118 as they are now, since that would put 25.101 in misalignment with 25.306, and proposed the revisions below. Motorola expressed concern on Ericsson's RP-030167, is on moving what is currently in an informative annex to the main body of 25.101, and hence making it mandatory. NEC asked for the operator's view on having the variable duplex in Rel99. Vodafone commented that it was indeed the requirement of operators, but it was later moved to non-mandatory due to complexity reasons. Finally, it is agreed to study the issue further. WG4 has to examine the impact on performance requirements when the separation is very narrow, and although it is suggested to produce CRs for next TSG RAN, it seems difficult that an agreement could be reached if the performance is actually impacted
All of the CRs in RP-030118 are rejected

RP-030167   Revision of CRs 207, 208, 209 to 25.101 (RP-030118) on "Variable Tx/Rx frequency separation" (Ericsson)
Decision: The CRs are not approved

4)   Ericsson agreed to make available the CRs to WG3 specification on Group Release, which ~~had been endorsed by WG3 three months ago but~~ couldn't be reviewed again at last WG3 meeting (and then are not presented here as WG3-agreed). The intention is to approve all CRs related to Group Release together.
It seems that WG3 could not reach an agreement on its CRs, so as a way forward the WG2 CRs are approved and WG3 CRs will be presented at the next RAN meeting. It is clarified that WG3 will produce Rel-5 CR.

8.3   TSG RAN WG3

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

RP-030052   Status report WG3 (RAN WG3 Chairman)
Martin Israelsson (WG3 chairman) presented this report. WG3 activity can be summarized as follows:
-   The amount of R99 & Rel-4 CRs has stabilized.

- 7 R99 + Rel-4 and Rel-5 mirror CRs
- 18 Rel-4 + Rel-5 mirror CRs   (majority TDD)
- 28 Rel-5 only CRs   (majority HSDPA and TDD)
- R99 +mirror CRs requires less than 20% of meeting time.
- Technically correct Early UE CR(s) are available.
- Progress on RAN3 Rel-6 topics has been low despite the separate Rel-6 adhoc.
- Election of new chair performed. New chair from RAN3#35 is Alexander Vesely (Siemens).

Regarding CR035 to 25.435 on SCCPCH power setting (slide 18), Martin clarified that it is a Rel-5 only topic in WG3.

There seems to be some confusion about new measurements being defined in WG3 for HSDPA. Denis Fauconnier (Nortel) clarified that no new physical measurement is being defined, WG3 is discussing new measurement reports that the NodeB is sending to the RNC. Antti Toskala (Nokia) questioned if WG3 is intending to do that new measurement reports in Rel-5 or Rel-6, and asked WG3 to inform RAN on the progress and timescales of the work. He suggested that a Rel-6 HSDPA WI might be necessary.

RP-030053   List of agreed/technically correct CRs from WG3 (RAN WG3)
This document recollects all the RAN documents with the CRs agreed in RAN WG3.

8.3.2   Discussions on decisions from WG3

No discussions

8.3.3   Approval of CRs to Release '99 with linked CRs to Release 4 and Release 5

The following documents contain CRs agreed by RAN WG3:

Tdoc	Title	Decision
RP-030054	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.414 on TCP Port Number	Approved
RP-030055	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 on Support of Cell Individual Offset in RNSAP	Revised 5)

5)   Several successive revisions (RP-030160, RP-030168 & RP-030183), the CRs were discussed in WG3 reflector. The CRs in -RP-030055 are not approved

RP-030183   Revised CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 on Support of Cell Individual Offset in RNSAP (Ericsson)
Decision: The CRs are approved

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

The following documents contain CRs agreed by RAN WG3:

Tdoc	Title	Decision
RP-030056	CRs (Rel-4 and Rel-5 Category A) to TS 25.413	Approved
RP-030057	CRs (Rel-4 and Rel-5 Category A) to TS 25.419 on Correction of Write and Replace functions	Approved
RP-030058	CRs (Rel-4 and Rel-5 Category A) to TS 25.423	Approved
RP-030059	CRs (Rel-4 and Rel-5 Category A) to TS 25.433 on Correction of PRACH Midamble for 1.28Mcps TDD	Approved

8.3.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG3:

Tdoc	Title	Decision
RP-030060	CRs (Rel-5 only) to 25.413	Approved
RP-030061	CR (Rel-5 only) to 25.414 on Minor cleanup of 25.414	Approved
RP-030062	CRs (Rel-5 only) to 25.423	Approved
RP-030063	CR (Rel-5 only) to 25.433 on HS-PDSCH Code and Timeslot Resource Assignment for TDD	Approved
RP-030064	CR (Rel-5 only) to 25.435 on S-CCPCH power setting in case of no data transmission	Not approved 6)
RP-030065	CRs (Rel-5 only) to 25.453	Approved

6)   Ericsson objected the CR and provided the document below as justification. After discussions (see below), the CR is not approved

RP-030159   Definition of TFCI transmit power on S-CCPCH in case of no data (Ericsson, NTT DoCoMo)

Dirk Gerstenberger (Ericsson) presented this document

In Ericsson's view, it is not necessary to specify the power level of the channel when not transmitting data, since the benefits for UE power saving and impact on system operation is negligible. Ericsson proposes not to approved the CRs in RP-03064. Philippe Sehier (Alcaltel) and Jim Miller (WG3 vice-chairman) objected that the power saving argument wasn't the only one when the CR was agreed in WG3, the NodeB behaviour as of today is unspecified, and also there was a requirement from WG1 to align specifications. Antti Toskala (Nokia) agreed with Ericsson that there is not a huge system impact, thus there is no need for a Rel99 change, but supported to have a clarification in a later Release.

No agreement could be reached off line, WG1 is tasked to study the issue and inform WG3 of the conclusion. The CRs in RP-030159 are not approved

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

The following documents contain CRs agreed by RAN WG3:

Tdoc	Title	Decision
RP-030066	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 and 25.433 on Corrections to DCH Combining in RL SETUP and RL ADDITION	Approved
RP-030067	CRs (Rel-4 and Rel-5 Category A) to TS 25.413, 25.423 and 25.453 (only Rel-5) on Alignment of "Uncertainty Ellipse" with RRC	Approved
RP-030068	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Clarification to DL Power definition for TDD	Approved
RP-030069	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Clarification to 2nd Interleaving Mode for TDD	Approved
RP-030070	CRs (Rel-4 and Rel-5 Category A) to TS 25.423, 25.433 and 25.453 (Rel-5 only) on Correction for the Information Exchange Initiation procedure	Approved
RP-030071	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Midamble Configuration for Midamble Shift LCR	Approved
RP-030072	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on TPC Step Size for TDD	Approved
RP-030073	CR (Rel-5 only) to TS 25.423 and 25.433 on Clarification of HS-SCCH power offset usage in case of multiple HS-SCCHs	Approved
RP-030074	CR (Rel-5 only) to TS 25.423 and 25.433 on T1 signalling for HSDPA	Approved
RP-030075	CR (Rel-5 only) to TS 25.425 and 25.435 on Clarification for the flow control	Approved
RP-030076	CR (Rel-5 only) to TS 25.423 and 25.433 on Guaranteed Bit Rate for HSDPA	Approved
RP-030077	CR (Rel-5 only) to TS 25.423 and 25.433 on Correction to DL Tx Power for TDD	Approved
RP-030078	CR (Rel-5 only) to TS 25.423 and 25.433 on HS-PDSCH Corrections for TDD	Approved
RP-030079	CRs (R99 and Rel-4/Rel-5 Category A) to TS 29.108 linked to CN1 on Corrections to the list of RANAP messages transferred on the E-interface	Approved 7)
RP-030080	CR (Rel-5 only) to TS 25.423 and 25.433 linked to RAN1 (25.225) on Measurement for HS-SICH Outer Loop Power Control	Approved
RP-030081	CR (Rel-5 only) to TS 25.433 linked to RAN1 (25.215) on HS-DSCH: addition of non-HS-DSCH power measurement	Approved
RP-030082	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 and 25.433 linked to RAN2 (25.331) on Corrections to Channelisation Code TFCI Mapping for TDD	Approved

7)   These CRs are linked to CN WG1 CRs that have also been approved

8.4   TSG RAN WG4

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

RP-030023   Status Report WG4 (RAN WG4 Chairman)
Howard Benn (WG4 chairman) presented this report. WG4 activity can be summarized as follows:
- Howard Benn agreed to remain as chair for a further 2 years since there were no other candidates
- 1 RAN WG4 meeting after the last RAN meeting
- Usual number of delegates (around 80),
- 352 input contributions
- Corrections to the specification (cat F numbers)
  - Release 99 -   15 CRs
  - Release 4 -   6 CRs
  - Release 5 -   21 CRs
  - Release 6 – 8 CRs
- There will be one WG meeting before the next plenary.
- Release 99 issues:

- Cell Identification
- Layer 3 filter
- HSDPA
  - 7 remaining open actions on testing the variable reference channel
  - RAN 4 request 1 more plenary to complete the work
  - Any tests not completed by next plenary will go into Rel-6
- Other issues
  - Additional bands
  - CISPR document on emissions of IT equipment in the UTRAN bands

Howard clarified the HSDPA requirements and test that are not finished by June would be left for Release 6. Howard explained that the current test of HDPA cover the fixed channel, where the response of the HSDPA system to the variable conditions of the radio channel is not tested. The work on test of the HSDPA considering variable channel is still ongoing and might not be finished by June. Per Beming (Ericsson) objected the approach of postponing to Rel-6 any test that is late, the basis for the decision should be whether the test is essential or not. Giovanni Romano (~~TIM~~Telecom Italia) also agreed with this view. Per commented that, for example, if in the future RRM test are deemed to be essential, they should be included in Rel-5.

There was considerable debate on the issue, and Howard recommended to look at the status report which lists the actual pending tests. The common view was that the deadline of next meeting is mainly to put pressure in WG4 to finish the tests. Although for the time being no new tests are under discussion in WG4, if a company believes that a new test is necessary in Rel-5 and WG4 agrees, it will be included in Rel-5.

Considering the additional frequency bands, Howard clarified that the intention is that the work is carried on in WG4, although some of the regional organizations proposing the new bands may carry their own simulation work.

Howard clarified that the FDD BS Classification work is almost 100% completed, some CRs are presented to this meeting, basically in the area of max. output power.

Jussi Numminen (Nokia) noted that the area of the new bands needs some careful examination previous to starting the simulations, since it is clear that there commonalities, the channel for example will not change much for the bands under 1GHz.

RP-030024   List of agreed CRs from WG4 (RAN WG4 Chairman)
This document recollects all the RAN documents with the CRs agreed in RAN WG4.

8.4.2   Discussions on decisions from WG4

RP-030020   Emission limits proposed by CISPR for ITE above 1 GHz (Nokia)
Jussi Numminen (Nokia) presented this document.
The document gives the background of the discussions in WG4 on the emission limits being under approval at CISPR for ITE (Information Technology Equipment). It is Nokia's view that these limits do not protect sufficiently WCDMA receivers.

Meik Kottkamp (Siemens) agreed with most of the document but not the conclusion, and noted that, with limited time available and complexity of the subject, ~~that Siemens also have simulations ongoing and~~ it is needed to check the correctness of the simulation from Nokia. This was also the view from

Nortel, so far only the results from Nokia are available, and more companies should provide simulations before proposing a new limit. On this basis, the proposed LS in RP-030021 is objected.

It was argued that a LS directly to CISPR is not the preferred way, WG4 is the group where the issue can be discussed and eventually companies can agree on an unified view, but the way to influence CISPR has to be companies contacting their national delegation and trying to steer their vote in CISPR. However, finally it is agreed that WG4 can, if participants agree, send a LS to CISPR.

RP-030021   Draft LS on the CISPR limits for ITE over 1GHz (Nokia)
Decision: The draft LS is withdrawn

RP-030172   Background information of L3 filtering simulation results (Nokia)
RP-030097   Layer 3 filtering definition (Nokia)
Jussi Numminen (Nokia) presented this document
As a first commentCommenting on the procedure followed by Nokia, Motorola and Qualcomm objected that the agreement was no to present a Rel-4 CR.

RP-030165   L3 Filtering (Qualcomm)
Serge Willenegger (Qualcomm) presented this document

Edgar Fernandes (Motorola) commented that the current performance requirements are specified with the L3 filtering switched off, so it actually doesn't matter too much what filter is used since the performance offered by the UEs is specified regardless. This view was rejected by Ericsson, as currently are many matters specified and mandated that don't have a performance requirement.

After an indicative vote, it seemed that the majority of the group agreed on the Rel-5 CR on RP-030097. The Rel-4 CR on the same document was rejected. Document RP-030201 contains the Rel-5 CR with a number allocated and the cover page updated
Decision: The documents are noted

RP-030201   Layer 3 filtering definition (Rel-5 CR1910 to 25.331) (Nokia et al)
Decision: The CR is approved

RP-030171   Cell Identification Requirements (NEC)
Jean Francois Labal (NEC) presented this document
Takehiro Nakamura (NTT DoCoMo), as co-source, argued in favor of having a reduced set of patterns to simplify Interoperability Testing. Jussi Numminen (Nokia) agreed with the IOT purposes, but on the side conditions for the proposed patterns he noted that it is a very complicated issue, still under discussion in WG4, and suggested not to explicitly request WG4 to define the side conditions. Ericsson commented that the side conditions are already there, 120 kph UE speed and the existing BS clock drift requirements.
It is unclear where the side conditions should be incorporated, as the usual procedure is to have it in the test case and not the core requirement. Edgar Fernandes (Motorola) agreed to have the core requirements sufficiently general and formulate a few test with their associated parameters. However, Edgar agreed to have side conditions on the core requirement since, as they are now, they are meaningless as the scenario where they have to be met is undefined.

Han van Bussel (T-Mobile) explained that operators are likely to base their network settings on the requirements as written on the core specification, it can be understood that under some extreme conditions the performance will not meet the specification.

Mony Kochupillai (~~Three~~'3') raised the problem on how an operator can specify the requirement that its UE providers have to fulfill in this area. He questioned if he would have to specify it in terms of the test cases, since the core requirement is too general.

Qualcomm understands that the general requirements should apply by default. However for the most demanding combinations, test cases could be defined based on different requirements.

It seems to be agreed that the core requirements would be kept general, but for extreme conditions or cases particular test and side conditions would be set.

Finally, the following decision was agreed:

> *In Rel-5, in addition to general requirements, a set of test cases for different environment will be introduced to further clarify the expected UE behaviour. In process of Rel-5 test cases WG4 may add clarifications on the applicability in the core requirements.*

8.4.3 Approval of CRs to Release '99 with linked CRs to Release 4 and Release 5

The following documents contain CRs agreed by RAN WG4:

Tdoc	Title	Decision
RP-030025	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.101	Approved
RP-030026	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.123	Approved
RP-030027	CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.133	Approved
RP-030028	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.142	Approved
RP-030029	CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.104 & TS 25.141 on "Protection of FDD BS receiver"	Approved
RP-030030	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.105 & TS 25.142 on "TDD - GSM co-existence in the same geographic area"	Approved
RP-030031	CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.133 on "Correction of UE parameters for Random Access test" (Linked to CR239 to TS34.121 in TP-030045)	Approved

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

The following documents contain CRs agreed by RAN WG4:

Tdoc	Title	Decision
RP-030032	CRs (Rel-4 and Rel-5 Category A) to TS 25.101	Approved
RP-030033	CRs (Rel-4 and Rel-5 Category A) to TS 25.123	Approved
RP-030034	CRs (Rel-4 and Rel-5/Rel-6 Category A) to TS 25.133	Approved
RP-030035	CRs (Rel-4 and Rel-5/Rel-6 Category A) to TS 25.104 & TS 25.141 on "Correction to external equipment definition"	Approved
RP-030036	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 (Repeaters specifications) on "FDD - GSM co-existence in the same geographic area"	Approved

8.4.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG4:

Tdoc	Title	Decision
RP-030037	CRs (Rel-5) to TS 25.101	Approved
RP-030038	CR (Rel-5) to TS 25.102	Approved
RP-030039	CR (Rel-5) to TS 25.113	Approved
RP-030040	CRs (Rel-5) to TS 25.133	Approved
RP-030041	CRs (Rel-5 and Rel-6 Category A) to TS 25.141	Approved
RP-030042	CRs (Rel-5) to TS 25.142	Approved
RP-030043	CR (Rel-5) to TS 34.124	Withdrawn 8)
RP-030044	CRs (Rel-5 and Rel-6 Category A) to TS 25.104 & TS 25.141 on "Clarification of the WCDMA interferer definition for ACS and blocking requirements and tests"	Approved 9)
RP-030045	CRs (Rel-5) to TS 25.105, TS 25.142 & TR 25.952 on "The definition of UTRA TDD BS classes"	Approved

8)   It was had been discussed on WG4 reflector that the correction should be included in Rel99 and Rel-4 also. No objection was raised, then Ericsson produced a revised CR to Rel-5 (to change the category and WI), and the Rel99 and Rel-4 CRs. These are presented in document RP-030144.

RP-030144   CRs (R'99 and Rel-4/Rel-5 category A) to TS 34.124 on "Correction to radiated spurious emission measurement bandwidth" (Ericsson)

Decision: The CRs are approved

9)   Category and WI Acronym on the cover sheet of CR179 to 25.104 are incorrect
        WI Acronym on the cover sheet of CR 183 to 25.104 is incorrect

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

No contributions

8.5   TSG RAN ITU-R Ad Hoc

RP-030090   Status Report, RAN ITU-R Ad Hoc (ITU-R Ad Hoc Contact Person)
Giovanni Romano (TIMTelecom Italia) presented this report.
Decision: The report is noted

RP-030174   Proposed Initial submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)
Giovanni Romano (TIMTelecom Italia) presented this report.
Said Tatesh (Lucent) noted that there is inconsistency on what is provided to ITU, WG1 agreed not to provide Feasibility Studies but it seems that WG4 had a different view. Howard Benn (WG4 chairman) clarified that the FS for "viable deployment of UTRA in additional and diverse spectrum arrangements" was included due to the particular interest of ITU on the topic. Nortel and Siemens objected the list presented also, since some of the topics will not be finished by the deadline. Giovanni explained that this is a first informative paper, it is not the final submission which will be in September. Giovanni also clarified that the inputs come from the WGs, RAN ITU-R is just receiving and compiling the information from the WGs.
Concerning the new bands to be investigated, it is agreed to mention the American 850MHz band, the Japanese 800 MHz band and the 1.7/2.1 GHz arrangement as proposed in RP-030098.
After on-line corrections, the document is approved as in RP-030176.
Decision: The document is revised

RP-030092   Proposed response to ITU-R WP8F on coexistence Between IMT-2000 TDD and FDD Radio Interface Technologies Within the Frequency Range 2 500-2 690 MHz Operating in Adjacent Bands and in the Same Geographical Area (ITU-R Ad Hoc)

Giovanni Romano (Telecom Italia~~TIM~~) presented this report.

