3GPP TSG-RAN Meeting #19 *RP-030002*
Birmingham, United Kingdom, 11 - 14 March 2003

Title:	**Revised Draft Report of the 18th 3GPP TSG RAN meeting (New Orleans, LA, USA, 3 - 6 December 2002)**
Document for:	**Approval**
Source:	**3GPP support team**

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Contents

Executive Report

TSG RAN meeting #18 took place in New Orleans (Louisiana, US). The meeting started at 9:00 on Tuesday 3rd December 2002 and finished at 12:30 on Friday 6th December 2002. 97 participants were registered and 231 documents were presented.
The approved Change Requests (CRs) are summarized in the following table:

Release	WG1	WG2	WG3	WG4	Total
Release 99	1	44	12	12	69
Rel-4 CRs (Rel-4 excluding Cat A)	9 (9)	56 (11)	31 (24)	45 (34)	141 (78)
Rel-5 CRs (Rel-5 excluding Cat A)	22 (17)	82 (27)	58 (29)	59 (20)	221 (93)
Rel-6 CRs, Cat. B				7	7
Total CRs (Total excluding Cat A)	32 (27)	182 (82)	101 (65)	123 (73)	438 (247)

Release 99, Release 4 & Release 5

The main topic of discussion in Release 99 was the Handling of Early UE (section 8.7.11). Considerable progress was achieved, the meeting agreed on the so called "Early Hooks on the Air Interface" solution and approved a set of CRs (RP-020726) defining the containers for the SBI (Specific Behaviour Information) IEs (Information Element), to be used when the need arises.
The meeting also agreed to implement an Iu based solution, which will allow the transfer of IMEI-based information from the Core Network to the RNC. Two proposals for the specific contents of that information are available: IMEI-SV as such or a bitmap based on IMEI-SV. An Ad Hoc will be hold at the end of January 2003 to further discuss the proposals so a final decision can be adopted at TSG RAN in March 2003.

The applicability of Closed Loop TX Diversity Mode 2 for HSDPA was discussed. It was finally decide to postpone it for Rel-6 or later (sec. 7.1.2.1).

HS-DPCCH performance requirements had been reconsidered in WG1 and it seems they are difficult to fulfil, some companies proposed a new scheme to improve the decoding of the HARQ in the Node B. The new scheme was discussed and finally considered an improvement for later Releases (sec.7.1.2.2).

TR 25.993 v2.0.0, "Typical examples of RABs and RBs supported by UTRAN", was presented and approved (RP-020890).

CRs for Group Release due to RNC reset were presented, but no solution was agreed, 3 additional months of discussion are required (section 7.2.2.1)

It was agreed that clarification changes should be applied to Release 5 onwards (Not Release 4) (sec. 7.1.4)

CRs were presented under the Rel-5 HSDPA-RF Work Item, expected completion by March 2003 (sec. 8.4).

Release 6 and beyond

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

FDD BS Classification Work Item was considered finished, a first set of CRs was approved (sec. 8.1.2).

MIMO WI Description Sheet is revised to explicitly include TDD. This revision will be checked by WG1 (sec. 8.1.4).

A joint WG2/WG3 Ad Hoc for MBMS is scheduled for 15th 16th January 2003 (sec. 8.5).

A LS from SA WG5 was received concerning Trace requirements (RP-020869). A proposal for a WI was presented (RP-020830), but it was decided to wait for a joint meeting RAN WG2/ RAN WG3/ SA WG5 on the issue before agreeing on the precise terms of the WI.

New Work Items approved:

- New Work Item: UMTS 850 (RP-020875)
- New Study Item: Improved Access to UE Measurement Data for CRNC to support RRM (RP-020901)

There was some discussion on the future organization of the work, prompted by 3GPP PCG requirements to reduce expenses and improve efficiency. A first proposal to reduce the number of TSGs to 3 per year was debated (sec. 7.3.2).

1 Opening of the meeting

Francois Courau (Chairman) opened the meeting and welcome the delegates at 9:00 on Tuesday. Don Zelmer (vice chairman) explained briefly the meeting arrangements on behalf of the North American Friends of 3GPP.