Decision: The document is approved

RP-~~030093~~030175   Proposed updated information on the Roadmap (ITU-R Ad Hoc)

Giovanni Romano (Telecom Italia~~TIM~~) presented this report.

It is clarified that this is a proposed update for the ITU-R Roadmap, not ITU-T IMT-2000 Roadmap. The document need to be corrected to include the bands as agreed above for the revision of Recommendation M.1457.

Decision: The document is revised

RP-030176   Proposed Initial submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU-R M.1457 (TSG RAN)

RP-030177   Proposed updated information on the Roadmap (TSG RAN)

Decision: The documents are approved.

RP-030092, RP-030176 and RP-030177 will be provided to 3GPP PCG by TSG RAN chairman for final approval before submission to ITU-R.

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

Many of the Work Items under TSG RAN responsibility have had their completion date changed, this caused a generalised concern on the accuracy of the estimates given by the rapporteurs and WGs, which lead to an incorrect perception of the timing of the whole 3GPP Work Plan. It is requested that the dates suggested in the WI Description Sheets are as realistic as possible, and that WG provide date updates according with the real work pending, in particular avoid changing the dates every few months.

RP-030157   Work Item and Study Item Description Sheets (3GPP Support)

Document provided for information

9.1   Radio Interface Improvement Feature

9.1.1   Improvement of inter-frequency and inter-system measurements

RP-030151   Status Report for WI "Improvement of inter-frequency and inter-system measurements" (Rapporteur (Nokia))

Antti Toskala (Nokia) presented this report

Antti explained that the WI in WG1 has very little work, but the WI has a impact on RNC performance that needs to be assessed by WG3.

It was commented that background information is lacking, Antti agreed to bring a list of documents together with the next status report

The proposed completion date in RAN#21 in September is approved

Decision: The report is noted

9.1.2   Terminal power saving features

RP-030007   Status Report for WI "Terminal power saving features" (Rapporteur)
Denis Fauconnier (Nortel) presented this report
No work under this feature. It was discussed that no work has ever been done, so the need to keep it is unclear. Arguments to keep the WI open suggested that it is easier to produce work on the area if the WI exists already, instead of creating a new WI Description Sheet and getting it approved. It was objected that this doesn't have to be a problem, actually it should be the way to go.

It was finally approved to close it and move it to the Historic WIs file, but it was agreed that it could be brought back to "active" state in the future if work is identified.
Decision: The report is noted

9.1.3   Multiple Input Multiple Output antennas (MIMO)

RP-030012   Status Report for WI "Multiple Input Multiple Output Antenna" (Rapporteur (Lucent))
Said Tatesh (Lucent) presented this report
Han van Bussel (T-Mobile) questioned why MIMO only applies to HSDPA, since it was supposed to be generic. Said explained that historically the work was intended for HSDPA, although when approved the WI Description Sheet was generic, so it is actually not restricted to HSDPA. However, it was also noted that the technology, from a practical perspective, applies to high data rates hence HSDPA.
Said anticipated that WG4 will have to look at the performance aspects. From WG4 perspective, Howard Benn (WG4 chairman) warned that it would take 3 or 4 meetings before WG4 can complete its part of the work. The concept of testing multiple antenna would require considerable effort there.
Decision: The report is noted

RP-030148   updated MIMO WI sheet (Lucent)
Said Tatesh (Lucent) presented this WIDS
It was suggested that separate Work Tasks are created for the work in the different WGs, notably in WG4.
Serge Willenegger (Qualcomm) commented that UL MIMO is different than the DL MIMO. The MIMO SI was focused on DL only and resulted in the WI for DL MIMO, consequently Qualcomm is not supporting to include UL in the WI..
Nortel required that all the specifications that could be changed are listed in the WIDS
Han van Bussel (T-Mobile) commented that a clear definition of the scope should be agreed in this meeting. At this point, it is unclear if the work covers downlink or uplink also, or if it is intended for HSDPA or it is generic.

Howard Benn (WG4 chairman) reminded of previous situations when WG1 produced work without consulting the other WGs, and system impact hadn't been properly assessed. In this case, there are implications for RRM, for the performance requirements, impact on existing features that need to be examined.

It was agreed that Lucent will present a new WIDS for the building block, identifying the scope and the work to be carried on by the different WGs. Then the WGs will have to look at it and agree on the WIDS for their particular tasks. The list of affected specifications will be in those WIDS, not the top level one.
Decision: The updated WIDS is not approved

RP-030181   updated SCM TR 25.996 v1.0.0 "Spatial Channel Model for Multiple-Input Multiple-Output Simulations" (Lucent)

Said Tatesh (Lucent) presented this TR

The TR is presented for information here.

Hidetoshi Suzuki (Panasonic) asked where the task of SCM is defined, in 3GPP or 3GPP2. Said clarified that it is within SCM.

Decision: The TR is noted

RP-030192   Updated MIMO WI sheets (Lucent)

Said Tatesh (Lucent) presented this WIDS

Han van Bussel (T-Mobile) questioned if the work on WG4 is considered when setting the completion date to September. It was clarified that the WG4 needs 6 additional months, so the WIDS for the RF part will be updated accordingly

It is objected that Iur impacts not considered. This seems to be an editorial error, as Iub and Iur are together in the title of the WI for WG3.

Nokia commented that the statement "significant performance gains with acceptable impact to both UE and UTRAN" is not only dependant on the method proposed and cannot be generalized.

Decision: The 5 WIDSs are approved

9.1.4   Improving Receiver Performance Requirements for the FDD UE

RP-030050   Status Report for WI "Improving Receiver Performance Requirements for the FDD UE" (Rapporteur (Intel))

Howard Benn (WG4 chairman) presented this report

If no contributions are presented, the rapporteur proposes to close the WI at the next RAN meeting.

Decision: The report is noted

9.1.5   UMTS 850

RP-030163   Status Report for WI "UMTS 850" (Rapporteur (Cingular))

Don Zelmer (Cingular) presented this report

Serge asked for clarification on the split of responsibility between 3GPP and T1P1. Don agreed to make available the T1P1 Nokia document where the Work Plan is described.

Decision: The report is noted

RP-030182   Updated UMTS850 WIDS (Cingular)

Don Zelmer (Cingular) presented this report

~~Three~~ '3' asked to explicitly clarify that the work is not intended for ITU region 1. In general, ~~Three~~ '3' raised serious objections to adding more bands, which will eventually affect the business plan of companies having paid for UMTS licenses in the core bands. Hashem Madadi (~~Three~~'3') requested the chairman to report these concerns to 3GPP PCG. Eisuke Fukuda (vice chairman) reminded that the regulatory issues and the assignment of bands is not a task of 3GPP. Here, 3GPP simply had the request from T1P1 to produce the technical material for using the technology in that band. Howard Benn (WG4 chairman) also supported this view.

On the request to report to PCG, the chairman clarified that the answer there would be the same as in TSG RAN, 3GPP is producing standards and not regulations, furthermore, 3GPP is mandated to comply with the regulatory requirements from the partners, which is the case here. The chairman reminded that, in the particular case of Europe, the Harmonised Standard used is an extract of the 3GPP specifications having removed the bands that are not allocated in Europe. '3' requested the

Qualcomm commented that the action "define requirements for co-existence" allocated to T1P1 (Proposed Work Plan) is not correct, since it is the FCC who defines the requirements in the US. Qualcomm preferred to state it as "provide requirements" instead.

Finally, an agreement was reached off line to remark that the new band applies only to Region 2. This will be brought to the attention of the 3GPP TSG SA and the PCG by the chairman. For any band for which a WI is proposed, the region of application will be explicitly statedThis will also be true for all new bands incorporated for specific region or countries.
Decision: The WI Description Sheet is revised.

RP-030197   Updated UMTS850 WIDS (Cingular)
Francois Courau (chairman) presented this WIDS
The objective has been updated to explicitly indicate that the WI only applies for deployment in ITU Region 2.
Decision: The revised WI Description Sheet is approved.

9.2   RAN Improvement Feature

9.2.1   Radio access bearer support enhancement

RP-030006   Status Report for WI "Radio access bearer support enhancement" (Rapporteur)
Antti Toskala (Nokia) presented this report
Rel-5 work is finished, no work has been identified for Rel-6. Antti explained that no work is foreseen.
Meik Kottkamp (Siemens) suggested that the work on voice over IP bearers could enter in this WI, so it is useful to keep it open.
Decision: The report is noted

9.2.2   Improvement of RRM across RNS and RNS/BSS

RP-030083   Status report for WI 'Improvement of RRM across RNS and RNS/BSS (Post Rel-5)' (RAN WG3)
Sami Kekki (Nokia) presented this report
Sami Kekki is appointed new rapporteur of this WI.
It is agreed to move the completion date to RAN#22
Decision: The report is noted

9.2.3   Beamforming enhancement

RP-030088   Status Report for WI "Beamforming enhancements" (Rapporteur (Nokia))
Antti Toskala (Nokia) presented this report
Evelyne Le Strat (Nortel) reminded that there is no support in the Iub for the Rel99 beamforming, not to talk about enhancements. She noted also that there are a few questions from WG1 to WG3 that haven't been solved, it seems that the progress in WG3 on this topic is very slow. Antti agreed that the support for the Rel99 beamforming in the NodeB is the highest priority, given that beamforming support is part of Rel99 for UEs. Martin Israelsson (WG3 chairman) explained that many contributions had been presented, but so far companies hadn't been able to reach an agreement.

The section regarding WG4 was clarified, the discussion in WG4 concerned the definition of "cell portion", and the agreement there was that not new performance requirements are needed.
Decision: The report is noted

9.2.4 RRM optimizations for Iur and Iub

The FS on Improved Access to UE Measurement Data for CRNC to support TDD RRM come under this Feature. Apart of that FS, nothing else is included in this basket Feature. No status report is provided.

9.3 UE Positioning

9.3.1 UE positioning enhancements

No contributions

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

RP-030008   Status Report for WI "Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods" (Rapporteur (Siemens))
Meik Kottkamp (Siemens) presented this report
The level of completion is 90%, Meik explained that the pending issues are very minor and suggested to close the WI; the pending issues will be presented at the next RAN as correction CRs. Lucent requested an extension to RAN#22. As a compromise, it is agreed to modify the completion date to RAN#20.
Decision: The report is noted

RP-030084   CRs (Rel-6 only) to TS 25.401, 25.450, 25.452, 25.453 on Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods (RAN WG3)
Meik Kottkamp (Siemens) presented these CRs
The CRs can be approved now, as the pending issues mentioned above do not affect them directly.
Decision: The CRs are approved.

9.4 High Speed Downlink Packet Access (HSDPA)

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

RP-030096   Status Report for WI "High Speed Downlink Packet Access (HSDPA-RF)" (Rapporteur (Motorola))
Edgar Fernandes (Motorola) presented this report.
There were comments about the need to keep the RRM test/requirements in Rel-5, even if they are identified after June; but it is unclear what the missing RRM test are, since no new test has been proposed to WG4.

It is agreed to move the completion date to June 2003.

Hidetoshi Suzuki (Panasonic) commented upon the maximum power, some work is necessary in WG2 and WG4 on uplink TFC selection when HS-DPCCH is activated. There was a objection that such work is not necessary. After off line discussions, it is agreed that the issue needs to be studied in the concerned groups.

Decision: The report is noted

RP-030046   CRs (Rel-5) for WI "High Speed Downlink Packet Access" (FDD UE) (RAN WG4)

RP-030047   CRs (Rel-5) for WI "High Speed Downlink Packet Access" (TDD UE) (RAN WG4)

Howard Benn (Motorola) presented these CRs

Decision: The CRs are approved.

9.5 Enhancement of broadcast and introduction of Multicast Capabilities in RAN

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

RP-030143   Status Report for WI "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN" (Rapporteur (Nokia))

Dimitris Koulakiotis (Nokia) presented this report

Giovanni Romano (~~TIM~~Telecom Italia) reminded of the requirement expressed in last RAN for WG3 to have time in the meeting for the MBMS, which doesn't seem to be fulfilled. Since it seems that there are few meetings in WG2 and WG3 between now and September, and suggested to have a dedicated Ad Hoc meeting.

Decision: The report is noted

RP-030015   Update of Work Item Description sheet on "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN" (Nokia)

Dimitris Koulakiotis (Nokia) presented this report

It is clarified that the outcome of the work item is the stage 2 TS, which is a RAN-only stage 2. After completion of the stage 2 work, the affected specifications for the CRs will be listed.

It was agreed that TR 25.992 will be kept under the only responsibility of WG2.

There was some discussion on the completion date, as the proposed September deadline was believed too ambitious. ~~Three~~ '3' argued that the work in WG3 can advance fast enough, now that no other big WI is under work there. ~~Three~~ '3' also reminded about the bad reputation of 3GPP when setting deadlines, and recommended to make an effort to fulfil this one. Denis Fauconnier (Nortel) agreed to keep the date as is, but reminded that this only shows the expectation, it doesn't mean necessarily that it will be achieved. The WGs will do their best work, but it can't be guaranteed. Finally, it was agreed to keep it in December and eventually review it in June.

Qualcomm suggests that WG1 has secondary responsibility for stage 2 TR. Nokia questions the proposal. Qualcomm clarifies that given the high level issues that impact physical layer UE capability and possibly other physical layer impacts it is important for WG1 to be ~~involved~~given secondary responsibility. ~~Three~~ '3' argued against, as this would simply delay the work. Denis argued that if WG1

is included, GERAN WG1 should be also; he reminded that if these groups are added, any change to the TR would have to be approved by them also. It is finally agreed not to add WG1. However, it was reminded that even though prime responsibility is allocated to one WG, this shall not prevent any work in other WGs. Rather the responsible WG shall gather the information of the work progress in any other WG for its report to the plenary. WG chairs are tasked to ensure that this is the case.

It is agreed that the completion date is September 2003, although it is noted that the completion date for the global stage 2 in SA WG2 is September. It is doubtful that ~~the~~ stages 2 and 3 in RAN ~~could~~ can be completed if SA WG2 agrees in parallel on changes to the architecture ~~in parallel~~.

~~Two Ad Hocs are~~A tentative Ad Hoc is scheduled: ~~23-24 April joint Ad Hoc with CN, and~~ 24-25 June RAN only.
Decision: The revised WIDS is approved

RP-030016   3GPP TR 25.992 v1.3.0: "Multimedia Broadcast/Multicast Service (MBMS); UTRAN/GERAN requirements" (Nokia)

Dimitris Koulakiotis (Nokia) presented this TR
Dimitris gave a brief explanation of the MBMS work as it is now, no comments were raised.
Decision: The document is noted

9.6   Evolution of the transport in the UTRAN

RP-030179   IP/ ATM interoperability (Siemens)

Alexander Vesely (Siemens) presented this document
Alexander explained that there is still work to be done under this WI on the field of IP/ATM interworking, and proposed to follow the work being done by ITU-T. Siemens asks RAN to endorse this approach.
Sami Kekki (Nokia) noted that there are other solutions for the option 3 under study in WG3, notably Alcatel has presented a solution alternative to the ITU-T approach, and it seems that it is not clear yet in WG3 which is the best solution. Alexander commented that the solution proposed by Alcatel rather covers interworking option 1 (dual stack nodes). It was noted that if RAN is asked to select a proposal, the different options have to be presented. Finally, it is agreed to bring the discussion back to WG3, TSG RAN doesn't endorse any particular solution.
Decision: The document is noted

Since work is identified under this generic feature, WG3 will have to produce an status report for the next TSG RAN meeting.

9.7   Technical Small Enhancements and Improvements

RP-030048   CRs (Rel-6) for WI "Technical Enhancements and Improvements" (RAN WG4)
Decision: The CRs are approved

> Note: Document RP-030048 contains CR201 to 25.101 Rel-6, which effectively generates the Rel-6 version of this specification. It was agreed in TSG RAN meeting #16 to keep CR166 to 25.101 Rel-6 ("FDD UE Performance Requirements", RP-020300) on hold until the Rel-6 version of the specification was created. This is the case now, so CR166 will also be implemented together with CR201.

9.8　Closed Rel-6 Work Items

RP-030049　CRs (Rel-6) for WI "FDD BS Classification" (RAN WG4)
Decision: The CRs are approved

RP-030155　TR 25.951 v2.0.0 "FDD BS classification" (RAN WG4)
Antti Toskala (Nokia) presented this TR.
It was commented that the proper procedure is to have the TR presented before the CRs, so TSG RAN can have a view of the work done before approving the actual changes. However, in this particular case, it is reminded that the reason for approving the CRs was the request from ETSI MSG.
Decision: The TR is approved, it will be brought under Change Control as version 6.0.0

9.9　Study Items

9.9.1　Radio link performance enhancements

RP-030089　Status Report for SI "Radio link performance enhancement" (Rapporteur (Nokia))
Antti Toskala (Nokia) presented this report.
The references to TSG RAN WG1 TRs (or draft of those) were noted to be missing were agreed to be included in the meeting report:
-   HSDPA enhancements TR 25.899, the latest version is in R1-030373
-   TX diversity TR has not yet allocated Tdoc number for the latest update but is expected to be based on R1-021441 and the text proposal in R1-030333.
-   For TR 25.898, proposed (not yet agreed) structure is in R1-030329. No actual methods yet contained in the TR
Decision: The report is noted

9.9.2　Fast Cell Selection (FCS) for HS-DSCH

RP-030154　Status Report for SI "Fast Cell Selection" (Rapporteur (Lucent))
Said Tatesh (Lucent) presented this report.
Lucent recommended to close this SI, TSG RAN agreed with this proposal.
Decision: The report is noted, the SI is closed.

9.9.3　UTRA Wideband Distribution System (WDS)

RP-030013　Status Report for SI "UTRA Wideband Distribution System (WDS)" (Rapporteur (Tekmar))
Carlo Matarasso (Tekmar) presented this report
It was commented that the completion date is a bit too ambitious, it is agreed to postpone it to September 2003.
Decision: The report is noted

9.9.4　Viable deployment of UTRA in additional and diverse spectrum arrangements

RP-030004　Status Report for SI "Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements" (Rapporteur (Ericsson))

Thomas Unshelm (Ericsson) presented this report.

The completion date is moved to June.

Decision: The report is noted

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

RP-030180 Status Report for SI "Improvement of inter-frequency and inter-system measurement for 1.28Mcps TDD" (Rapporteur (Samsung))

Xiaoqiang Li (Samsung) presented this report

The completion date is changed to September 2003.

Decision: The report is noted

9.9.6 Enhancements to OTDOA Positioning using advanced blanking methods

RP-030011 Status Report for SI "FS on Enhancements to OTDOA Positioning using advanced blanking methods" (Rapporteur)

David Bartlett (CPS) presented this report

Decision: The report is noted

9.9.7 Analysis of OFDM for UTRAN evolution

RP-030161 Status Report for SI "Analysis of OFDM for UTRAN evolution" (Rapporteur (Nortel))

Evelyne Le Strat (Nortel) presented this report

The completion date is moved to December 2003.

The chairman reminded that he must report to the PCG on this Study in April, and asked for documentation that he could bring there. Antti Toskala (WG1 chairman) noted that there are a few WG1 TRs, including the one on OFDM, which have been presented with revision marks but haven't been agreed without by WG1. He suggested to proceed with an email approval in WG1 reflector. Once approved by email the report on OFDM will be provided to the chairman for presentation at the PCG. The chairman clarified that this Study was approved at the PCG, due the different nature of the physical interface studied, and that the PCG had requested to be informed of the progress.

Decision: The report is noted

9.9.8 Uplink Enhancements for Dedicated Transport Channels

RP-030158 Status report for SI "Uplink enhancements for dedicated transport channels" (Rapporteur (Nokia))

Antti Toskala (Nokia) presented this report

It was noted that this file doesn't contain the latest updates agreed in WG1, which contained additional open issues and a different level of completion. Antti agreed to provide the right file.

It is agreed to change the completion date to December 2003.

Decision: The report is revised

RP-030190 Revised status report for SI "Uplink enhancements for dedicated transport channels" (Rapporteur (Nokia))

Decision: The report is noted

9.9.9 Analysis of Higher Chip Rate for UTRA TDD evolution

RP-030094   Status report for SI "analysis of higher chip rates for UTRA TDD evolution" (Rapporteur (IPWireless))

Martin Beale (IPWireless) presented this report

The completion date is changed to December 2003.

Decision: The report is noted

RP-030095   TR25.895 v1.0.0 : Analysis of higher chip rates for UTRA TDD evolution (IPWireless)

Martin Beale (IPWireless) presented this TR

Decision: The TR is endorsed

9.9.10 Evolution of UTRAN Architecture

RP-030085   Status report for SI 'Feasibility Study on the Evolution of UTRAN Architecture' (RAN WG3)

Sami Kekki (Nokia) presented this report

There was some debate on the accuracy of the completion date. It was reminded that the dates have to be taken seriously by the working groups, although the work is contribution driven and some times it is difficult to estimate properly. It has to be considered that the dates and the percentages of completion are input to the 3GPP Work Plan, which is followed and analyzed by organizations out of 3GPP that assume it is an accurate overview of the work. Finally, the completion date is not changed.

Decision: The report is noted

9.9.11 Early UE Handling in UTRAN

RP-030125   LS on Early UE Handling (TSG CN WG1, N1-030201 to RAN WG3, CN WG4, SA WG2, cc TSG RAN, TSG SA, RAN WG2)

CN WG1 clarifies that the information is already available in the CN and the changes to its specifications are minor

RP-030126   LS response on Early Ue Handling (TSG CN WG4, N4-030220, to TSG RAN, RAN WG3, SA WG5 cc SA WG2, CN WG1)

CN WG4 reminds about the link to the Trace Work Item, and suggest to reuse the mechanisms used for the "Early UE" in the Trace WI. Antti Toskala (Nokia) warned that the Subscriber Trace has different requirements, it would be used for a limited number of UEs and additional information needs to be transferred, so it is unclear that the "Early UE" information element could be used for it.

RP-030164   LS on early UE handling (TSG SA WG2, S2-031004, to TSG RAN, cc TSG SA, RAN WG2, TSG GERAN, TSG CN, CN WG1, CN WG4, RAN WG3)

SA WG2 asks TSG RAN to take a clear decision on what has to be send in the information element, as the work in SA WG2 cannot progress in the current blocked situation.

Decision: The LSs are noted

RP-030010   Status Report for the SI "FS for the Early Mobile Handling in UTRAN" (Rapporteur)

Alan Law (Vodafone) presented this report

No comments. Completion date changed to June 2003.

Decision: The report is noted

RP-030003   Early UE Handling (Nokia)
Antti Toskala (Nokia) presented this document
The document raises a number of arguments against considering the Trace WI and the "Early UE" functionality:
- Trace is a function to be used on a few UEs,
- it is still not defined that the IMEI-SV needs to be used for tracing, as other information can be used to identify the UE,
- the WI has not started yet on the RAN side
- Trace is an optional functionality

As a conclusion, Nokia proposes to go for the bitmap solution, but accepting that if this approach doesn't work properly, it is always possible in the future to univocally link IMEISVs to bitmaps.
Decision: The document is noted

RP-030129   Handling of Early Mobiles (~~Three~~'3')
Mony Kochupillai (~~Three~~'3') presented this document.
In this document, ~~Three~~ '3' stresses the importance of taking a decision in this TSG RAN meeting and implementing the solution in Release 99
Decision: The document is noted

RP-030150   Early UE - Proposal for UESBI-Iu encoding (Siemens, Qualcomm)
Alexander Vesely (Siemens) presented this document
Siemens proposes to go for the bitmap solution and presents some modifications to the CRs endorsed by WG3.
Decision: The document is noted

RP-030170   Handling of Early Mobiles (Ericsson, ~~TIM~~Telecom Italia, TeliaSonera)
Per Beming (Ericsson) presented this document
Ericsson remarks the similarities on the requirements of the Trace functionality and the IMEISV solution and finally proposes to adopt this for the "Early UE".
Antti Toskala (Nokia) questioned Ericsson if the assumption is that operators will have to have the Trace functionality to have the "Early UE" solution. Per explained that it can be had separately or together.
Decision: The document is noted

The LSs, Status Report and company contributions above were presented the first day of the meeting to start the debate, no discussion followed.

On Thursday, after off line discussions, the chairman asked for show of hands on which companies would object ~~the preferred~~ to the Iu solutions with the following results:

Companies against the bitmap solution	Around 7
Companies against the IMEISV solution	Around 22

On Friday, a heated debate took place. No agreement was reached on the solution, but it was agreed to ask SA WG2 to provide the full analysis of the architecture for both solutions in time for TSG RAN #20.~~, and~~ TSG RAN will take a decision, either via a vote or an agreement, having all the information from SA WG2.

Alexander Vesely (Siemens) commented on the last version of SA WG2 architecture TR, which doesn't seem quite compliant with the way protocols are specified in WG3 and CN groups.

O2 questioned the sense of approving the CRs as they are now (RP-030086), there are references to a part of an specification that does not exit. There was also debate on what CRs could be approved, Ericsson agreed to approve Rel-5 but not lower Releases. It was objected that it seems strange to implement the CRs to correct faults in Early UE in the latest Release available.
It is proposed to have the feature as Release independent, but there was considerable discussion on what Release independent means. Notably, it is explained that it applies easily to UEs, but networks are generally not deployed according to one Release only. Denis Fauconnier (Nortel) explained also that the concept of "Release independent" should be better phrased as "Optional Feature in Rel99", so the question to TSG RAN is whether a new optional feature can be introduced Rel99, which is frozen for a long time. Denis clarified that there are also impacts on the CN with both solutions, and the Releases where the CRs are incorporated should align between CN and RAN.

Ericsson objected Rel99 and Rel-4 CRs to the core specifications, but agreed to have the contents of the CRs in a Release independent TR.

~~Three~~'3', Telefónica, ~~TIM~~Telecom Italia and Orange agreed with the Release independent approach and requested to adopt a solution in this meeting. A proposal favored by many companies was to approve the Rel-5 CR and produce a Release independent TR, containing all the available technical information, for the next TSG RAN. The TR will include the information for Rel99 and Rel-4

Alan Law (Vodafone) suggested to stop the discussion, since no ~~agreement~~ consensus could be reached on the approval of the CRs, this would allow the CR's to be agreed as a batch in line with the concerns expressed by Three and for the referenced TR in the bitmap proposal to be created in line with the concerns from O2~~and postpone the decision for another 3 months~~. In this case, it seems that a vote will be necessary in the next TSG RAN. Denis summarized that two votes might be necessary, one for the contents of the UESBI and other on the Release, but reminded that SA needs to be aware as the CN changes would have to be implemented on the same Release.

It is finally agreed:
- To ask SA WG2 to study both possibilities (IMEISV & bitmap) from a Core Network perspective and provide WG3 with the results of the study
- To ask SA WG2 to involve WG3 and CN groups on the discussion
- To task WG3 to produce the necessary CRs for both options for all Releases
- Inform CN and SA of the decision to create Release independent TRs (25.994 & 25.995). WG2 is tasked to provide the first version of these TRs for the next TSG RAN plenary.
- Two votes will take place at next TSG RAN, on the Release and on the technical solution, and a decision shall be taken imperatively

It seemed unclear to have Release independent TRs and at the same time Release dependent CRs. Denis further clarified that the TRs will be updated anytime an error is found, so in practice only the document file for one Release will contain all the errors and values of the UESBI and the document files for the other Releases of the TR will point to it. Since the error list will have to be considered for all Releases equally, this will avoid the administrative burden of updating all the files. The CRs, on the other side, need to be approved to a precise specification and precise Release (one or more).

The chairman will inform TSG SA of the current blocked situation and the required actions from SA WG2.

RP-030086   CRs (R99 and Rel-4/Rel-5 Category A) for Early UE handling in UTRAN to 'Transfer UESBI over Iu' (RAN WG3)

Decision: The CRs are not approved

RP-030195   TS 23.195, Version 1.0.0 Provision of UE Specific Behaviour Information to Network Entities (SA WG2)

Document provided for information

9.9.12   Improved access to UE measurement data for CRNC to support TDD RRM

RP-030087   Status report for SI 'Improved access to UE measurement data for CRNC to support TDD RRM' (RAN WG3)

Jim Miller (Interdigital) presented this report

There were some concerns on the possibility to finish the work by June, Jim noted that the work has advanced very fast in the past and similar progress is expected.

Decision: The report is noted

9.10   New Work Items/Study Items

RP-030022   Proposal for New Work Item "Remote Control of Electrical Tilting Antennas" (Vodafone)

Volker Hoehn (Vodafone) presented this new WI

Antti Toskala (Nokia) recommended that AISG is not mentioned at all in the WI itself, due to the strange nature of the group but also because other solutions have to be considered also. Antti expressed concern on the completion dates as well.

Donglin Shen (ATT) questioned why limiting the scope of the WI to antenna tilting, there are other devices that might be controlled with a similar interface, for example antenna beams. O2 supported this view, and suggested having a WI with a broader scope. Volker agreed with these considerations, but preferred to keep this WI as is it is now in order to complete the work as soon as possible.

It is clarified that the RAN part is the definition and inclusion of the relevant items in the TSG RAN WG3 specification in order to control electrical tilting antennas. The provision of the parameters / functionality across the Itf-N interface needed for a network wide controlling of RET antenna devices takes place in SA WG5. It is clarified that the RAN part of the work is the transport, the definition of the interface takes place in SA WG5.

The WI Description needs to be updated with some comments from Alcatel, also it should be a Work Task and the completion date is moved to December 2003.

RP-030193   Proposal for New Work Item "Remote Control of Electrical Tilting Antennas" (Vodafone)

Volker Hoehn (Vodafone) presented this revised WIDS

Decision: The WI is approved

RP-030147   Proposed SI "Optional Low Level Interface for FDD BSs" (Telefonica, Tekmar)

Juan Antonio Moreno (Telefónica) presented this SI Description Sheet

Howard Benn (Motorola) questioned what is the objective of the Study, regarding the current paper it seems that all those items are already covered by WG4 specifications, and noted that the only room for improvement is the extension of the NBAP signaling to cover lower output levels.

Juan Antonio noted that the proposal is a Study, there might be solutions other than the extension of the signaling range that could at least be considered.

Antti Toskala (Nokia) objected defining an interface point that is internal to the NodeB, and reminded of the potential regulatory implications and the responsibility for the conformance of the resulting system.

Carlo Matarasso (Tekmar) noted that it is a matter of fact that operators are studying to connect equipment to the NodeBs that need a low level input, and having a standardized port in 3GPP would simplify their task to meet any regulatory requirements.

Decision: The document is noted

RP-030194   Status of supporting low level output powers for FDD base stations within the 3GPP RAN specifications today (Motorola)

Howard Benn (Motorola) presented this document

The paper summarizes the actual changes to the specifications required to have a low level in the current antenna port interface.

It was questioned if the understanding of WG4 and WG3 was the same when referring to the antenna port. Howard clarified that all measurements in WG3 refer to the antenna port, and then it is up to the manufacturer's declaration to specify where that port actually is, it could be at the base station or up on the antenna mast if the power amplifier is located there.

Given the amount of changes needed, Evelyne Le Strat (Nortel) noted that a Study Item, or a Work Item, might not be necessary, the CRs could be considered under the TEI6 Item

Juan Antonio Moreno (Telefónica) agreed to produce a new SI description sheet taking into account the considerations raised on this document

Decision: The document is noted

RP-030198   Proposed SI " Low output power FDD Base Station ~~Optional Low Level Interface for FDD BSs~~" (Telefonica, Tekmar)

Juan Antonio Moreno (Telefónica) presented this SI Description Sheet

Motorola showed concern on the title of the WI, in its view it suggests a new class of BS which is not the case, and proposes an alternate title: "Low Output Powers for general purpose FDD BSs".

Telefónica agreed to change the title

Decision: The Study Item is approved

RP-030156   Proposed WID for Network Assisted Cell Change from UTRAN to GERAN - network aspects (Vodafone)

Alan Law (Vodafone) presented this WI proposal

No comments.

Decision: The WI is approved

RP-030191   Proposed WI: Iu enhancements for IMS support in the RAN (Nortel)

Denis Fauconnier (Nortel) presented this WI proposal

Alcatel raised some concerns on creating a WI with a given solution before considering alternatives, and suggested beginning with a study item first. Nokia suggested to consider the SA WG2 work in the cover sheet. RAN WG3 is tasked to review the Work Item Sheet

Decision: The WI is approved

9.10.1   New frequency bands

RP-030145   DS-CDMA Introduction in the 800 MHz Band (NTT DoCoMo)
Howard Benn (WG4 chairman) presented this WI Description Sheet
Takehiro Nakamura (NTT DoCoMo) clarified that the uplink/downlink bands are proposed in square brackets, but will be clarified by the next WG4 meeting since this will be decided in Japan in April.
It was further clarified that the European GSM bands will not be covered.
Serge Willeggener (Qualcomm) commented that WG4 doesn't have the necessary expertise to carry on the required co-existence and evolution studies on some of the technologies mentioned in 4.1.
Takaharu Nakamura (Fujitsu) clarified that part of the study will be performed in the Japanese Council.
Serge then commented that the scope of the WI, as currently proposed, is unclear on this section.
It is clarified that the proposal is for FDD only, TDD is not considered.
Since the justification for this WI is the new submission for IMT2000, there was some debate on how to consider the other bands being proposed to this meeting (1.7/2.1 GHz). It was agreed to make the submission papers sufficiently open to cover all new possible bands.
The relation to the UMTS850 WI (already approved in December) was also debated. It was suggested to consider the Japanese bands as an addition to the UMTS850, that is, to merge both proposals. It was clarified that the scope of UMTS850 is wider and the timescale substantially different, however it is agreed that they are closely related, and companies are suggested to share efforts for the simulation work.
Decision: The WI is approved, the WIDS needs to be discussed further. A revision is provided in RP-030178

RP-030178   Revised DS-CDMA Introduction in the 800 MHz Band (NTT DoCoMo)
Takaharu Nakamura (Fujitsu) presented this WI Description sheet
Decision: The WI and the Description Sheet are approved

RP-030098   UMTS 1.7/2.1 GHz (Cingular LCC, Nokia, Siemens, Ericsson, Nortel)
Jussi Numminen (Nokia) presented this WI Description Sheet
Decision: The WI is approved, the WIDS needs to be discussed further

RP-030186   UMTS 1.7/2.1 GHz (Cingular LCC, Nokia, Siemens, Ericsson, Nortel)
Jussi Numminen (Nokia) presented this WI Description Sheet
Decision: The revised WI Description Sheet is approved

9.10.2   Subscriber and Equipment Trace

RP-030166   Proposed Work Item on Subscriber and Equipment Trace (Nortel Networks)
Denis Fauconnier (Nortel) presented this WI proposal

RP-030188   Scope of Rel-6 WI on Trace enhancement (Nokia)
Sami Kekki (Nokia) presented this document
Nokia clarifies that there are two different trace activation methods under discussion, signaling based and Network Management based. Nokia raises a number of concerns on the feasibility of the second method, and proposes to consider only the first method in the WI in RAN.
Vodafone and Nortel argued against, and noted that there is no agreement on those objections in scope in SA WG5 and both methods should be part of the WI.and they should be discussed in RAN WG3 on a technical basis.

There was a long debate on the capability of the radio network to support the requirements set by SA WG5. Sami clarified that the network based activation creates a heavy burden in RAN, but the results ~~are~~ can be the same as the signaling based method, which is actually already implemented in the RAN specifications anyway.

Denis Fauconnier (Nortel) reminded that the task of RAN is to fulfill the requirements of SA WG5, the WI scope simply refers to those requirements, and since both options are considered there, RAN has to study them. Eventually, if the analysis at one of the RAN WGs shows that the Management Activated method is not feasible, an LS would be sent to SA WG5 requesting to change their requirements.

Discussion followed off line, but no agreement could be reached. Nokia proposed to agree the WI with the scope for the signaling option only, and to task WG3 to study both and eventually modify the Description Sheet to include the Management activated method if it is deemed necessary. Nokia recommends to report to SA that RAN couldn't agree that the two options are necessary.
These terms were not agreed by the proponents of the WI, it was concluded that a vote might be necessary in the next TSG RAN to decide on the WI Description Sheet. It was noted however that nothing stops WG3 to treat documents on the issue, provided that the work on the approved WIs is covered.

Decision: The WI proposal in RP-030166 is not approved

10.   Technical co-ordination among WGs

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

See appropriate section 8.x for each WG

10.2   Other needs

No discussions

11   Outputs to other groups

RP-030184   Answer LS on the Antenna Interface Standards Group (AISG) (Vodafone)
It is agreed to task WG4 to review (with the support from WG3) and send, if agreed, the LS to AISG.
Decision: The LS is withdrawn

12   Project management

RP-030199   Review of the 3GPP Work Plan (3GPP Support)
RP-030200   3GPP Work Plan (3GPP Support)
Alain Sultan (3GPP Support) presented the Work Plan
Discussion on the completion date of the MBMS WI, see agenda item 9.5

On the "Early UE" work, the chairman clarified that the proposal is to have a Release independent feature.

Serge Willegener (Qualcomm) questioned what is the status of a feature if part of it is finished on the CN side and not finished in RAN, being the work independent on the groups, would they be split in two different features? It was commented that this is an SA decision.

The chairman reminded of the importance of setting completion dates as accurate as possible, the expected freezing time of a Release is based on these forecasts.

~~Three~~ '3' expressed preference for the December 2003 date for freezing of Rel-6.

Eisuke Fukuda (vice chairman) questioned how the contents of Rel-6 could be used for the update of ITU recommendation M.1457 if the freezing takes place in March 2004. The chairman clarified that it is very difficult to correlate the updates for ITU with the 3GPP Releases, and as a matter of fact it happens rarely. The chairman noted that 3GPP has committed to produce yearly updates, regardless of the dates of the Releases.

Per summarized that, from a RAN perspective, the only comment that can be made to the freezing date is that the earliest possible would be December 2003.