2 Approval of the agenda

RP-020674 Proposed agenda meeting #18 (Chairman)
Agenda item 8.1.5 is a duplication of 8.2.2, it is therefore removed
Decision: The agenda is approved

3 Approval of the meeting report of TSG RAN #16

RP-020676 Revised draft Report of the 17th TSG-RAN meeting (Biarritz, France, 3-6 September 2002) (Secretary)
No comments
Decision: The report was approved. The approved report would be available in RP-020677.

4 Reminder of IPR declaration

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

> The attention of the members of this Technical Specification Group is drawn to the fact **that 3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners to **inform their respective** Organizational Partners **of Essential IPRs they become aware of**.
> The members take note that they are hereby invited:
> - to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
> - to notify the Chairman, or the Director-General of their **respective** Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms.

5 Chairman Report of TSG SA #17

The chairman had already reported by email the issues concerning RAN. He had also reported by email about the last PCG/OP meeting ~~by email~~.

6 Liaisons from other groups

6.1 Groups outside 3GPP

RP-020686 LS on Document Review of DTR/MTS0082 UMTS Network Integration Testing Methodology and TSS&TP (MTS#35TD020, to 3GPP RAN, 3GPP CN and ETSI SPAN) (ETSI MTS)

The chairman explained that the test studied by ETSI MTS is end-to-end, so he suggested that this is not a RAN issue. Telecom Italia questioned which group in 3GPP would be responsible for end-to-end testing. The chairman clarified that it should be one of the CN groups and OMA in any case, and proposed to draft a small liaison to MTS along those lines. From a TSG RAN perspective, MTS is using March 2001 version of the Iu specification, which has been changed in a non-backwards compatible manner since then.
However, the chairman noted that the Terms of Reference of MTS have been recently changed in such a way that the work on UMTS is out of its scope now, so it is unclear whether this work will continue on this group or not.
Decision: The LS is noted

RP-020687 LS on the completion of the FDD BS Classification Work Item (MSG-02-012, to 3GPP RAN WG4 and 3GPP RAN) (ETSI MSG)

ETSI MSG is asking TSG RAN to approve the CRs on the FDD Base Station Classification Work Item in this meeting, and also to produce the Release 6 versions of 25.104 and 25.141. ARIB asked in a separate paper (RP-020828) to introduce a regional requirement in case RAN to agree with the creation of release 6 specifications under this WI. The chairman suggested to put off the discussion to agenda item 8.1.2 FDD BS classification WI.
Decision: The LS is noted

RP-020833 Revision of Q15/11 to explicitly include RAN support (COM 11-LS15-E, to ETSI, for 3GPP RAN) (ITU-T SG 11)

Martin Israelsson (WG3 chairman) presented briefly the LS and suggested to forward it to WG3, the interested WG.
Decision: The LS is noted

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

RP-020684 LS on proposed TR for the architectural aspects of early UE handling (S2-023102, to TSG RAN, GERAN2, RAN2, RAN3) (SA WG2)

See section 8.7.11

RP-020898 LS on Coding of Maximum Offset and Included Angle (S2-023668, to TSG RAN and GERAN2) (SA WG2)

RP-020774 LS on Coding of Maximum Offset and Included Angle (GP-023535, to TSG SA, SA2 cc TSG RAN) (TSG GERAN)

The LS from SA WG2 asks GERAN and TSG RAN to check the correctness of the new coding. Nokia will raise comments in TSG SA next week if in house check proves it necessary.
Decision: The LSs are noted

RP-020869 Reply LS on Subscriber and Equipment Trace Impacts (S5-028619, to TSG RAN, RAN2, RAN3) (SA WG5)

The LS provides requirements and justification for Trace. Denis Fauconnier (Nortel) explained that this LS impacts WG2 and WG3, and there are some issues where SA WG5 seems to have wrong assumptions and would need guidance. In any case, Nortel will provide to this meeting a Rel-6 Work Item proposal (RP-020830) to cover the work in RAN.
Decision: The LS is noted

RP-020894 LS on LCS architecture descriptions for TS23.002 update (S2-023671, to RAN, GERAN) (SA WG2)

SA WG2 is aligning the LCS architecture document with RAN documents, and in the process SA WG2 has identified some questions for clarification. The LS will be forwarded to RAN WG2 and WG3, these groups are tasked to answer SA WG2.
Decision: The LS is noted