Antti Toskala (Nokia) noted that creating WI for Testing linked to RAN WI shouldn't be done automatically, since it may happen that the RAN WI is deleted but Testing activity is left forgotten in the Work Plan leading to an erroneous indication of the Testing work left.

RP-030152   CRs to lists of specs, frozen Releases (3GPP Support)
RP-030153   Specs status list prior to TSGs#19 (3GPP Support)
RP-030189   Specifications not yet under change control, but pertaining to frozen Releases (3GPP Support)

John Meredith (3GPP Support) presented this documents

It is agreed that 2~~5~~9.993, all 3 Releases, is stopped, and clarified that 25.951 is Rel-6.

13   Any other business

No discussions.

14   Close of the meeting

The chairman closed the meeting on Friday 14th at 13:00. He thanked the hosts for the facility and support provided. He also thanked the hosts for the invitation on the Wednesday evening that reminded him of the good old days when he was able to eat those marvellous fish and ships but he felt a bit disappointed due to the fact that it was not provided wrapped in a newspaper. He thanked the retiring working groups chairs for their active support during the last few years and wished them good luck for their future life of retired chairmen.

Annex A: List of participants

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Annex B: List of documents

See main body of the report for clarification on documents partially approved or approved with a note xx).

Tdoc	Title	Source	Decision
RP-030001	Proposed agenda	Chairman	Revised in 5
RP-030002	Revised Draft Report of the 18th TSG-RAN meeting (New Orleans, US, 3 - 6 December, 2002)	3GPP Support	Approved
RP-030003	Early UE Handling	Nokia	Noted
RP-030004	Status Report for SI "Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements"	Rapporteur (Ericsson)	Noted
RP-030005	Revised proposed agenda	Chairman	Approved
RP-030006	Status Report for WI "Radio access bearer support enhancement"	Rapporteur	Noted
RP-030007	Status Report for WI "Terminal power saving features"	Rapporteur	Noted
RP-030008	Status Report for WI "Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods"	Rapporteur (Siemens)	Noted
RP-030009	Status Report for WI "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN"	Rapporteur	Revised in 143
RP-030010	Status Report for the SI "FS for the Early Mobile Handling in UTRAN"	Rapporteur	Noted
RP-030011	Status Report for SI "FS on Enhancements to OTDOA Positioning using advanced blanking methods"	Rapporteur	Noted
RP-030012	Status Report for WI "Multiple Input Multiple Output Antenna"	Rapporteur (Lucent)	Noted
RP-030013	Status Report for SI "UTRA Wideband Distribution System (WDS)"	Rapporteur (Tekmar)	Noted
RP-030014	Status Report for SI "Improvement of inter-frequency and inter-system measurement for 1.28Mcps TDD"	Rapporteur (Samsung)	Revised in 180
RP-030015	Update of Work Item Description sheet on "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN"	Nokia	Approved
RP-030016	3GPP TR 25.992 v1.3.0: "Multimedia Broadcast/Multicast Service (MBMS); UTRAN/GERAN requirements"	Nokia	Noted
RP-030017	Correction of UTRAN SIR measurement definition, CR 25.215-135r4 (R99), CR 25.215-136r2 (Rel-4), CR 25.215-133r3 (Rel-5)	Ericsson, Nortel	Approved
RP-030018	Status Report WG2	RAN WG2 Chairman	Revised in 173
RP-030019	List of agreed CRs from WG2	RAN WG2	Noted
RP-030020	Emission limits proposed by CISPR for ITE above 1 GHz	Nokia	Noted
RP-030021	Draft LS on the CISPR limits for ITE over 1GHz	Nokia	Not approved
RP-030022	Proposal for New Work Item "Remote Control of Electrical Tilting Antennas"	Vodafone	Revised in 193
RP-030023	Status Report WG4	RAN WG4 Chairman	Noted
RP-030024	List of agreed CRs from WG4	RAN WG4	Noted

Tdoc	Title	Source	Decision
		Chairman	
RP-030025	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.101	RAN WG4	Approved
RP-030026	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.123	RAN WG4	Approved
RP-030027	CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.133	RAN WG4	Approved
RP-030028	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.142	RAN WG4	Approved
RP-030029	CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.104 & TS 25.141 on "Protection of FDD BS receiver"	RAN WG4	Approved
RP-030030	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.105 & TS 25.142 on "TDD - GSM co-existence in the same geographic area"	RAN WG4	Approved
RP-030031	CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.133 on "Correction of UE parameters for Random Access test" (Linked to CR239 to TS34.121 in TP-030045)	RAN WG4	Approved
RP-030032	CRs (Rel-4 and Rel-5 Category A) to TS 25.101	RAN WG4	Approved
RP-030033	CRs (Rel-4 and Rel-5 Category A) to TS 25.123	RAN WG4	Approved
RP-030034	CRs (Rel-4 and Rel-5/Rel-6 Category A) to TS 25.133	RAN WG4	Approved
RP-030035	CRs (Rel-4 and Rel-5/Rel-6 Category A) to TS 25.104 & TS 25.141 on "Correction to external equipment definition"	RAN WG4	Approved
RP-030036	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 (Repeaters specifications) on "FDD - GSM co-existence in the same geographic area"	RAN WG4	Approved
RP-030037	CRs (Rel-5) to TS 25.101	RAN WG4	Approved
RP-030038	CR (Rel-5) to TS 25.102	RAN WG4	Approved
RP-030039	CR (Rel-5) to TS 25.113	RAN WG4	Approved
RP-030040	CRs (Rel-5) to TS 25.133	RAN WG4	Approved
RP-030041	CRs (Rel-5 and Rel-6 Category A) to TS 25.141	RAN WG4	Approved
RP-030042	CRs (Rel-5) to TS 25.142	RAN WG4	Approved
RP-030043	CR (Rel-5) to TS 34.124	RAN WG4	Withdrawn 8)
RP-030044	CRs (Rel-5 and Rel-6 Category A) to TS 25.104 & TS 25.141 on "Clarification of the WCDMA interferer definition for ACS and blocking requirements and tests"	RAN WG4	Approved 9)
RP-030045	CRs (Rel-5) to TS 25.105, TS 25.142 & TR 25.952 on "The definition of UTRA TDD BS classes"	RAN WG4	Approved
RP-030046	CRs (Rel-5) for WI "High Speed Downlink Packet Access" (FDD UE)	RAN WG4	Approved
RP-030047	CRs (Rel-5) for WI "High Speed Downlink Packet Access" (TDD UE)	RAN WG4	Approved
RP-030048	CRs (Rel-6) for WI "Technical Enhancements and Improvements"	RAN WG4	Approved
RP-030049	CRs (Rel-6) for WI "FDD BS Classification"	RAN WG4	Approved
RP-030050	Status Report for WI "Improving Receiver Performance Requirements for the FDD UE"	Rapporteur (Intel)	Noted
RP-030051	Status Report for SI "Analysis of OFDM for UTRAN evolution"	Rapporteur (Nortel)	Revised in 161
RP-030052	Status report WG3	RAN WG3 Chairman	Noted
RP-030053	List of agreed/technically correct CRs from WG3	RAN WG3	Noted
RP-030054	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.414 on TCP Port Number	RAN WG3	Approved
RP-030055	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 on Support of Cell Individual Offset in RNSAP	RAN WG3	Revised 5)
RP-030056	CRs (Rel-4 and Rel-5 Category A) to TS 25.413	RAN WG3	Approved

Tdoc	Title	Source	Decision
RP-030057	CRs (Rel-4 and Rel-5 Category A) to TS 25.419 on Correction of Write and Replace functions	RAN WG3	Approved
RP-030058	CRs (Rel-4 and Rel-5 Category A) to TS 25.423	RAN WG3	Approved
RP-030059	CRs (Rel-4 and Rel-5 Category A) to TS 25.433 on Correction of PRACH Midamble for 1.28Mcps TDD	RAN WG3	Approved
RP-030060	CRs (Rel-5 only) to 25.413	RAN WG3	Approved
RP-030061	CR (Rel-5 only) to 25.414 on Minor cleanup of 25.414	RAN WG3	Approved
RP-030062	CRs (Rel-5 only) to 25.423	RAN WG3	Approved
RP-030063	CR (Rel-5 only) to 25.433 on HS-PDSCH Code and Timeslot Resource Assignment for TDD	RAN WG3	Approved
RP-030064	CR (Rel-5 only) to 25.435 on S-CCPCH power setting in case of no data transmission	RAN WG3	Not approved 6)
RP-030065	CRs (Rel-5 only) to 25.453	RAN WG3	Approved
RP-030066	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 and 25.433 on Corrections to DCH Combining in RL SETUP and RL ADDITION	RAN WG3	Approved
RP-030067	CRs (Rel-4 and Rel-5 Category A) to TS 25.413, 25.423 and 25.453 (only Rel-5) on Alignment of "Uncertainty Ellipse" with RRC	RAN WG3	Approved
RP-030068	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Clarification to DL Power definition for TDD	RAN WG3	Approved
RP-030069	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Clarification to 2nd Interleaving Mode for TDD	RAN WG3	Approved
RP-030070	CRs (Rel-4 and Rel-5 Category A) to TS 25.423, 25.433 and 25.453 (Rel-5 only) on Correction for the Information Exchange Initiation procedure	RAN WG3	Approved
RP-030071	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Midamble Configuration for Midamble Shift LCR	RAN WG3	Approved
RP-030072	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on TPC Step Size for TDD	RAN WG3	Approved
RP-030073	CR (Rel-5 only) to TS 25.423 and 25.433 on Clarification of HS-SCCH power offset usage in case of multiple HS-SCCHs	RAN WG3	Approved
RP-030074	CR (Rel-5 only) to TS 25.423 and 25.433 on T1 signalling for HSDPA	RAN WG3	Approved
RP-030075	CR (Rel-5 only) to TS 25.425 and 25.435 on Clarification for the flow control	RAN WG3	Approved
RP-030076	CR (Rel-5 only) to TS 25.423 and 25.433 on Guaranteed Bit Rate for HSDPA	RAN WG3	Approved
RP-030077	CR (Rel-5 only) to TS 25.423 and 25.433 on Correction to DL Tx Power for TDD	RAN WG3	Approved
RP-030078	CR (Rel-5 only) to TS 25.423 and 25.433 on HS-PDSCH Corrections for TDD	RAN WG3	Approved
RP-030079	CRs (R99 and Rel-4/Rel-5 Category A) to TS 29.108 linked to CN1 on Corrections to the list of RANAP messages transferred on the E-interface	RAN WG3	Approved 7)
RP-030080	CR (Rel-5 only) to TS 25.423 and 25.433 linked to RAN1 (25.225) on Measurement for HS-SICH Outer Loop Power Control	RAN WG3	Approved
RP-030081	CR (Rel-5 only) to TS 25.433 linked to RAN1 (25.215) on HS-DSCH: addition of non-HS-DSCH power measurement	RAN WG3	Approved
RP-030082	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 and 25.433 linked to RAN2 (25.331) on Corrections to Channelisation Code TFCI Mapping for TDD	RAN WG3	Approved
RP-030083	Status report for WI 'Improvement of RRM across RNS and RNS/BSS (Post Rel-5)'	RAN WG3	Noted
RP-030084	CRs (Rel-6 only) to TS 25.401, 25.450, 25.452, 25.453 on Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods	RAN WG3	Approved
RP-030085	Status report for SI 'Feasibility Study on the Evolution of UTRAN Architecture'	RAN WG3	Noted
RP-030086	CRs (R99 and Rel-4/Rel-5 Category A) for Early UE handling in UTRAN to 'Transfer UESBI over	RAN WG3	Rejected

Tdoc	Title	Source	Decision
	Iu'		
RP-030087	Status report for SI 'Improved access to UE measurement data for CRNC to support TDD RRM'	RAN WG3	Noted
RP-030088	Status Report for WI "Beamforming enhancements"	Rapporteur (Nokia)	Noted
RP-030089	Status Report for SI "Radio link performance enhancement"	Rapporteur (Nokia)	Noted
RP-030090	Status Report, RAN ITU-R Ad Hoc	ITU-R Ad Hoc Contact Person	Noted
RP-030091	Proposed Initial submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Revised in 174
RP-030092	Proposed response to ITU-R WP8F on coexistence Between IMT-2000 TDD and FDD Radio Interface Technologies Within the Frequency Range 2 500-2 690 MHz Operating in Adjacent Bands and in the Same Geographical Area	ITU-R Ad Hoc	Approved
RP-030093	Proposed updated information on the Roadmap	ITU-R Ad Hoc	Revised in 175
RP-030094	Status report for SI "analysis of higher chip rates for UTRA TDD evolution"	Rapporteur (IPWireless)	Noted
RP-030095	TR25.895 v1.0.0 : Analysis of higher chip rates for UTRA TDD evolution	IPWireless	Noted
RP-030096	Status Report for WI "High Speed Downlink Packet Access (HSDPA-RF)"	Rapporteur (Motorola)	Noted
RP-030097	Layer 3 filtering definition	Nokia et al	Noted
RP-030098	UMTS 1.7/2.1 GHz	Cingular LCC, Nokia, Siemens, Ericsson, Nortel	Revised in 186
RP-030099	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.306	RAN WG2	withdrawn
RP-030100	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.321	RAN WG2	Approved
RP-030101	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.322	RAN WG2	Approved
RP-030102	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.324	RAN WG2	Approved
RP-030103	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (1)	RAN WG2	Approved
RP-030104	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (2)	RAN WG2	Approved
RP-030105	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (3)	RAN WG2	Approved
RP-030106	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 (4)	RAN WG2	Approved
RP-030107	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 on the mandatory reading of SIB11/12 before RACH access	RAN WG2	Withdrawn
RP-030108	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 34.109	RAN WG2	Revised 2)
RP-030109	CRs to TR 25.993 Version 6.0.0 also affecting earlier releases	RAN WG2	Approved
RP-030110	CRs (Rel-4 and Rel-5 Category A) to TS 25.305	RAN WG2	Approved
RP-030111	CRs (Rel-4 and Rel-5 Category A) to TS 25.331	RAN WG2	Approved
RP-030112	CRs (Rel-5) to TS 25.302	RAN WG2	Approved
RP-030113	CRs (Rel-5) to TS 25.306	RAN WG2	Approved
RP-030114	CRs (Rel-5) to TS 25.308	RAN WG2	Approved
RP-030115	CRs (Rel-5) to TS 25.321	RAN WG2	Approved
RP-030116	CRs (Rel-5) to TS 25.322	RAN WG2	Approved
RP-030117	CRs (Rel-5) to TS 25.331	RAN WG2	Approved

Tdoc	Title	Source	Decision
RP-030118	Linked CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.306, TS 25.331 and TS 25.101 on variable Tx/Rx frequency separation in 1800 and 1900 band	RAN WG2	Not approved 3)
RP-030119	Linked CRs (Rel-5) to TS 25.331 and TS 25.423 on HS-DSCH midamble shifts and burst types	RAN WG2	Approved
RP-030120	CR (Rel-5) to 25.331 on Group release (without security)	RAN WG2	Approved 4)
RP-030121	LS on comments to DTR/MTS 0082, UMTS Network Integration Testing Methodology and TSS&TP	TSG SA	Noted
RP-030122	LS on Antenna Interface Standards Group (AISG)	RAN WG4	Noted
RP-030123	Reply to LS on requirement to test non-transmission of newly defined IEs in RRC protocol for Early UE handling	TSG T WG1	Noted
RP-030124	LS on LCS architecture descriptions for TS23.002 update	TSG GERAN	Noted
RP-030125	LS on Early UE Handling	TSG CN WG1	Noted
RP-030126	LS response on Early Ue Handling	TSG CN WG4	Noted
RP-030127	LS on Radio Access Bearer for PS conversational testing	TSG SA WG4	Noted
RP-030128	Revised draft Report of of the "Early UE" Ad Hoc meeting (Sophia Antipolis, France 29 – 30 January 2003)	3GPP Support	Approved
RP-030129	Handling of Early Mobiles	~~Three~~'3'	Noted
RP-030130	Status Report WG1	RAN WG1 Chairman	Noted
RP-030131	Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN	RAN WG1	Noted
RP-030132	CRs (R'99 and Rel-4/Rel-5 category A) to TS 25.214	RAN WG1	Approved
RP-030133	CRs (R'el-4 and Rel-5 category A) to TS 25.224	RAN WG1	Approved
RP-030134	CRs (Rel-5) to TS 25.212	RAN WG1	Approved
RP-030135	CRs (Rel-5) to TS 25.213	RAN WG1	Approved
RP-030136	CRs (Rel-5) to TS 25.214	RAN WG1	Approved
RP-030137	CRs (Rel-5) to TS 25.215	RAN WG1	Withdrawn 1)
RP-030138	CRs (Rel-5) to TS 25.221	RAN WG1	Approved
RP-030139	CRs (Rel-5) to TS 25.222	RAN WG1	Approved
RP-030140	CRs (Rel-5) to TS 25.223	RAN WG1	Approved
RP-030141	CRs (Rel-5) to TS 25.224	RAN WG1	Approved
RP-030142	CRs (Rel-5) to TS 25.225	RAN WG1	Withdrawn 1)
RP-030143	Status Report for WI "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN"	Rapporteur (Nokia)	Noted
RP-030144	CRs (R'99 and Rel-4/Rel-5 category A) to TS 34.124 on "Correction to radiated spurious emission measurement bandwidth"	Ericsson	Approved
RP-030145	DS-CDMA Introduction in the 800 MHz Band	NTT DoCoMo	Revised in 178
RP-030146	Proposed CRs (1904, 1905 and 1906 to Rel99, Rel-4 & Rel-5) to 25.331R99 on Correction on GPS navigation model update mechanism	Motorola, Nokia	Withdrawn
RP-030147	Proposed SI "Optional Low Level Interface for FDD BSs"	Telefonica, Tekmar	Revised in 198
RP-030148	updated MIMO WI sheet	Lucent	Revised in 192
RP-030149	updated SCM TR 25.996 v6.0.0 "Spatial Channel Model for Multiple-Input Multiple-Output Simulations"	Lucent	Revised in 181
RP-030150	Early UE - Proposal for UESBI-Iu encoding	Siemens,	Noted

Tdoc	Title	Source	Decision
		Qualcomm	
RP-030151	Status Report for WI "Improvement of inter-frequency and inter-system measurements"	Rapporteur (Nokia)	Noted
RP-030152	CRs to lists of specs, frozen Releases	3GPP Support	Noted
RP-030153	Specs status list prior to TSGs#19	3GPP Support	Noted
RP-030154	Status Report for SI "Fast Cell Selection"	Rapporteur (Lucent)	Noted
RP-030155	TR 25.951 v2.0.0 "FDD BS classification"	RAN WG4	Approved
RP-030156	Proposed WID for Network Assisted Cell Change from UTRAN to GERAN - network aspects	Vodafone	Approved
RP-030157	Work Item and Study Item Description Sheets	3GPP Support	Noted
RP-030158	Status report for SI "Uplink enhancements for dedicated transport channels"	Rapporteur (Nokia)	Revised in 190
RP-030159	Definition of TFCI transmit power on S-CCPCH in case of no data	Ericsson, NTT DoCoMo	Noted
RP-030160	Revised CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 on Support of Cell Individual Offset in RNSAP	Ericsson	Revised in 168
RP-030161	Status Report for SI "Analysis of OFDM for UTRAN evolution"	Rapporteur (Nortel)	Noted
RP-030162	Revision of CRs 023, 024, 025 to 34.109 in RP-030108	Panasonic	Approved
RP-030163	Status Report for WI "UMTS 850"	Rapporteur (Cingular)	Noted
RP-030164	LS on early UE handling	TSG SA WG2	Noted
RP-030165	L3 Filtering	Qualcomm	Noted
RP-030166	Proposed Work Item on Subscriber and Equipment Trace	Nortel Networks	Not approved
RP-030167	Revision of CRs 207, 208, 209 to 25.101 on "Variable Tx/Rx frequency separation"	Ericsson	Rejected
RP-030168	Revised CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 on Support of Cell Individual Offset in RNSAP	Ericsson	Revised in 183
RP-030169	Candidatures for TSG RAN elections	3GPP Support	Noted
RP-030170	Handling of Early Mobiles	Ericsson, ~~TIM~~Telecom Italia, TeliaSonera	Noted
RP-030171	Cell Identification Requirements	NEC	Noted
RP-030172	Background information of L3 filtering simulation results	Nokia	Noted
RP-030173	WG2 Status Report (Revised)	WG2 Chairman	Noted
RP-030174	Proposed Initial submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Revised in 176
RP-030175	Proposed updated information on the Roadmap	ITU-R Ad Hoc	Revised in 177
RP-030176	Proposed Initial submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU-R M.1457	TSG RAN	Approved
RP-030177	Proposed updated information on the Roadmap	TSG RAN	Approved
RP-030178	DS-CDMA Introduction in the 800 MHz Band	NTT DoCoMo	Approved
RP-030179	IP/ ATM interoperability	Siemens	Noted

Tdoc	Title	Source	Decision
RP-030180	Status Report for SI "Improvement of inter-frequency and inter-system measurement for 1.28Mcps TDD"	Rapporteur (Samsung)	Noted
RP-030181	updated SCM TR 25.996 v1.0.0 "Spatial Channel Model for Multiple-Input Multiple-Output Simulations"	Lucent	Noted
RP-030182	Updated UMTS850 WIDS	Cingular	Revised in 197
RP-030183	Revised CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 on Support of Cell Individual Offset in RNSAP	Ericsson	Approved
RP-030184	Answer LS on the Antenna Interface Standards Group (AISG)	Vodafone	Withdrawn
RP-030185	Definition of TFCI transmit power of S-CCPCH in case of no data	Alcatel	Withdrawn
RP-030186	UMTS 1.7/2.1 GHz	Cingular LCC, Nokia, Siemens, Ericsson, Nortel	Approved
RP-030187	Proposed CRs to 25.331R99 on Correction on GPS navigation model update mechanism	Nokia	Approved
RP-030188	Scope of Rel-6 WI on Trace enhancement	Nokia	Revised in 189
RP-030189	Specifications not yet under change control, but pertaining to frozen Releases	3GPP Support	Noted
RP-030190	Status report for SI "Uplink enhancements for dedicated transport channels"	Rapporteur (Nokia)	Noted
RP-030191	Proposed WI: Iu enhancements for IMS support in the RAN	Nortel	Approved
RP-030192	updated MIMO WI sheet	Lucent	Approved
RP-030193	Proposal for New Work Item "Remote Control of Electrical Tilting Antennas"	Vodafone	Approved
RP-030194	Status of supporting low level output powers for FDD base stations within the 3GPP RAN specifications today	Motorola	Noted
RP-030195	TS 23.195, Version 1.0.0 Provision of UE Specific Behaviour Information to Network Entities	SA WG2	Noted
RP-030196	Layer 3 filtering definition (Rel-5 CR to 25.133)	Nokia et al	Withdrawn
RP-030197	Updated UMTS850 WIDS	Cingular	Approved
RP-030198	Proposed SI " Low output power FDD Base Station~~Optional Low Level Interface for FDD BSs~~"	Telefonica, Tekmar	Approved
RP-030199	Review of the 3GPP Work Plan	3GPP Support	Noted
RP-030200	3GPP Work Plan	3GPP Support	Noted
RP-030201	Layer 3 filtering definition (Rel-5 CR1910 to 25.331)	Nokia et al	Approved

Annex C: List of CRs presented at TSG RAN #19

The table below lists all the CRs presented at RAN#18, regardless of their final status.

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.212	165	1	Rel-5	F	RP-030134	R1-030294	approved	Correction of CQI index to bit mapping	5.3.0	5.4.0	R1	HSDPA-Phys
25.212	166	3	Rel-5	F	RP-030134	R1-030340	approved	Correction of bit scrambling of HS-DSCH	5.3.0	5.4.0	R1	HSDPA-Phys
25.212	168	-	Rel-5	F	RP-030134	R1-030240	approved	Correction of subscript for modulation scheme information	5.3.0	5.4.0	R1	HSDPA-Phys
25.213	061	1	Rel-5	F	RP-030135	R1-030237	approved	Removal of the tiny text in Figure 1 and minor corrections to 4.2.1	5.2.0	5.3.0	R1	HSDPA-Phys
25.214	299	5	Rel-5	F	RP-030136	R1-030255	approved	CQI reporting with TxD	5.3.0	5.4.0	R1	HSDPA-Phys
25.214	313	1	Rel-5	F	RP-030136	R1-030355	approved	On closed loop transmit diversity mode 1 verification algorithm	5.3.0	5.4.0	R1	TEI-5
25.214	315	2	Rel-5	F	RP-030136	R1-030371	approved	Clarification of SSDT and HSDPA	5.3.0	5.4.0	R1	HSDPA-Phys
25.214	316	-	R99	F	RP-030132	R1-030356	approved	Correction on verification algorithm in Annex 1	3.11.0	3.12.0	R1	
25.214	317	-	Rel-4	A	RP-030132	R1-030356	approved	Correction on verification algorithm in Annex 1	4.5.0	4.6.0	R1	
25.214	318	-	Rel-5	A	RP-030132	R1-030356	approved	Correction on verification algorithm in Annex 1	5.3.0	5.4.0	R1	
25.215	133	3	Rel-5	A	RP-030017		approved	Correction of UTRAN SIR measurement definition	5.2.0		R1	-
25.221	109	3	Rel-5	F	RP-030138	R1-030302	approved	Clarification of number of midamble shifts in different time slots	5.3.0	5.4.0	R1	TEI-5
25.221	110	1	Rel-5	F	RP-030138	R1-030110	approved	Correction to applicable HS-SICH burst types and timeslot formats	5.3.0	5.4.0	R1	HSDPA-Phys
25.221	111	-	Rel-5	F	RP-030138	R1-030260	approved	Correction to HS-SCCH minimum timing requirement for UTRA TDD (3.84 Mcps Option)	5.3.0	5.4.0	R1	HSDPA-Phys
25.221	112	3	Rel-5	F	RP-030138	(R1-030366	approved	Miscellaneous Corrections	5.3.0	5.4.0	R1	TEI-5
25.221	113	-	Rel-5	F	RP-030138	R1-030270	approved	HSDPA timing requirements	5.3.0	5.4.0	R1	HSDPA-Phys
25.222	108	1	Rel-5	F	RP-030139	R1-030204	approved	HSDPA corrections	5.3.0	5.4.0	R1	HSDPA-Phys
25.222	109	3	Rel-5	F	RP-030139	(R1-030374	approved	Miscellaneous Corrections	5.3.0	5.4.0	R1	TEI-5
25.223	034	3	Rel-5	F	RP-030140	(R1-030368	approved	Miscellaneous Corrections	5.2.0	5.3.0	R1	TEI-5
25.224	109	1	Rel-5	F	RP-030141	R1-030203	approved	Corrections to TPC Procedures During a DL Transmission Pause	5.3.0	5.4.0	R1	TEI-5
25.224	114	1	Rel-5	F	RP-030141	R1-030257	approved	Corrections to link adaptation procedure for UTRA TDD (3.84 Mcps Option)	5.3.0	5.4.0	R1	HSDPA-Phys
25.224	115	2	Rel-5	F	RP-030141	R1-030295	approved	Minimum timing requirement for CQI transmission on HS-SICH in UTRA TDD	5.3.0	5.4.0	R1	HSDPA-Phys
25.224	117	2	Rel-5	F	RP-030141	R1-030296	approved	Clarification of downlink closed loop power control procedures for 3.84 Mcps TDD	5.3.0	5.4.0	R1	TEI-5
25.224	118	2	Rel-4	F	RP-030133	R1-030301	approved	Corrections to the LCR power control procedure	4.7.0	4.8.0	R1	LCRTDDphys
25.224	119	2	Rel-5	A	RP-030133	R1-030301	approved	Corrections to the LCR power control procedure	5.3.0	5.4.0	R1	LCRTDDphys
25.225	065	2	Rel-5	F	RP-030080	R1-030304	approved	Addition of HS-SICH quality measurement for UTRA TDD	5.3.0	5.4.0	R1	HSDPA-Phys

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.215	135	4	R99	F	RP-030017		rejected	Correction of UTRAN SIR measurement definition	3.11.0		R1	-
25.215	136	2	Rel-4	A	RP-030017		rejected	Clarification of UTRAN SIR measurement definition	4.6.0		R1	-
25.302	136	-	Rel-5	F	RP-030112	R2-030537	approved	HCSN in TDD DL physical model	5.3.0	5.4.0	R2	HSDPA-L23
25.302	137	-	Rel-5	F	RP-030112	R2-030538	approved	Correction on HSDPA physical channel combination	5.3.0	5.4.0	R2	HSDPA-L23
25.305	084	-	Rel-4	F	RP-030110	R2-030634	approved	Update to figure 5.1, LMU terminology	4.3.0	4.4.0	R2	TEI4
25.305	085	-	Rel-5	A	RP-030110	R2-030635	approved	Update to figure 5.1, LMU terminology	5.4.0	5.5.0	R2	TEI4
25.306	061	-	Rel-5	B	RP-030113	R2-030561	approved	Network Assisted Cell Change from UTRAN to GERAN	5.3.0	5.4.0	R2	TEI5
25.306	062	-	Rel-5	F	RP-030113	R2-030569	approved	Modification to the number of soft channel bits required for HS-DSCH (TDD)	5.3.0	5.4.0	R2	HSDPA-L23
25.308	005	-	Rel-5	F	RP-030114	R2-030539	approved	Correction on HS-DSCH MAC architecture	5.3.0	5.4.0	R2	HSDPA-L23
25.308	006	-	Rel-5	F	RP-030114	R2-030549	approved	Correction to HS-SCCH detection description	5.3.0	5.4.0	R2	HSDPA-L23
25.321	159	-	Rel-5	F	RP-030115	R2-030540	approved	TDD HCSN determination in MAC-hs	5.3.0	5.4.0	R2	HSDPA-L23
25.321	160	-	Rel-5	F	RP-030115	R2-030541	approved	Correction to the use of Transport Block Size index equal to 111111 for TDD	5.3.0	5.4.0	R2	HSDPA-L23
25.321	163	-	Rel-5	D	RP-030115	R2-030544	approved	Editorial changes to MAC-hs	5.3.0	5.4.0	R2	HSDPA-L23
25.321	164	-	R99	F	RP-030100	R2-030599	approved	Setting of ciphering activation time for TM bearers.	3.14.0	3.15.0	R2	TEI
25.321	165	-	Rel-4	A	RP-030100	R2-030600	approved	Setting of ciphering activation time for TM bearers.	4.7.0	4.8.0	R2	TEI
25.321	166	-	Rel-5	A	RP-030100	R2-030601	approved	Setting of ciphering activation time for TM bearers.	5.3.0	5.4.0	R2	TEI
25.321	167	1	R99	F	RP-030100	R2-030641	approved	TFC Control Implementation	3.14.0	3.15.0	R2	TEI
25.321	168	1	Rel-4	A	RP-030100	R2-030642	approved	TFC Control Implementation	4.7.0	4.8.0	R2	TEI
25.321	169	1	Rel-5	A	RP-030100	R2-030643	approved	TFC Control Implementation	5.3.0	5.4.0	R2	TEI
25.321	170	-	Rel-5	F	RP-030115	R2-030610	approved	Re-ordering entity corrections	5.3.0	5.4.0	R2	HSDPA-L23
25.322	214	-	R99	F	RP-030101	R2-030509	approved	Correction to VT(MRW) definition	3.13.0	3.14.0	R2	TEI
25.322	215	-	Rel-4	A	RP-030101	R2-030510	approved	Correction to VT(MRW) definition	4.7.0	4.8.0	R2	TEI
25.322	216	-	Rel-5	A	RP-030101	R2-030511	approved	Correction to VT(MRW) definition	5.3.0	5.4.0	R2	TEI
25.322	217	-	Rel-5	C	RP-030116	R2-030562	approved	Enhancement of MRW procedure	5.3.0	5.4.0	R2	HSDPA-L23
25.324	014	1	R99	F	RP-030102	R2-030573	approved	Maximum size of BMC PDU	3.6.0	3.7.0	R2	TEI
25.324	015	1	Rel-4	A	RP-030102	R2-030574	approved	Maximum size of BMC PDU	4.2.0	4.3.0	R2	TEI
25.324	016	1	Rel-5	A	RP-030102	R2-030575	approved	Maximum size of BMC PDU	5.2.0	5.3.0	R2	TEI
25.331	1811	-	R99	F	RP-030103	R2-030434	approved	ASN.1 of the SRNS relocation Info	3.13.0	3.14.0	R2	TEI
25.331	1812	-	Rel-4	A	RP-030103	R2-030435	approved	ASN.1 of the SRNS relocation Info	4.8.0	4.9.0	R2	TEI
25.331	1813	-	Rel-5	A	RP-030103	R2-030436	approved	ASN.1 of the SRNS relocation Info	5.3.0	5.4.0	R2	TEI
25.331	1814	-	R99	F	RP-030103	R2-030437	approved	Correction to procedural text for Physical Shared Channel Allocation (TDD only)	3.13.0	3.14.0	R2	TEI
25.331	1815	-	Rel-4	A	RP-030103	R2-030438	approved	Correction to procedural text for Physical Shared Channel Allocation (TDD only)	4.8.0	4.9.0	R2	TEI
25.331	1816	-	Rel-5	A	RP-030103	R2-030439	approved	Correction to procedural text for Physical Shared Channel Allocation (TDD only)	5.3.0	5.4.0	R2	TEI
25.331	1817	1	R99	F	RP-030103	R2-030515	approved	CM and state transition related to measurements, additional measurements, virtual active set and periodic measurements	3.13.0	3.14.0	R2	TEI
25.331	1818	1	Rel-4	F	RP-030103	R2-030516	approved	CM and state transition related to measurements,	4.8.0	4.9.0	R2	TEI

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								additional measurements, virtual active set and periodic measurements				
25.331	1819	1	Rel-5	A	RP-030103	R2-030517	approved	CM and state transition related to measurements, additional measurements, virtual active set and periodic measurements	5.3.0	5.4.0	R2	TEI
25.331	1820	-	R99	F	RP-030103	R2-030443	approved	Physical channel failure and radio link re-establishment	3.13.0	3.14.0	R2	TEI
25.331	1821	-	Rel-4	F	RP-030103	R2-030444	approved	Physical channel failure and radio link re-establishment	4.8.0	4.9.0	R2	TEI
25.331	1822	-	Rel-5	A	RP-030103	R2-030445	approved	Physical channel failure and radio link re-establishment	5.3.0	5.4.0	R2	TEI
25.331	1823	-	R99	F	RP-030103	R2-030446	approved	Correction concerning bit numbering convention	3.13.0	3.14.0	R2	TEI
25.331	1824	-	Rel-4	A	RP-030103	R2-030447	approved	Correction concerning bit numbering convention	4.8.0	4.9.0	R2	TEI
25.331	1825	-	Rel-5	A	RP-030103	R2-030448	approved	Correction concerning bit numbering convention	5.3.0	5.4.0	R2	TEI
25.331	1829	-	R99	F	RP-030104	R2-030455	approved	Additional Measurement reporting list	3.13.0	3.14.0	R2	TEI
25.331	1830	-	Rel-4	A	RP-030104	R2-030456	approved	Additional Measurement reporting list	4.8.0	4.9.0	R2	TEI
25.331	1831	-	Rel-5	A	RP-030104	R2-030457	approved	Additional Measurement reporting list	5.3.0	5.4.0	R2	TEI
25.331	1832	2	R99	F	RP-030104	R2-030614	approved	Correction on RRC integrity protection procedure	3.13.0	3.14.0	R2	TEI
25.331	1833	2	Rel-4	A	RP-030104	R2-030615	approved	Correction on RRC integrity protection procedure	4.8.0	4.9.0	R2	TEI
25.331	1834	2	Rel-5	A	RP-030104	R2-030616	approved	Correction on RRC integrity protection procedure	5.3.0	5.4.0	R2	TEI
25.331	1835	-	R99	F	RP-030104	R2-030465	approved	Reporting Cell Status and Event 2A	3.13.0	3.14.0	R2	TEI
25.331	1836	-	Rel-4	A	RP-030104	R2-030466	approved	Reporting Cell Status and Event 2A	4.8.0	4.9.0	R2	TEI
25.331	1837	-	Rel-5	A	RP-030104	R2-030467	approved	Reporting Cell Status and Event 2A	5.3.0	5.4.0	R2	TEI
25.331	1838	-	R99	F	RP-030104	R2-030468	approved	Correction to the handling of variable TGPS_IDENTITY and IE "Triggering condition 1/2"	3.13.0	3.14.0	R2	TEI
25.331	1839	-	Rel-4	A	RP-030104	R2-030469	approved	Correction to the handling of variable TGPS_IDENTITY and IE "Triggering condition 1/2"	4.8.0	4.9.0	R2	TEI
25.331	1840	-	Rel-5	A	RP-030104	R2-030470	approved	Correction to the handling of variable TGPS_IDENTITY and IE "Triggering condition 1/2"	5.3.0	5.4.0	R2	TEI
25.331	1841	1	R99	F	RP-030104	R2-030480	approved	Hard handover with pending ciphering activation times	3.13.0	3.14.0	R2	TEI
25.331	1842	1	Rel-4	A	RP-030104	R2-030481	approved	Hard handover with pending ciphering activation times	4.8.0	4.9.0	R2	TEI
25.331	1843	1	Rel-5	A	RP-030104	R2-030482	approved	Hard handover with pending ciphering activation times	5.3.0	5.4.0	R2	TEI
25.331	1844	-	R99	F	RP-030105	R2-030474	approved	Correction of default configurations	3.13.0	3.14.0	R2	TEI
25.331	1845	-	Rel-4	A	RP-030105	R2-030475	approved	Correction of default configurations	4.8.0	4.9.0	R2	TEI
25.331	1846	-	Rel-5	A	RP-030105	R2-030476	approved	Correction of default configurations	5.3.0	5.4.0	R2	TEI
25.331	1847	-	R99	F	RP-030105	R2-030477	approved	Correction to UE behaviour on entering RRC Connected mode	3.13.0	3.14.0	R2	TEI
25.331	1848	-	Rel-4	A	RP-030105	R2-030478	approved	Correction to UE behaviour on entering RRC Connected mode	4.8.0	4.9.0	R2	TEI
25.331	1849	-	Rel-5	A	RP-030105	R2-030479	approved	Correction to UE behaviour on entering RRC Connected mode	5.3.0	5.4.0	R2	TEI
25.331	1853	-	R99	F	RP-030105	R2-030483	approved	Update of Start values in USIM on inter-RAT transitions and transitions to idle mode	3.13.0	3.14.0	R2	TEI
25.331	1854	-	Rel-4	A	RP-030105	R2-030484	approved	Update of Start values in USIM on inter-RAT transitions and transitions to idle mode	4.8.0	4.9.0	R2	TEI