RP-020891 LS on Early UE handling (S2-023664, to RAN2, RAN3, CN4, GERAN2, TSG RAN, TSG SA (SA WG2)

See section 8.7.11

RP-020887 LS on Group Release security solution (S3-020688 to TSG RAN, RAN2) (SA WG3)

See section 7.2.2

6.3 TSG RAN WGs

RP-020678 Response LS on Additional RAB configurations in 34.108 (R1-02-1447, to RAN2, cc TSG RAN, T1) (RAN WG1)

WG1 has checked the new RAB proposed by WG2 and confirms that the content is correct, WG1 leaves to WG2 to decide where to incorporate it, to TS 34.108 or TR 25.993.
Decision: The LS is noted

RP-020679 LS on HS-DPCCH performance (R1-02-1457, to RAN2, RAN3, cc TSG RAN) (RAN WG1)

RP-020683 Response to LS (R1-02-1457, R2-023025) on HS-DPCCH performance (R2-023281 to TSG RAN, RAN1) (RAN WG2)

WG1 has studied the performance requirements for the HS-DPCCH and judged them very difficult to fulfil with the current physical layer specification. A new scheme is proposed, although it is merely endorsed by WG1 subject to simulation results (yet to be presented) from some companies. The new scheme is based on the introduction of two new physical layer signals in the HS-DPCCH, and will be enable/disabled by higher layer signalling. WG1 asks WG2 if it is necessary that these new signal are available to upper layers, and WG2&WG3 to make the necessary changes to the protocols to implement the signalling.
WG2 answer clarifies that the two phys. layer signals are not required at upper layers and suggest that the new schema should be "always on", hence no need for upper layer enabling/disabling.
Tim Moulsley (Phillips) noted that there has been discussion on going on the WG1 reflector, and some further results will be presented later in the meeting. Howard Benn (WG4 chairman) suggested that WG4 is included in this LS exchange, as the group responsible to set performance requirements. This was endorsed by the group. See section 7.1.2
Decision: The LSs are noted

RP-020680 Liaison Statement on Removal of RABs from TS 34.108 (R2-023262, to TSG RAN, TSG T) (RAN WG2)

After the debate in last TSG RAN on the creation of the new RAB report (TR 25.993), it was discussed in WG2 that there are some RABs currently in 34.108 that are not used for testing. WG2 proposes a list of RABs to be deleted, and asks TSG RAN and TSG T to take a decision. TSG T has seen this LS but it didn't take any decision, it forwarded the ~~decision~~ task to T WG1. In principle, TSG RAN doesn't have any objection to the removal, but the decision has to be adopted in the T groups. Alan Law (Vodafone) explained that from its point of view, and after consultation with some T WG1 experts, the removal of some of the RABs doesn't speed up significantly the testing of UEs. He reminded also that these RABs are used by the GCF for priorisation of the test cases.
Decision: The LS is noted.

RP-020681 LS on outcome of group release discussions in RAN2 (R2-023263, to SA3, cc TSG RAN) (RAN WG2)

It seems that SA WG3 has already agreed an answer, the LS will be reviewed when the CRs are presented. Vodafone will make available an alternative proposal in this meeting, to be evaluated by participants. See section 7.2.2
Decision: The LS is noted

RP-020682 LS on HSDPA parameter value ranges (R2-023269, to RAN1, cc TSG RAN) (RAN WG2)

Upon reception of the LS, WG1 reviewed the parameter ranges and answered WG2. This triggered a revision of the WG2 CR in RP-020737, finally presented in RP-020855.
Decision: The LS is noted

RP-020685 REPLY LS on proposed TR for the architectural aspects of early UE handling (R3-022557 to TSG RAN, RAN2, SA2, CN4, GERAN2) (RAN WG3)

See section 8.7.11

Summary of incoming LSs:

Tdoc	Title	Source	Source File	Conclusion
RP-020686	LS on Document Review of DTR/MTS0082 UMTS Network Integration Testing Methodology and TSS&TP	ETSI MTS	MTS#35TD020	Noted. The chairman will report to TSG SA
RP-020687	LS on the completion of the FDD BS Classification Work Item	ETSI MSG	MSG-02-012	FDD BS Class Specifications will be produced
RP-020833	Revision of Q15/11 to explicitly include RAN support	ITU-T SG 11	COM 11-LS15-E	To be reviewed by WG3
RP-020898	LS on Coding of Maximum Offset and Included Angle	SA WG2	S2-023668	The LS is sent to TSG SA also, comments to be raised there if necessary
RP-020774	LS on Coding of Maximum Offset and Included Angle	TSG GERAN	GP-023535	
RP-020869	Reply LS on Subscriber and Equipment Trace Impacts	SA WG5	S5-028619	Proposed WID Sheet in RP-020830 (sec. 8.8)
RP-020894	LS on LCS architecture descriptions for TS23.002 update	SA WG2	S2-023671	RAN WG2 & WG3 to answer SA WG2
RP-020678	Response LS on Additional RAB configurations in 34.108	RAN WG1	R1-02-1447	Noted
RP-020679	LS on HS-DPCCH performance	RAN WG1	R1-02-1457	See sec 7.1.2.2
RP-020683	Response to LS (R1-02-1457, R2-023025) on HS-DPCCH performance	RAN WG2	R2-023281	
RP-020680	LS on Removal of RABs from TS 34.108	RAN WG2	R2-023262	To be discussed in TSG T1
RP-020681	LS on outcome of group release discussions in RAN2	RAN WG2	R2-023263	See sec 7.2.2
RP-020887	LS on Group Release security solution	SA WG3	S3-020688	
RP-020682	LS on HSDPA parameter value ranges	RAN WG2	R2-023269	Noted
RP-020685	REPLY LS on proposed TR for the architectural aspects of early UE handling	RAN WG3	R3-022557	See sec. 8.7.11
RP-020891	LS on Early UE handling	SA WG2	S2-023664	
RP-020684	LS on proposed TR for the architectural aspects of early UE handling	SA WG2	S2-023102	
RP-020835	LS to the relevant External Organizations on the schedule for updating Rec. ITU-R M.1457 to Revision 4	ITU IMT2000 Project Mngr.		Noted

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

It has been agreed by RAN a few meetings ago that CRs related to the same topic but intended for different specifications are presented together, in order to approve/reject them in a whole. WG secretaries shall make sure that this procedure is followed, but since it is not obvious for the secretary to detect when a CR may have a linked CR ~~is~~ in other group, companies ~~presented~~ presenting such linked CRs shall inform the concerned WG secretaries ~~when presenting the CRs in the~~in the WG meeting.

7.1 TSG RAN WG1

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

RP-020832 Report from WG1 chairman to TSG RAN (TSG RAN WG1 Chairman)
Antti Toskala (WG1 chairman) presented this report. The following hints highlight WG1 activity since last TSG RAN:

- One full WG1 meeting since last TSG RAN#17 & One Rel'6 Ad hoc meeting. Also joint Ad Hoc on MIMO channel modelling with 3GPP2 10/02 (in connection with a 3GPP2 meeting)
- Release -99 CRs 0 for FDD, 1 for TDD
- Release 4 CRs total is 1 FDD, 6 TDD CRs
- Release 5 CRs
  - HSDPA Related: 5
  - Others 4 CRs,
  - + 2 technically correct ones as company input (+ revised based on WG2 discussions)
- More than 50% the meeting time used for Rel'6.

Antti clarified that the state of discussion in WG1 concerning MBMS is that it should be possible to provide the service with the existing Rel99 physical channels.
Giovanni Romano (Telecom Italia) commented that the new CQI definition for HSDPA agreed in WG1 has had an impact in WG4 simulations. It was clarified that WG1 changed the definition before the WG4 meeting, and it was noted also that the companies active in one group are also in the other, therefore WG4 was aware of the change. Edgar Fernandes (Motorola) clarified that WG4 is looking at the impact of the new definition in its work.

Motorola commented on the Rel-4 issue for the timing of TX diversity in Soft HO objecting that there is no link to WG2 CRs, it is purely a WG1 issue, and in any case it is more than a simple clarification.

On the HS-DPCCH operation in SHO, Edgar argued that there are different views in WG1 and questioned why only one set of CRs is provided to TSG RAN.