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25.331	1855	-	Rel-5	A	RP-030105	R2-030485	approved	Update of Start values in USIM on inter-RAT transitions and transitions to idle mode	5.3.0	5.4.0	R2	TEI
25.331	1856	-	R99	F	RP-030082	R2-030486	approved	Corrections to Channelisation Code TFCI Mapping for TDD	3.13.0	3.14.0	R2	TEI
25.331	1857	-	Rel-4	A	RP-030082	R2-030487	approved	Corrections to Channelisation Code TFCI Mapping for TDD	4.8.0	4.9.0	R2	TEI
25.331	1858	-	Rel-5	A	RP-030082	R2-030488	approved	Corrections to Channelisation Code TFCI Mapping for TDD	5.3.0	5.4.0	R2	TEI
25.331	1859	-	Rel-4	F	RP-030111	R2-030496	approved	Correction of PNBSCH for 1.28Mcps TDD	4.8.0	4.9.0	R2	LCRTDD-L23
25.331	1860	-	Rel-5	A	RP-030111	R2-030497	approved	Correction of PNBSCH for 1.28Mcps TDD	5.3.0	5.4.0	R2	LCRTDD-L23
25.331	1861	-	Rel-4	F	RP-030111	R2-030498	approved	Correction of SFN-SFN observed time difference for 1.28Mcps TDD	4.8.0	4.9.0	R2	LCRTDD-L23
25.331	1862	-	Rel-5	A	RP-030111	R2-030499	approved	Correction of SFN-SFN observed time difference for 1.28Mcps TDD	5.3.0	5.4.0	R2	LCRTDD-L23
25.331	1863	1	Rel-4	F	RP-030111	R2-030625	approved	ASN.1 corrections concerning missing UE capability extensions	4.8.0	4.9.0	R2	TEI4
25.331	1864	3	Rel-5	F	RP-030111	R2-030637	approved	ASN.1 corrections concerning missing UE capability extensions	5.3.0	5.4.0	R2	TEI4
25.331	1865	-	Rel-4	F	RP-030111	R2-030502	approved	Extensions for 1.28 Mcps specific elements in system information	4.8.0	4.9.0	R2	LCRTDD-L23
25.331	1866	-	Rel-5	A	RP-030111	R2-030503	approved	Extensions for 1.28 Mcps specific elements in system information	5.3.0	5.4.0	R2	LCRTDD-L23
25.331	1867	-	Rel-4	F	RP-030111	R2-030504	approved	Corrections to power control parameter signalling for 1.28 Mcps TDD	4.8.0	4.9.0	R2	LCRTDD-L23
25.331	1868	-	Rel-5	A	RP-030111	R2-030505	approved	Corrections to power control parameter signalling for 1.28 Mcps TDD	5.3.0	5.4.0	R2	LCRTDD-L23
25.331	1872	-	Rel-5	F	RP-030117	R2-030545	approved	TDD HS-SICH Power Control	5.3.0	5.4.0	R2	HSDPA-L23
25.331	1873	-	Rel-5	F	RP-030117	R2-030546	approved	Usage of separate scrambling code for HSDPA	5.3.0	5.4.0	R2	HSDPA-L23
25.331	1874	-	Rel-5	F	RP-030119	R2-030547	approved	TDD HS-DSCH midamble shift and burst type	5.3.0	5.4.0	R2	HSDPA-L23
25.331	1875	-	Rel-5	F	RP-030117	R2-030548	approved	Corrections to the IE "Added or Reconfigured MAC-d flow" and the associated table in 10.3.10	5.3.0	5.4.0	R2	HSDPA-L23
25.331	1877	1	Rel-5	B	RP-030117	R2-030627	approved	Network Assisted Cell Change from UTRAN to GERAN	5.3.0	5.4.0	R2	TEI5
25.331	1878	1	Rel-5	F	RP-030117	R2-030617	approved	Defining more than one DSCH / USCH transport channel in PDSCH and PUSCH system information (TDD only)	5.3.0	5.4.0	R2	TEI5
25.331	1879	-	Rel-5	C	RP-030117	R2-030567	approved	Introducing the use of pre-defined configurations within UTRA	5.3.0	5.4.0	R2	TEI5
25.331	1880	-	Rel-5	C	RP-030120	R2-030568	approved	Group release (without security)	5.3.0	5.4.0	R2	TEI5
25.331	1881	1	R99	F	RP-030105	R2-030638	approved	NAS and Integrity procedure interaction	3.13.0	3.14.0	R2	TEI
25.331	1882	-	R99	F	RP-030105	R2-030577	approved	Correction to Inter-RAT Measurement Report	3.13.0	3.14.0	R2	TEI
25.331	1883	-	Rel-4	F	RP-030105	R2-030578	approved	Correction to Inter-RAT Measurement Report	4.8.0	4.9.0	R2	TEI
25.331	1884	-	Rel-5	A	RP-030105	R2-030579	approved	Correction to Inter-RAT Measurement Report	5.3.0	5.4.0	R2	TEI
25.331	1885	-	R99	F	RP-030106	R2-030580	approved	Correction of signalling of transport block size for DSCH	3.13.0	3.14.0	R2	TEI

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25.331	1886	-	Rel-4	A	RP-030106	R2-030581	approved	Correction of signalling of transport block size for DSCH	4.8.0	4.9.0	R2	TEI
25.331	1887	-	Rel-5	A	RP-030106	R2-030582	approved	Correction of signalling of transport block size for DSCH	5.3.0	5.4.0	R2	TEI
25.331	1888	-	R99	F	RP-030106	R2-030583	approved	PS service continuity when moving between 3G and 2G	3.13.0	3.14.0	R2	TEI
25.331	1889	-	Rel-4	A	RP-030106	R2-030584	approved	PS service continuity when moving between 3G and 2G	4.8.0	4.9.0	R2	TEI
25.331	1890	-	Rel-5	A	RP-030106	R2-030585	approved	PS service continuity when moving between 3G and 2G	5.3.0	5.4.0	R2	TEI
25.331	1891	1	R99	F	RP-030106	R2-030631	approved	Multiple activations of the same compressed mode pattern	3.13.0	3.14.0	R2	TEI
25.331	1892	1	Rel-4	A	RP-030106	R2-030632	approved	Multiple activations of the same compressed mode pattern	4.8.0	4.9.0	R2	TEI
25.331	1893	1	Rel-5	A	RP-030106	R2-030633	approved	Multiple activations of the same compressed mode pattern	5.3.0	5.4.0	R2	TEI
25.331	1894	-	R99	F	RP-030106	R2-030592	approved	Setting of ciphering activation time for TM bearers.	3.13.0	3.14.0	R2	TEI
25.331	1895	-	Rel-4	A	RP-030106	R2-030593	approved	Setting of ciphering activation time for TM bearers.	4.8.0	4.9.0	R2	TEI
25.331	1896	-	Rel-5	A	RP-030106	R2-030594	approved	Setting of ciphering activation time for TM bearers.	5.3.0	5.4.0	R2	TEI
25.331	1897	-	Rel-5	F	RP-030117	R2-030595	approved	Correction of shadow CR implementation	5.3.0	5.4.0	R2	TEI5
25.331	1898	-	Rel-4	F	RP-030111	R2-030596	approved	Removal of MRRU parameter in PDCP info	4.8.0	4.9.0	R2	TEI4
25.331	1899	-	Rel-5	A	RP-030111	R2-030597	approved	Removal of MRRU parameter in PDCP info	5.3.0	5.4.0	R2	TEI4
25.331	1900	-	Rel-5	F	RP-030117	R2-030611	approved	Measurement event for evaluation of best HS-DSCH cell	5.3.0	5.4.0	R2	HSDPA-L23
25.331	1901	1	Rel-4	A	RP-030105	R2-030639	approved	NAS and Integrity procedure interaction	4.8.0	4.9.0	R2	TEI
25.331	1902	1	Rel-5	A	RP-030105	R2-030640	approved	NAS and Integrity procedure interaction	5.3.0	5.4.0	R2	TEI
25.331	1903	-	Rel-5	F	RP-030117	R2-030623	approved	Correction to USBI	5.3.0	5.4.0	R2	TEI5
25.331	1907	-	R99	F	RP-030187	RP-030187	approved	GPS navigation model update mechanism	3.13.0		R2	TEI
25.331	1908	-	Rel-4	A	RP-030187	RP-030187	approved	GPS navigation model update mechanism	4.8.0		R2	TEI
25.331	1909	-	Rel-5	A	RP-030187	RP-030187	approved	GPS navigation model update mechanism	5.3.0		R2	TEI
25.331	1910	-	Rel-5	F	RP-030201	RP-030201	approved	Layer 3 filtering definition	5.3.0		R2	TEI5
25.993	001	-	Rel-6	F	RP-030109	R2-030489	approved	Streaming and interactive/background RAB combinations	6.0.0	6.1.0	R2	TEI6
25.993	002	-	Rel-6	F	RP-030109	R2-030551	approved	QoS attributes for RABs in 25.993	6.0.0	6.1.0	R2	TEI6
25.993	003	-	Rel-6	F	RP-030109	R2-030598	approved	TDD RABs in 25.993	6.0.0	6.1.0	R2	TEI6
34.109	023	1	R99	F	RP-030162		approved	Removal of uplink dummy DCCH transmission function in UE	3.8.0	3.9.0	R2	TEI
34.109	024	1	Rel-4	A	RP-030162		approved	Removal of uplink dummy DCCH transmission function in UE	4.4.0	4.5.0	R2	TEI
34.109	025	1	Rel-5	A	RP-030162		approved	Removal of uplink dummy DCCH transmission function in UE	5.2.0	5.3.0	R2	TEI
25.306	058	1	R99	F	RP-030118	R2-030563	rejected	Variable Tx/Rx frequency separation in 1800 and 1900 band	3.7.0	3.8.0	R2	TEI
25.306	059	1	Rel-4	A	RP-030118	R2-030564	rejected	Variable Tx/Rx frequency separation in 1800 and 1900 band	4.6.0	4.7.0	R2	TEI
25.306	060	1	Rel-5	A	RP-030118	R2-030565	rejected	Variable Tx/Rx frequency separation in 1800 and 1900 band	5.3.0	5.4.0	R2	TEI
25.331	1826	-	R99	F	RP-030118	R2-030449	rejected	Variable Tx/Rx frequency separation in 1800 and 1900 band	3.13.0	3.14.0	R2	TEI
25.331	1827	-	Rel-4	A	RP-030118	R2-030450	rejected	Variable Tx/Rx frequency separation in 1800 and 1900 band	4.8.0	4.9.0	R2	TEI
25.331	1828	-	Rel-5	A	RP-030118	R2-030451	rejected	Variable Tx/Rx frequency separation in 1800 and 1900	5.3.0	5.4.0	R2	TEI

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								band				
25.331	1904	-	R99	F	RP-030146	None	withdrawn	Correction on GPS navigation model update mechanism	3.13.0	3.14.0	R2	TEI
25.331	1905	-	Rel-4	A	RP-030146	None	withdrawn	Correction on GPS navigation model update mechanism	4.8.0	4.9.0	R2	TEI
25.331	1906	-	Rel-5	A	RP-030146	None	withdrawn	Correction on GPS navigation model update mechanism	5.3.0	5.4.0	R2	TEI
34.109	023	-	R99	F	RP-030108	R2-030428	revised	Removal of uplink dummy DCCH transmission function in UE	3.8.0	3.9.0	R2	TEI
34.109	024	-	Rel-4	A	RP-030108	R2-030429	revised	Removal of uplink dummy DCCH transmission function in UE	4.4.0	4.5.0	R2	TEI
34.109	025	-	Rel-5	A	RP-030108	R2-030430	revised	Removal of uplink dummy DCCH transmission function in UE	5.2.0	5.3.0	R2	TEI
25.215	134	1	Rel-5	F	RP-030081	R1-030206	approved	Non-HSDPA power measurement	5.2.0		R3	HSDPA-Phys
25.401	065	-	Rel-6	C	RP-030084	R3-030048	approved	CR on revising the definition of SAS to support all REL-4 UE positioning methods	5.5.0	6.0.0	R3	LCS-Rel4Pos
25.413	546	1	Rel-5	F	RP-030060	R3-030299	approved	Addition of RAB Subflows mapping onto the transport channel identifiers of Iur in the Source RNC to Target RNC transparent container for HSDPA.	5.3.0	5.4.0	R3	HSDPA-IurIub
25.413	549	-	Rel-4	F	RP-030067	R3-030130	approved	Alignment of "Uncertainty Ellipse" with RRC	4.7.0	4.8.0	R3	TEI4
25.413	550	-	Rel-5	A	RP-030067	R3-030131	approved	Alignment of "Uncertainty Ellipse" with RRC	5.3.0	5.4.0	R3	TEI4
25.413	551	1	Rel-4	F	RP-030056	R3-030297	approved	Duplicated Iu Connection Identifiers	4.7.0	4.8.0	R3	TEI4
25.413	552	1	Rel-5	A	RP-030056	R3-030298	approved	Duplicated Iu Connection Identifiers	5.3.0	5.4.0	R3	TEI4
25.413	557	1	Rel-5	B	RP-030060	R3-030323	approved	Introduction of IMS Signalling "flag" into R5 RANAP	5.3.0	5.4.0	R3	TEI5
25.413	558	-	Rel-5	F	RP-030060	R3-030218	approved	Correction to RANAP due to GERAN Iu mode	5.3.0	5.4.0	R3	GER3GAL-GUCOPL
25.413	561	-	Rel-4	F	RP-030056	R3-030292	approved	Essential correction for IMSI coding	4.7.0	4.8.0	R3	TEI4
25.413	562	-	Rel-5	A	RP-030056	R3-030293	approved	Essential correction of IMSI coding	5.3.0	5.4.0	R3	TEI4
25.414	052	-	Rel-5	F	RP-030061	R3-030148	approved	Minor cleanup of 25.414	5.3.0	5.4.0	R3	TEI5
25.414	053	-	R99	F	RP-030054	R3-030182	approved	TCP Port number	3.12.0	3.13.0	R3	TEI
25.414	054	-	Rel-4	A	RP-030054	R3-030183	approved	TCP Port number	4.5.0	4.6.0	R3	TEI
25.414	055	-	Rel-5	A	RP-030054	R3-030184	approved	TCP Port number	5.3.0	5.4.0	R3	TEI
25.419	107	1	Rel-4	F	RP-030057	R3-030290	approved	Correction of Write and Replace functions of SABP	4.6.0	4.7.0	R3	TEI4
25.419	108	1	Rel-5	A	RP-030057	R3-030291	approved	Correction of Write and Replace functions of SABP	5.2.0	5.3.0	R3	TEI4
25.423	766	-	Rel-4	F	RP-030068	R3-030054	approved	Clarification to DL Power definition for TDD	4.7.0	4.8.0	R3	TEI4
25.423	767	-	Rel-5	A	RP-030068	R3-030055	approved	Clarification to DL Power definition for TDD	5.4.0	5.5.0	R3	TEI4
25.423	768	2	Rel-5	F	RP-030077	R3-030361	approved	Correction to DL Tx Power for TDD	5.4.0	5.5.0	R3	TEI5
25.423	769	1	Rel-4	F	RP-030072	R3-030279	approved	TPC Step Size for TDD	4.7.0	4.8.0	R3	TEI4
25.423	770	1	Rel-5	A	RP-030072	R3-030280	approved	TPC Step Size for TDD	5.4.0	5.5.0	R3	TEI4
25.423	771	-	Rel-4	F	RP-030069	R3-030064	approved	Clarification to 2nd Interleaving Mode for TDD	4.7.0	4.8.0	R3	TEI4
25.423	772	-	Rel-5	A	RP-030069	R3-030065	approved	Clarification to 2nd Interleaving Mode for TDD	5.4.0	5.5.0	R3	TEI4
25.423	773	1	Rel-5	F	RP-030078	R3-030296	approved	HS-PDSCH RNSAP Corrections for TDD	5.4.0	5.5.0	R3	HSDPA-IubIur
25.423	775	1	Rel-5	F	RP-030073	R3-030301	approved	Clarification of HS-SCCH Power Offset usage in case of multiple HS-SCCHs	5.4.0	5.5.0	R3	TEI5
25.423	778	-	Rel-5	F	RP-030062	R3-030077	approved	Correction of Guaranteed DL Rate	5.4.0	5.5.0	R3	TEI5