Volker Hoehn (Vodafone) asked about the status of the FFS in HSDPA that TSG RAN required WG1 to study. Antti informed that the group hasn't agreed a solution yet, but Motorola is presenting separate documents.

RP-020864 Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN (TSG RAN WG1)
This document recollects all the RAN documents ~~containing~~ with the CRs agreed in RAN WG1.

7.1.2 Discussions on decisions from WG1

7.1.2.1 Closed Loop TX Diversity Mode 2 with HSDPA

RP-020826 On the Applicability of Release 5 Closed Loop Transmit Diversity Modes (Motorola)
Mark Harrison (Motorola) presented this document. The document provides a number of arguments towards the use of Closed Loop Mode 2 TX diversity together with HSDPA.

RP-020888 Applicability of Tx AA mode 2 in HSDPA channels (Nokia, Vodafone)
Antti Toskala (Nokia) presented this document. The document tries to summarize the status of the discussions on Closed Loop TX diversity Mode 2 in WG1, informing that no agreement had been reached in that group.

It seems to be different understandings in WG1 and WG4 on whether "verification" is mandatory or not. Antti Toskala (Nokia) noted that in WG1 has been assumed mandatory for HSDPA studies, and in his view it should be also the case in WG4. It seems however that the simulation assumptions in WG4 for Closed Loop Tx Diversity in HSDPA have been agreed with verification non mandatory.

It seems to be a discussion between two companies with very limited attention from other parties. Per Beming (Ericsson) noted that it should be enough with one Close Loop diversity mode, it is simply additional complexity. Motorola objected this view, both modes already in Rel99. Tim Moulsley (Philips) questioned if operators were interested in this feature, and noted that independently of its use in HSDPA channels the feature is still part of Rel-5 in the dedicated channel. Giovanni Romano (Telecom Italia) reminded that when listing Rel99 features susceptible of removal, Closed Loop TX Mode 2 was considered as low priority on the operators list.

As a way forward, it is agreed not to include the Closed Loop Mode 2 for HSDPA in Rel-5, but it could be added in further Releases. In any case, the discussion shall take place in WG1, where additional simulations from other companies should be presented. Documents RP-020826 and RP-02088 are noted

RP-020897 CRs (Rel-5) for HSDPA TX diversity (Nokia)
Decision: the CRs are approved

7.1.2.2 HS-DPCCH Performance

RP-020823 Performance of HARQ-ACK (Philips)
Tim Moulsley (Philips) presented this document. Tim clarified that no system simulations have been performed yet. However, qualitatively, it seems clear that there is an impact on throughput if, for example, the UE sends an ACK but the network understands an NACK.
Decision: The document is noted

RP-020816 Suggestion for the guidance to RAN1 regarding HS-DPCCH operation (NEC)
Akihisa Ushirokawa (NEC) presented this document.
Denis Fauconnier (Nortel) noted that these values called "requirements" are not such, they are simply guidelines for the physical layer designer. Denis clarified that the WG2 performed simulations and the protocol still works under the worst case conditions.
Decision: The document is noted

RP-020878 HS-DPCCH power control (Motorola, Samsung)
Howard Benn (Motorola) presented this document. No comments.
Decision: The document is noted

RP-020889 Release 5 HS-DPCCH performance (Ericsson)
Ericsson recommends to delay the inclusion of the technique to a later release, it is more an improvement and hence it is not suitable for Rel-5 (which is closed). Evelyne LeStrat (Nortel) noted that it is unclear that there is actually a problem, and in any case she agreed with Ericsson to postpone the correction to a later Release.
Dr. Lee (Samsung) corrected the paper, not a large number of companies had objected the HS pilot scheme in WG1, but a handful.
Decision: The document is noted

Antti Toskala (Nokia) agreed with the way forward on RP-020889. Given the concerns raised and the lack of agreement in WG1, it is preferable to postpone the introduction of these improvement to a later Release.

Howard Benn (Motorola) asked for another WG1 meeting for discussion of a solution. There are some proposals already available, it might be possible to reach an agreement. Serge Willenegger (Qualcomm) didn't agree that another meeting for discussion would help much, given the conflicting positions of the companies in WG1. He suggested that opening a new WI for enhancements would be necessary, in line with the Study Item already in place for enhancements of uplink of dedicated channels.

Howard noted that simulations may show that there is a real problem and hence the improvement would be required for Release 5. He requested that in this case, only if there is agreement in WG1 that there is a problem, corrections to Release 5 could be incorporated. This was agreed.

As a way forward, it is agreed to close the discussion for Release 5 HSDPA on this issue in WG1. The enhancement would be considered, if any, for further Releases. Antti noted that this closes all the pending issues on HSDPA in WG1.

The documents below (RP-020820, RP-020821, RP-020822 and RP-020850) contain the CRs implementing the technique proposed by Phillips to improve HS-DPCCH performance. Following the agreement reached above, these CRs are not approved.

~~**RP-020820 Correction of HARQ-ACK in 25.212 and 25.214 (Philips and Nokia)**~~
~~Revised in RP-020850.~~
RP-020850 CRs (Rel-5) on HS-DPCCH Operation in SHO (TSG RAN WG1)
It is noted that these CRs were not agreed at WG1, so the source is not WG1 as shown in the CR cover pages.
RP-020821 Introduction of DTX mode in 25.331, 25.423 and 25.424 (Philips)
RP-020822 Correction of HARQ-ACK in 25.212 and 25.214 (without higher layer signalling) (Philips and Nokia)

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

RP-020840 CRs (R'99) to TS 25.224 (TSG RAN WG1)
Decision: The CR is approved

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

The following documents contain CRs agreed by RAN WG1:

Tdoc	Title	Decision
RP-020841	CRs (Rel-4 and Rel-5 Category A) to TS 25.214	Approved 1)
RP-020842	CRs (Rel-4 and Rel-5 Category A) to TS 25.215	Approved 2)
RP-020843	CRs (Rel-4 and Rel-5 Category A) to TS 25.222	Approved
RP-020844	CRs (Rel-4 and Rel-5 Category A) to TS 25.225	Approved

1) Niels Andersen (Motorola) agreed with the Rel-5 CR, but questioned the Rel-4 CR. If the changes are deemed not acceptable for Rel99, assumed closed, they shouldn't be accepted for Rel-4 either, since it is also closed. Antti Toskala noted that WG1 is following the guidance from last TSG RAN, when it was agreed that clarifications should be put to Rel-4. Antti suggested to examine the linked WG2 CRs (RP-020727) together with the Rel-4. Edgar Fernandes (Motorola) objected that WG2 CRs do not help clarify the issue, it seems that there are two alternate WG2 CRs, one proposing

to align with Rel99 and other with Rel-5. After off line discussion, the Rel-5 CR (307 to 25.214) is approved and the Rel-4 CR (306 to 25.214) is rejected.

2) Again there was debate on the need of Rel-4 clarifications. Per Beming (Ericsson) objected changing the Release for the clarifications every TSG, it is not acceptable for developers to look at 3 different releases for the interpretation of Release 99. Howard Benn (WG4 chairman) asked to have a clear decision and allocate some meeting time to discuss the issue of the clarification CRs again. It is agreed that all clarification Rel-4 CRs approved in this meeting are conditional to the conclusion of such discussion.

After off line discussions, Howard agreed to approve the Rel-4 CRs for this meeting, but having now approved the extension containers in this meeting he recommended that Rel-4 is handled the same way as Rel99 from now on. Antti Toskala (Nokia) warned that RRC changes might need to be introduced in the future, and asked not to freeze RRC ASN.1 for the time being. This seemed acceptable to Howard. The principle of applying clarification changes to Rel-5 and later (not Rel-4) is agreed.

RP-020868 Flexible CL TX Diversity Timing (Motorola)
The document is withdrawn

RP-020873 Timing adjustment mode for CL Tx diversity in SHO (NTT DoCoMo)
NTT DoCoMo decided to withdrawn the document before its presentation.