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.423	780	1	Rel-5	F	RP-030062	R3-030317	approved	Correction of the TDD UE capabilities necessary to pass from SRNC to CRNC	5.4.0	5.5.0	R3	TEI5
25.423	781	1	Rel-5	F	RP-030080	R3-030311	approved	HS-SICH quality Reporting to support outer loop power control	5.4.0	5.5.0	R3	HSDPA-Iublur
25.423	782	1	R99	F	RP-030082	R3-030264	approved	Corrections to Channelisation Code TFCI Mapping for TDD	3.12.0	3.13.0	R3	TEI
25.423	783	1	Rel-4	A	RP-030082	R3-030265	approved	Corrections to Channelisation Code TFCI Mapping for TDD	4.7.0	4.8.0	R3	TEI
25.423	784	1	Rel-5	A	RP-030082	R3-030266	approved	Corrections to Channelisation Code TFCI Mapping for TDD	5.4.0	5.5.0	R3	TEI
25.423	785	-	Rel-4	F	RP-030070	R3-030104	approved	Correction for the Information Exchange Initiation procedure	4.7.0	4.8.0	R3	TEI4
25.423	786	-	Rel-5	A	RP-030070	R3-030106	approved	Correction for the Information Exchange Initiation procedure	5.4.0	5.5.0	R3	TEI4
25.423	787	1	Rel-5	F	RP-030074	R3-030302	approved	T1 signalling for HSDPA	5.4.0	5.5.0	R3	HSDPA-Iublur
25.423	788	5	R99	F	RP-030183		approved	Support of Cell Individual Offset in RNSAP	3.12.0	3.13.0	R3	TEI
25.423	789	5	Rel-4	A	RP-030183		approved	Support of Cell Individual Offset in RNSAP	4.7.0	4.8.0	R3	TEI
25.423	790	5	Rel-5	A	RP-030183		approved	Support of Cell Individual Offset in RNSAP	5.4.0	5.5.0	R3	TEI
25.423	791	-	Rel-4	F	RP-030071	R3-030122	approved	Midamble Configuration for Midamble Shift LCR	4.7.0	4.8.0	R3	LCRTDD-Iublur
25.423	792	-	Rel-5	A	RP-030071	R3-030123	approved	Midamble Configuration for Midamble Shift LCR	5.4.0	5.5.0	R3	LCRTDD-Iublur
25.423	795	-	Rel-4	F	RP-030067	R3-030132	approved	Alignment of "Uncertainty Ellipse" with RRC	4.7.0	4.8.0	R3	TEI4
25.423	796	-	Rel-5	A	RP-030067	R3-030133	approved	Alignment of "Uncertainty Ellipse" with RRC	5.4.0	5.5.0	R3	TEI4
25.423	797	2	Rel-4	F	RP-030058	R3-030342	approved	Uplink Timing Advance Control Parameters in LCR TDD	4.7.0	4.8.0	R3	LCRTDD-Iublur
25.423	798	2	Rel-5	A	RP-030058	R3-030343	approved	Uplink Timing Advance Control Parameters in LCR TDD	5.4.0	5.5.0	R3	LCRTDD-Iublur
25.423	800	1	Rel-5	F	RP-030119	R3-030285	approved	Signalling of Midamble Shift and Burst type for HS-PDSCH in TDD	5.4.0	5.5.0	R3	HSDPA-Iublur
25.423	801	-	R99	F	RP-030066	R3-030153	approved	Corrections to DCH Combining in RL SETUP and RL ADDITION	3.12.0	3.13.0	R3	TEI
25.423	802	-	Rel-4	A	RP-030066	R3-030154	approved	Corrections to DCH Combining in RL SETUP and RL ADDITION	4.7.0	4.8.0	R3	TEI
25.423	803	-	Rel-5	A	RP-030066	R3-030152	approved	Corrections to DCH Combining in RL SETUP and RL ADDITION	5.4.0	5.5.0	R3	TEI
25.423	808	-	Rel-4	F	RP-030058	R3-030229	approved	Correction on CGA Additional Shapes	4.7.0	4.8.0	R3	TEI4
25.423	809	-	Rel-5	A	RP-030058	R3-030230	approved	Correction on CGA Additional Shapes	5.4.0	5.5.0	R3	TEI4
25.423	810	2	Rel-5	F	RP-030076	R3-030321	approved	Guaranteed Bit Rate for HSDPA	5.4.0	5.5.0	R3	HSDPA-Iublur
25.425	058	-	Rel-5	F	RP-030075	R3-030313	approved	Clarification for the flow control	5.3.0	5.4.0	R3	HSDPA-Iublur
25.433	790	-	Rel-4	F	RP-030068	R3-030052	approved	Clarification to DL Power definition for TDD	4.7.0	4.8.0	R3	TEI4
25.433	791	-	Rel-5	A	RP-030068	R3-030053	approved	Clarification to DL Power definition for TDD	5.3.0	5.4.0	R3	TEI4
25.433	792	3	Rel-5	F	RP-030077	R3-030360	approved	Correction to DL Tx Power for TDD	5.3.0	5.4.0	R3	TEI5
25.433	793	-	Rel-4	F	RP-030072	R3-030058	approved	TPC Step Size for TDD	4.7.0	4.8.0	R3	TEI4
25.433	794	-	Rel-5	A	RP-030072	R3-030059	approved	TPC Step Size for TDD	5.3.0	5.4.0	R3	TEI4
25.433	795	-	Rel-4	F	RP-030069	R3-030062	approved	Clarification to 2nd Interleaving Mode for TDD	4.7.0	4.8.0	R3	TEI4

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.433	796	-	Rel-5	A	RP-030069	R3-030063	approved	Clarification to 2nd Interleaving Mode for TDD	5.3.0	5.4.0	R3	TEI4
25.433	797	2	Rel-5	F	RP-030063	R3-030363	approved	HS-PDSCH Code and Timeslot Resource Assignment for TDD	5.3.0	5.4.0	R3	HSDPA-IubIur
25.433	798	1	Rel-5	F	RP-030078	R3-030295	approved	HS-PDSCH NBAP Corrections for TDD	5.3.0	5.4.0	R3	HSDPA-IubIur
25.433	800	1	Rel-5	F	RP-030073	R3-030300	approved	Clarification of HS-SCCH Power Offset usage in case of multiple HS-SCCHs	5.3.0	5.4.0	R3	TEI5
25.433	801	1	Rel-5	F	RP-030081	R3-030283	approved	HS-DSCH: Addition of non HS-DSCH power measurement.	5.3.0	5.4.0	R3	HSDPA-IubIur
25.433	803	1	Rel-5	F	RP-030080	R3-030311	approved	HS-SICH quality Reporting to support outer loop power control	5.3.0	5.4.0	R3	HSDPA-IubIur
25.433	804	1	R99	F	RP-030082	R3-030261	approved	Corrections to Channelisation Code TFCI Mapping for TDD	3.12.0	3.13.0	R3	TEI
25.433	805	1	Rel-4	A	RP-030082	R3-030262	approved	Corrections to Channelisation Code TFCI Mapping for TDD	4.7.0	4.8.0	R3	TEI
25.433	806	1	Rel-5	A	RP-030082	R3-030263	approved	Corrections to Channelisation Code TFCI Mapping for TDD	5.3.0	5.4.0	R3	TEI
25.433	807	-	Rel-4	F	RP-030070	R3-030103	approved	Correction for the Information Exchange Initiation procedure	4.7.0	4.8.0	R3	TEI4
25.433	808	-	Rel-5	A	RP-030070	R3-030105	approved	Correction for the Information Exchange Initiation procedure	5.3.0	5.4.0	R3	TEI4
25.433	809	1	Rel-5	F	RP-030074	R3-030303	approved	T1 signalling for HSDPA	5.3.0	5.4.0	R3	HSDPA-IubIur
25.433	810	-	Rel-4	F	RP-030071	R3-030120	approved	Midamble Configuration for Midamble Shift LCR	4.7.0	4.8.0	R3	LCRTDD-IubIur
25.433	811	-	Rel-5	A	RP-030071	R3-030121	approved	Midamble Configuration for Midamble Shift LCR	5.3.0	5.4.0	R3	LCRTDD-IubIur
25.433	816	-	R99	F	RP-030066	R3-030150	approved	Corrections to DCH Combining in RL SETUP and RL ADDITION	3.12.0	3.13.0	R3	TEI
25.433	817	-	Rel-4	A	RP-030066	R3-030151	approved	Corrections to DCH Combining in RL SETUP and RL ADDITION	4.7.0	4.8.0	R3	TEI
25.433	818	-	Rel-5	A	RP-030066	R3-030152	approved	Corrections to DCH Combining in RL SETUP and RL ADDITION	5.3.0	5.4.0	R3	TEI
25.433	822	-	Rel-4	F	RP-030059	R3-030172	approved	Correction of PRACH Midamble for 1.28Mcps TDD	4.7.0	4.8.0	R3	LCRTDD-IubIur
25.433	823	-	Rel-5	A	RP-030059	R3-030173	approved	Correction of PRACH Midamble for 1.28Mcps TDD	5.3.0	5.4.0	R3	LCRTDD-IubIur
25.433	827	2	Rel-5	F	RP-030076	R3-030320	approved	Guaranteed Bit Rate for HSDPA	5.3.0	5.4.0	R3	HSDPA-IubIur
25.435	096	-	Rel-5	F	RP-030075	R3-030314	approved	Clarification for the flow control	5.3.0	5.4.0	R3	HSDPA-IubIur
25.450	003	-	Rel-6	C	RP-030084	R3-030049	approved	CR on revising the position calculation function and definition of SAS to support all REL-4 UE positioning methods	5.1.0	6.0.0	R3	LCS-Rel4Pos
25.452	001	-	Rel-6	C	RP-030084	R3-030050	approved	CR on revising the definition of SAS to support all REL-4 UE positioning methods	5.0.0	6.0.0	R3	LCS-Rel4Pos
25.453	022	2	Rel-6	C	RP-030084	R3-030362	approved	CR on revising the position calculation function and definition of SAS to support all REL-4 UE positioning methods	5.4.0	6.0.0	R3	LCS-Rel4Pos
25.453	023	-	Rel-5	F	RP-030065	R3-030079	approved	CR on GPS Almanac and Satellite Health	5.4.0	5.5.0	R3	TEI5

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.453	024	-	Rel-5	F	RP-030065	R3-030080	approved	CR on GPS Measured Results	5.4.0	5.5.0	R3	TEI5
25.453	026	-	Rel-5	F	RP-030067	R3-030134	approved	Alignment of "Uncertainty Ellipse" with RRC	5.4.0	5.5.0	R3	TEI4
25.453	027	-	Rel-5	F	RP-030070	R3-030278	approved	Correction for the Information Exchange Initiation procedure	5.4.0	5.5.0	R3	TEI4
29.108	011	1	R99	F	RP-030079	R3-030326	approved	Corrections to the list of RANAP messages transferred on the E-interface	3.2.0	3.3.0	R3	GSM/UMTS interworking
29.108	012	1	Rel-4	A	RP-030079	R3-030327	approved	Corrections to the list of RANAP messages transferred on the E-interface	4.3.0	4.4.0	R3	GSM/UMTS interworking
29.108	013	1	Rel-5	A	RP-030079	R3-030328	approved	Corrections to the list of RANAP messages transferred on the E-interface	5.2.0	5.3.0	R3	GSM/UMTS interworking
25.413	547	1	R99	F	RP-030086	R3-030330	rejected	Transfer of UESBI over Iu	3.12.0	3.13.0	R3	RANimp-FSEarlyUE
25.413	548	1	Rel-4	A	RP-030086	R3-030331	rejected	Transfer of UESBI over Iu	4.7.0	4.8.0	R3	RANimp-FSEarlyUE
25.413	555	1	Rel-5	A	RP-030086	R3-030329	rejected	Transfer of UESBI over Iu	5.3.0	5.4.0	R3	RANimp-FSEarlyUE
25.423	788	2	R99	F	RP-030055	R3-030337	revised	Support of Cell Individual Offset in RNSAP	3.12.0	3.13.0	R3	TEI
25.423	788	3	R99	F	RP-030160		revised	Support of Cell Individual Offset in RNSAP	3.12.0	3.13.0	R3	TEI
25.423	788	4	R99	F	RP-030168		revised	Support of Cell Individual Offset in RNSAP	3.12.0		R3	TEI
25.423	789	2	Rel-4	A	RP-030055	R3-030338	revised	Support of Cell Individual Offset in RNSAP	4.7.0	4.8.0	R3	TEI
25.423	789	3	Rel-4	A	RP-030160		revised	Support of Cell Individual Offset in RNSAP	4.7.0	4.8.0	R3	TEI
25.423	789	4	Rel-4	A	RP-030168		revised	Support of Cell Individual Offset in RNSAP	4.7.0		R3	TEI
25.423	790	2	Rel-5	A	RP-030055	R3-030339	revised	Support of Cell Individual Offset in RNSAP	5.4.0	5.5.0	R3	TEI
25.423	790	3	Rel-5	A	RP-030160		revised	Support of Cell Individual Offset in RNSAP	5.4.0	5.5.0	R3	TEI
25.423	790	4	Rel-5	A	RP-030168		revised	Support of Cell Individual Offset in RNSAP	5.4.0		R3	TEI
25.435	095	2	Rel-5	F	RP-030064	R3-030356	rejected	S-CCPCH power setting in case of no data transmission	5.3.0	5.4.0	R3	TEI5
25.101	201	1	Rel-6	F	RP-030048	R4-030259	approved	Addition of requirement of CSICH demodulation when CA is active.	5.5.0		R4	TEI6
25.101	205	1	Rel-5	F	RP-030037	R4-030331	approved	Phase shift due to power steps	5.5.0		R4	TEI5
25.101	212	1	Rel-5	F	RP-030046	R4-030267	approved	Specification of HSDPA FRC Performance for H-Sets 4 & 5	5.5.0		R4	HSDPA-RF
25.101	213	1	Rel-5	F	RP-030046	R4-030268	approved	Specification of HSDPA FRC Performance with Open Loop Transmit Diversity	5.5.0		R4	HSDPA-RF
25.101	215	1	Rel-5	F	RP-030046	R4-030270	approved	Clarification of HSDPA FRC Test Procedure on HS-SCCH Signalling Error	5.5.0		R4	HSDPA-RF
25.101	217		R99	F	RP-030025	R4-030195	approved	The Closed Loop Timing Adjustment Mode parameter for the transmit diversity performance requirements	3.12.0		R4	TEI
25.101	218		Rel-4	A	RP-030025	R4-030196	approved	The Closed Loop Timing Adjustment Mode parameter for the transmit diversity performance requirements	4.6.0		R4	TEI
25.101	219		Rel-5	A	RP-030025	R4-030197	approved	The Closed Loop Timing Adjustment Mode parameter for the transmit diversity performance requirements	5.5.0		R4	TEI
25.101	223		Rel-5	F	RP-030037	R4-030243	approved	Correction to PRACH modulation quality	5.5.0		R4	TEI5

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.101	224		R99	F	RP-030025	R4-030245	approved	Downlink power control during compressed mode tests	3.12.0		R4	TEI
25.101	225		Rel-4	A	RP-030025	R4-030246	approved	Downlink power control during compressed mode tests	4.6.0		R4	TEI
25.101	226		Rel-5	A	RP-030025	R4-030247	approved	Downlink power control during compressed mode tests	5.5.0		R4	TEI
25.101	227		Rel-4	F	RP-030032	R4-030321	approved	Correction to PCH demodulation test	4.6.0		R4	TEI4
25.101	228		Rel-5	A	RP-030032	R4-030322	approved	Correction to PCH demodulation test	5.5.0		R4	TEI4
25.102	133	1	Rel-5	F	RP-030038	R4-030275	approved	Transmit modulation quality clarification	5.3.0		R4	TEI5
25.102	134		Rel-5	F	RP-030047	R4-030306	approved	Clarification of HSDPA FRC test procedure on HS-SCCH signalling error	5.3.0		R4	HSDPA-RF
25.102	135		Rel-5	F	RP-030047	R4-030307	approved	Addition of VRC definition for 3.84 Mcps & 1.28 Mcps TDD in Annex A	5.3.0		R4	HSDPA-RF
25.102	136		Rel-5	B	RP-030047	R4-030309	approved	Additional VRC performance requirement for 1.28 Mcps TDD option	5.3.0		R4	HSDPA-RF
25.104	169	1	R99	F	RP-030029	R4-030293	approved	Protection of the FDD BS receiver	3.11.0		R4	TEI
25.104	170	1	Rel-4	A	RP-030029	R4-030294	approved	Protection of the FDD BS receiver	4.6.0		R4	TEI
25.104	171	1	Rel-5	A	RP-030029	R4-030295	approved	Protection of the FDD BS receiver	5.5.0		R4	TEI
25.104	172	1	Rel-6	A	RP-030029	R4-030296	approved	Protection of the FDD BS receiver	6.0.0		R4	TEI
25.104	175		Rel-6	B	RP-030049	R4-030088	approved	Co-siting requirements for different FDD BS classes	6.0.0		R4	RInImp-BSClass-FDD
25.104	177	4	Rel-6	B	RP-030049	R4-030358	approved	Maximum output power for different BS class	6.0.0		R4	RInImp-BSClass-FDD
25.104	179	1	Rel-5	A	RP-030044	R4-030258	approved	Clarification of the W-CDMA interferer definition in BS requirements for ACS and blocking characteristics	5.5.0		R4	TEI4
25.104	180		Rel-4	F	RP-030035	R4-030141	approved	Correction to external equipment definition	4.6.0		R4	TEI4
25.104	181		Rel-5	A	RP-030035	R4-030142	approved	Correction to external equipment definition	5.5.0		R4	TEI4
25.104	182		Rel-6	A	RP-030035	R4-030143	approved	Correction to external equipment definition	6.0.0		R4	TEI4
25.104	183		Rel-6	A	RP-030044	R4-030263	approved	Clarification of the W-CDMA interferer definition in BS requirements for ACS and blocking characteristics	6.0.0		R4	TEI4
25.104	184		Rel-6	F	RP-030049	R4-030297	approved	The definition of UTRA-FDD BS classes	6.0.0		R4	RInImp-BSClass-FDD
25.105	145		R99	F	RP-030030	R4-030030	approved	TDD-GSM co-existence in the same geographic area	3.12.0		R4	TEI
25.105	146		Rel-4	A	RP-030030	R4-030031	approved	TDD-GSM co-existence in the same geographic area	4.6.0		R4	TEI; LCRTDD-RF
25.105	147		Rel-5	A	RP-030030	R4-030032	approved	TDD-GSM co-existence in the same geographic area	5.3.0		R4	TEI; LCRTDD-RF
25.105	148		Rel-4	F	RP-030035	R4-030148	approved	Correction to external equipment definition	4.6.0		R4	TEI4
25.105	149		Rel-5	A	RP-030035	R4-030149	approved	Correction to external equipment definition	5.3.0		R4	TEI4
25.105	150		Rel-5	F	RP-030045	R4-030298	approved	The definition of UTRA-TDD BS classes	5.3.0		R4	RInImp-BSClass-TDD
25.106	020		Rel-4	F	RP-030036	R4-030100	approved	FDD GSM co-existence in the Same Geographic Area	4.4.0		R4	RInImp-REP
25.106	021		Rel-5	A	RP-030036	R4-030101	approved	FDD GSM co-existence in the Same Geographic Area	5.3.0		R4	RInImp-REP
25.113	020		Rel-5	F	RP-030039	R4-030086	approved	Assessment of BLER in Uplink for Immunity Test	5.3.0		R4	TEI5
25.123	286	1	Rel-4	F	RP-030026	R4-030261	approved	Correction of interruption time in TDD Hard Handover	4.7.0		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	287	1	Rel-5	A	RP-030026	R4-030262	approved	Correction of interruption time in TDD Hard Handover	5.3.0		R4	LCRTDD-RF
25.123	288		R99	F	RP-030026	R4-030018	approved	Correction of interruption time in TDD Hard Handover	3.11.0		R4	TEI
25.123	289		Rel-4	A	RP-030026	R4-030019	approved	Correction of interruption time in TDD Hard Handover	4.7.0		R4	TEI
25.123	290		Rel-5	A	RP-030026	R4-030020	approved	Correction of interruption time in TDD Hard Handover	5.3.0		R4	TEI
25.123	291		Rel-4	F	RP-030033	R4-030047	approved	Total received power density definition for TDD BS	4.7.0		R4	TEI4
25.123	292		Rel-5	A	RP-030033	R4-030048	approved	Total received power density definition for TDD BS	5.3.0		R4	TEI4
25.123	293		R99	F	RP-030026	R4-030049	approved	Transmitted code power accuracy	3.11.0		R4	TEI
25.123	294		Rel-4	A	RP-030026	R4-030050	approved	Transmitted code power accuracy	4.7.0		R4	TEI
25.123	295		Rel-5	A	RP-030026	R4-030051	approved	Transmitted code power accuracy	5.3.0		R4	TEI
25.123	296		R99	F	RP-030026	R4-030052	approved	UE Timer accuracy for TDD	3.11.0		R4	TEI
25.123	297		Rel-4	A	RP-030026	R4-030053	approved	UE Timer accuracy for TDD	4.7.0		R4	TEI
25.123	298		Rel-5	A	RP-030026	R4-030054	approved	UE Timer accuracy for TDD	5.3.0		R4	TEI
25.133	510		R99	F	RP-030027	R4-030012	approved	Correction of interruption time in FDD/TDD Hard Handover	3.12.0		R4	TEI
25.133	511		Rel-4	A	RP-030027	R4-030013	approved	Correction of interruption time in FDD/TDD Hard Handover	4.7.0		R4	TEI
25.133	512		Rel-5	A	RP-030027	R4-030014	approved	Correction of interruption time in FDD/TDD Hard Handover	5.5.0		R4	TEI
25.133	513		Rel-6	A	RP-030027	R4-030015	approved	Correction of interruption time in FDD/TDD Hard Handover	6.0.0		R4	TEI
25.133	514		R99	F	RP-030027	R4-030021	approved	Applicability of Timer T-reselection for 2G cell reselection.	3.12.0		R4	TEI
25.133	515		Rel-4	A	RP-030027	R4-030022	approved	Applicability of Timer T-reselection for 2G cell reselection.	4.7.0		R4	TEI
25.133	516		Rel-5	A	RP-030027	R4-030023	approved	Applicability of Timer T-reselection for 2G cell reselection.	5.5.0		R4	TEI
25.133	517		Rel-6	A	RP-030027	R4-030024	approved	Applicability of Timer T-reselection for 2G cell reselection.	6.0.0		R4	TEI
25.133	519		Rel-5	F	RP-030040	R4-030073	approved	Correction of measurement and reporting capability requirements in CELL_DCH state in case of parallel measurements	5.5.0		R4	TEI5
25.133	520		Rel-6	A	RP-030040	R4-030074	approved	Correction of measurement and reporting capability requirements in CELL_DCH state in case of parallel measurements	6.0.0		R4	TEI5
25.133	521		Rel-5	A	RP-030027	R4-030076	approved	Correction of Hard HO test case	5.5.0		R4	TEI
25.133	522		Rel-6	A	RP-030027	R4-030077	approved	Correction of Hard HO test case	6.0.0		R4	TEI
25.133	525		Rel-4	F	RP-030034	R4-030114	approved	UE rx-tx time difference type 1	4.7.0		R4	TEI4
25.133	526		Rel-5	A	RP-030034	R4-030115	approved	UE rx-tx time difference type 1	5.5.0		R4	TEI4
25.133	527		Rel-6	A	RP-030034	R4-030116	approved	UE rx-tx time difference type 1	6.0.0		R4	TEI4
25.133	528		R99	F	RP-030027	R4-030154	approved	Correction of Hard HO test case	3.12.0		R4	TEI
25.133	529		Rel-4	A	RP-030027	R4-030155	approved	Correction of Hard HO test case	4.7.0		R4	TEI
25.133	532		Rel-5	F	RP-030040	R4-030187	approved	Changes to TFC selection requirements for codec mode switch	5.5.0		R4	TEI5
25.133	533		Rel-6	A	RP-030040	R4-030188	approved	Changes to TFC selection requirements for codec mode switch	6.0.0		R4	TEI5
25.133	544		R99	F	RP-030027	R4-030248	approved	Constant Value in Random Access Test requirements	3.12.0		R4	TEI
25.133	545		Rel-4	A	RP-030027	R4-030249	approved	Constant Value in Random Access Test requirements	4.7.0		R4	TEI
25.133	546		Rel-5	A	RP-030027	R4-030250	approved	Constant Value in Random Access Test requirements	5.5.0		R4	TEI
25.133	547		Rel-6	A	RP-030027	R4-030251	approved	Constant Value in Random Access Test requirements	6.0.0		R4	TEI
25.133	548		R99	F	RP-030031	R4-030278	approved	Correction of UE parameters for Random Access test	3.12.0		R4	TEI

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.133	549		Rel-4	A	RP-030031	R4-030279	approved	Correction of UE parameters for Random Access test	4.7.0		R4	TEI
25.133	550		Rel-5	A	RP-030031	R4-030280	approved	Correction of UE parameters for Random Access test	5.5.0		R4	TEI
25.133	551		Rel-6	A	RP-030031	R4-030281	approved	Correction of UE parameters for Random Access test	6.0.0		R4	TEI
25.133	553		Rel-6	F	RP-030048	R4-030319	approved	Corrections of CPICH_Ec/Io relative measurement accuracy requirement	6.0.0		R4	TEI6
25.141	270	1	R99	F	RP-030029	R4-030314	approved	Protection of the FDD BS receiver	3.12.0		R4	TEI
25.141	271	1	Rel-4	A	RP-030029	R4-030315	approved	Protection of the FDD BS receiver	4.7.0		R4	TEI
25.141	272	1	Rel-5	A	RP-030029	R4-030316	approved	Protection of the FDD BS receiver	5.5.0		R4	TEI
25.141	273	1	Rel-6	A	RP-030029	R4-030317	approved	Protection of the FDD BS receiver	6.0.0		R4	TEI
25.141	276		Rel-6	B	RP-030049	R4-030089	approved	Co-siting requirements for different FDD BS classes	6.0.0		R4	RInImp-BSClass-FDD
25.141	278	3	Rel-6	B	RP-030049	R4-030350	approved	Maximum output power for different BS class	6.0.0		R4	RInImp-BSClass-FDD
25.141	279	1	Rel-5	F	RP-030041	R4-030289	approved	Statistical approach for BER BLER tests	5.5.0		R4	TEI5
25.141	280	1	Rel-6	A	RP-030041	R4-030292	approved	Statistical approach for BER BLER tests	6.0.0		R4	TEI5
25.141	285	1	Rel-5	F	RP-030044	R4-030264	approved	Clarification of the W-CDMA interferer definition in BS conformance tests for ACS and blocking characteristics	5.5.0		R4	TEI5
25.141	286		Rel-4	F	RP-030035	R4-030144	approved	Correction to external equipment definition	4.7.0		R4	TEI4
25.141	287		Rel-5	A	RP-030035	R4-030145	approved	Correction to external equipment definition	5.5.0		R4	TEI4
25.141	288		Rel-6	A	RP-030035	R4-030146	approved	Correction to external equipment definition	6.0.0		R4	TEI4
25.141	289		Rel-6	A	RP-030044	R4-030265	approved	Clarification of the W-CDMA interferer definition in BS conformance tests for ACS and blocking characteristics	6.0.0		R4	TEI5
25.141	290		Rel-6	F	RP-030049	R4-030299	approved	The definition of UTRA-FDD BS classes	6.0.0		R4	RInImp-BSClass-FDD
25.142	156		R99	F	RP-030030	R4-030033	approved	TDD-GSM co-existence in the same geographic area	3.12.0		R4	TEI
25.142	157		Rel-4	A	RP-030030	R4-030034	approved	TDD-GSM co-existence in the same geographic area	4.7.0		R4	TEI; LCRTDD-RF
25.142	158		Rel-5	A	RP-030030	R4-030035	approved	TDD-GSM co-existence in the same geographic area	5.3.0		R4	TEI;LCRTDD-RF
25.142	159		R99	F	RP-030028	R4-030036	approved	Spurious emission requirements for unsynchronized TDD operation	3.12.0		R4	TEI
25.142	160		Rel-4	F	RP-030028	R4-030037	approved	Spurious emission requirements for unsynchronized TDD operation	4.7.0		R4	TEI; LCRTDD-RF
25.142	161		Rel-5	F	RP-030028	R4-030038	approved	Spurious emission requirements for unsynchronized TDD operation	5.3.0		R4	TEI; LCRTDD-RF; RInImp-BSClass-TDD
25.142	162		Rel-5	F	RP-030042	R4-030039	approved	Correction to BS configurations	5.3.0		R4	TEI5
25.142	163		Rel-4	F	RP-030035	R4-030150	approved	Correction to external equipment definition	4.7.0		R4	TEI4
25.142	164		Rel-5	A	RP-030035	R4-030151	approved	Correction to external equipment definition	5.3.0		R4	TEI4
25.142	165		Rel-5	F	RP-030042	R4-030252	approved	Correction of Transmit Modulation testing for 3,84 Mcps TDD Option	5.3.0		R4	TEI5
25.142	166		Rel-5	F	RP-030045	R4-030300	approved	The definition of UTRA-TDD BS classes	5.3.0		R4	RInImp-BSClass-TDD

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.143	029		Rel-4	F	RP-030036	R4-030102	approved	FDD GSM co-existence in the Same Geographic Area	4.6.0		R4	RInImp-REP
25.143	030		Rel-5	A	RP-030036	R4-030103	approved	FDD GSM co-existence in the Same Geographic Area	5.3.0		R4	RInImp-REP
25.952	002		Rel-5	F	RP-030045	R4-030301	approved	The definition of UTRA-TDD BS classes	5.1.0		R4	BSClass-TDD
34.124	012	1	Rel-5	A	RP-030144	RP-030144	approved	Correction to radiated spurious emission measurement bandwidth	5.2.0		R4	TEI
34.124	013	-	R99	F	RP-030144	RP-030144	approved	Correction to radiated spurious emission measurement bandwidth	3.3.0		R4	TEI
34.124	014	-	Rel-4	A	RP-030144	RP-030144	approved	Correction to radiated spurious emission measurement bandwidth	4.1.0		R4	TEI
25.101	207	1	R99	F	RP-030118	R4-030286	rejected	Variable TX/RX frequency separation in the 1800 and 1900 bands	3.12.0		R4	TEI
25.101	207	2	R99	F	RP-030167		rejected	Variable Tx/Rx frequency separation in the 1800 and 1900 bands	3.12.0		R4	-
25.101	208	1	Rel-4	A	RP-030118	R4-030287	rejected	Variable TX/RX frequency separation in the 1800 and 1900 bands	4.6.0		R4	TEI
25.101	208	2	Rel-4	A	RP-030167		rejected	Variable Tx/Rx frequency separation in the 1800 and 1900 bands	4.6.0		R4	-
25.101	209	1	Rel-5	A	RP-030118	R4-030288	rejected	Variable TX/RX frequency separation in the 1800 and 1900 bands	5.5.0		R4	TEI
25.101	209	2	Rel-5	A	RP-030167		rejected	Variable Tx/Rx frequency separation in the 1800 and 1900 bands	5.5.0		R4	-
34.124	012		Rel-5	F	RP-030043	R4-030041	withdrawn	Correction to radiated spurious emission measurement bandwidth	5.2.0		R4	TEI5

Annex D: List of actions

All WGs
- Provide clear and solid evidence that the system will not work in the "consequences if not approved" field of the CR cover page for Rel99 and Rel-4 CRs
- Provide accurate information on the expected completion date and percentage completed for the Work Items

RAN WG1
- Study the need to specify the TFCI power on S-CCPCH in case of no data, and inform RAN WG3 of the conclusion (sec. 8.3.5)

RAN WG2
- Liaise with SA WG4 to check the correctness of the assumptions of the test for the conversational services in PS domain. (RP-030127)

RAN WG3
- Verify the delays used by SA WG4 in the test for the conversational services in PS domain (RP-030127)
- Review the Description Sheet of the "Iu enhancements for IMS support in the RAN" WI (RP-030191)

RAN WG4
- To examine the issue of the performance impact in the UE of the variable duplex distance, and to provide CRs to next TSG RAN if possible (sec. 8.2.6)
- Review and ~~and~~ send, if agreed, the LS to AISG (RP-030184).

Annex E: Meeting schedule

TSG RAN WG1 meetings:

Meeting #	Date	Host	Location
32	7-11 April 2003	Samsung	Seoul, Korea
33	19-23 May 2003	European Friends of 3GPP	Paris, France
34	25-29 August 2003	North American Friends of 3GPP	New York, USA
35	6-10 October 2003	Samsung	Seoul, Korea
36	17-21 November 2003	European Friends of 3GPP	Lisbon, Portugal

TSG RAN WG2 meetings:

Meeting #	Date	Host	Location
35	07 - 11 April 2003	Samsung	Seoul, Korea
36	19 - 23 May 2003	European Friends of 3GPP	Paris, France
37	25 - 29 August 2003	European Friends of 3GPP	Europe
38	06 - 10 October 2003	ETSI	Sophia Antipolis, France
39	17 - 21 November 2003	Qualcomm	San Diego, US

TSG RAN WG3 meetings:

Meeting #	Date	Host	Location
35	07 - 11 April 2003	Samsung	Seoul, Korea
36	19 - 23 May 2003	European Friends of 3GPP	Paris, France
37	25 - 29 August 2003	European Friends of 3GPP	Europe
38	06 - 10 October 2003	ETSI	Sophia Antipolis, France
39	17 - 21 November 2003	Qualcomm	San Diego, US

TSG RAN WG4 meetings:

Meeting #	Date	Host	Location
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
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		Europe

Annex F: Summary of RAN Work Items

This table lists RAN Work Items, existing and new, discussed at meeting #19. 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, which is a Release 5 WI, 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	5%	Sept 03	RP-030151	Completion date changed from June 03
BB	Terminal power saving features	RInImp-TPS	WG2	0%		RP-030007	No work done. Closed
~~BB~~Feat	Multiple Input Multiple Output antennas (MIMO)	RInImp-MIMO	WG1	40%	Sept 03	RP-030012	The WIDS is updated in RP-030192. Also, new WIs are created for each WG.
New WI	Multiple Input Multiple Output Antennas – Physical Layer	RInImp-MIMO-Phys	WG1		Sept 03		New WI. Description Sheet in RP-030192
New WI	Multiple Input Multiple Output Antennas – Layer 2,3 aspects	RInImp-MIMO-L23	WG2		Sept 03		New WI. Description Sheet in RP-030192
New WI	Multiple Input Multiple Output Antennas- Iub/Iur Protocol Aspects	RInImp-MIMO-IubIur	WG3		Sept 03		New WI. Description Sheet in RP-030192
New WI	Multiple Input Multiple Output Antennas - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	RInImp-MIMO-RF	WG4		March 04		New WI. Description Sheet in RP-030192
BB	Improving Receiver Performance Requirements for the FDD UE	RInImp -UERecPerf	WG4	-	Sept 03	RP-030050	
BB	UMTS 850	RInImp-UMTS850	WG4	10%	March 04	RP-030163	Updated WIDS in RP-030197
New BB	DS-CDMA Introduction in the 800 MHz Band	RInImp-UMTS800	WG4		Sept 03		New WI. Description Sheet in RP-030178
New BB	UMTS 1.7/2.1 GHz	RInImp-UMTS1721	WG4		Dec 03		New WI. Description Sheet in RP-030186
SI	FS on Radio link performance enhancements	RInImp-RIperf	WG1	40%	Sept 03	RP-030089	

Type	WI name	WI acronym	Leading WG	%	Finish date	Status report	Remarks
SI	FS on Fast Cell Selection (FCS) for HS-DSCH	RInImp-FCS	WG1	20%	March 03	RP-030154	No progress, SI Closed
SI	FS on UTRA Wideband Distribution System	RInImp-WDS	WG4	40%	Sept 03	RP-030013	Completion date changed from March 03
SI	FS for the viable deployment of UTRA in additional and diverse spectrum arrangements	RInImp-UMTSBands	WG4	90%	June 03	RP-030004	Completion date changed from March 03
SI	FS on Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD	RInImp-IfIsMLCR	WG1	55%	Sept 03	RP-030180	Completion date changed from March 03
SI	FS for the Analysis of OFDM for UTRAN enhancement	RInImp-FSOFDM	WG1	30%	Dec 03	RP-030161	Completion date changed from June 03
SI	FS on Uplink Enhancements for Dedicated Transport Channels	RInImp-FSUpDTrCh	WG1	35%	Dec 03	RP-030158~~58~~90	Completion date changed from June 03
SI	FS on Analysis of higher chip rates for UTRA TDD evolution	RInImp-FSVHCRTDD	WG1	30%	Dec 03	RP-030094	Completion date changed from June 03
New SI	FS on Low Output Powers for general purpose FDD BSs		WG4		Sept 03		New SI. Description Sheet in RP-030198
Feat	**RAN Improvement Feature**	RANimp	TSG RAN				
BB	Radio access bearer support enhancement	RANimp-RABSE	WG2	0%		RP-030006	Generic WI
New WT	Iu enhancements for IMS support in the RAN	RANimp-RABSE-IuEnhIMS	WG3		Sept 03		New WI. Description Sheet in RP-030191
BB	Improvement of RRM across RNS and RNS/BSS	RRM1	WG3	35%	Dec 03	RP-030083	Completion date changed from June 03
BB	Beamforming Enhancements	RANimp-BFE	WG1	80%	June 03	RP-030088	
SI	FS on the Evolution of UTRAN Architecture	RANimp-FSEvo	WG3	5%	June 03	RP-030085	
SI	FS for the Early Mobile Handling in UTRAN	RANimp-FSEarlyUE	WG2	65%	June 03	RP-030010	Completion date changed from March 03
BB	RRM optimizations for Iur and Iub	RANimp-RRMopt	WG3				Generic BB
SI	Improved Access to UE Measurement Data for CRNC to support TDD RRM		WG3	15%	June 03	RP-030087	
New BB	Remote Control of Electrical Tilting Antennas	RANimp-TiltAnt	WG3		Dec 03		New WI. Description Sheet in RP-030193
New BB	Network Assisted Cell Change (NACC) from UTRAN to GERAN – network-side aspects	RANimp-NACC	WG3		Sept 03		New WI. Description Sheet in RP-030156
BB	UE positioning		TSG RAN				This is a building block under SA WG2 feature "Location Services"
WT	UE positioning enhancements		WG2				Generic WI
WT	Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods	LCS-Rel4Pos	WG2	90%	June 03	RP-030008	Completion date changed from March 03
SI	FS on Enhancements to OTDOA Positioning using advanced blanking methods		WG2	50%	June 03	RP-030011	
Feat	**High Speed Downlink Packet Access**	HSDPA	TSG RAN				

Type	WI name	WI acronym	Leading WG	%	Finish date	Status report	Remarks
BB	HSDPA - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	HSDPA-RF	WG4	90%	June 03	RP-030096	Completion date changed from March 03, HSDPA-RF remains part of Rel-5
BB	Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN	MBMS-RAN	WG2	15%	Sept 03	RP-030143	Updated WIDS in RP-030015
Feat	Evolution of the transport in the UTRAN	ETRAN	TSG RAN				Generic Feature