7.1.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG1:

Tdoc	Title	Decision
RP-020845	CR (Rel-5) to TS 25.211	Approved
RP-020846	CRs (Rel-5) to TS 25.212	Approved
RP-020847	CRs (Rel-5) to TS 25.214	Approved 3)
RP-020848	CR (Rel-5) to TS 25.221	Approved
RP-020849	CRs (Rel-5) to TS 25.222	Approved
RP-020854	CR (Rel-5) to TS 25.224	Approved

3) Giovanni Romano (Telecom Italia) noted that it might be impact on WG4 simulations if the CQI is modified. Howard Benn (WG4 chairman) clarified that current simulations are not in line with the new definition, but the simulation assumptions for the next set of simulations do follow the new definition.

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

RP-020851 CRs (Rel-5) on Transport Block Size Signaling (TSG RAN WG1)
No comments.
Decision: The CRs are approved

RP-020852 CRs (Rel-4 and Rel-5) for "Editorial modification to the section numbering" (TSG RAN WG1)
No comments.
Decision: The CRs are approved

7.2 TSG RAN WG2

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

RP-020713 Report from WG2 Chairman to TSG-RAN (TSG RAN WG2 Chairman)
Denis Fauconnier (WG2 chairman) presented this report. Briefly, WG2 activity can be summarized as follows:

- Release 99 corrections
  - Occupied 2 days of last meeting, but number of CRs is down.
  - A number of company CRs are presented directly to TSG RAN.
- Release 4 corrections
  - Increasing
- Release 5
  - Completion of HSDPA
  - Completion of some TEIs
  - RNC reset: Two technically correct CRs in RP-020738 , one to be approved depending on SA3 decision on level of security for group release
- Release 6
  - Progress towards MBMS architecture and better understanding of radio proposals
- Finalisation of firsts version of 25.993 on RAB/RB examples
- Writing of CRs on Early UE handling

Giovanni Romano (Telecom Italia) objected the convergence on the architecture split (slide 27), he argued that some contributions on different directions couldn't be handled.

RP-020714 Supplement (list of all agreed and technically endorsed CRs) to Report from WG2 Chairman to TSG-RAN (TSG RAN WG2)
This document recollects all the RAN documents ~~containing~~ with the CRs agreed in RAN WG1.

Note: Due to an error in the preparatory processing of the documents, all the cover pages of the CRs agreed by RAN WG2 have companies as sources instead of "RAN WG2".

7.2.2 Discussions on decisions from WG2

RP-020814 TR 25.993. Typical examples of RABs and RBs supported by UTRA (Rapporteur (Nortel Networks))
Jussi Numminen (Nokia) suggested that the RRC configuration and PDCP parameters should be included also. This will be considered in the future. The technical content is agreed.
RP-020877 Introduction of changes into 25.993 (TSG RAN WG2)
This document contains some additional RABs to be added to 25.993. The content is agreed. These two documents will be merged, presented and approved as one.
There was some discussion on the structure of the TR, it was suggested to keep it in line with 34.108. But it doesn't seem necessary, since the two documents will diverge; and it doesn't seem convenient either, since 34.108 is oriented to testing and 25.993 is a list of examples.
Decision: The documents are noted

RP-020890 Proposed TR 25.993 v2.0.0 (TSG RAN)
Claude Arzelier (MCC) presented this document
No comments

Decision: The TR is approved

RP-020727 Closed loop transmission diversity discussions. Technically endorsed and Agreed Release '99 and Rel-4/Rel-5 Category A CRs to TS 25.331. (TSG RAN WG2)

These CRs are linked to the discussion on WG1 CRs in RP-020841, Denis Fauconnier proposed to approve the Rel99 and Rel-5 CRs, and depending on the decision in WG1 select the Rel-4 CR. It seems that there is agreement to approve the Rel99 CR.
There was considerable debate on the rationale for approving or not the Rel-4 CR. It was pointed out that it is too late for Rel99 and Rel-4 also, and only essential corrections should be allowed. On the other side, it was argued also that the specification is ambiguous and a clarification is required.
Decision: Finally, it was agreed that CRs (to 25.331) 1773, 1774 and 1776 are approved and CR 1775 is rejected.

7.2.2.1 Group Release discussions

RP-020738 Group Release and security discussions. Technically endorsed Release 5 CRs to TS 25.331. (TSG RAN WG2)

The document contains two proposals for the mass release of RRC connections of all UEs when a RNC is reset (Group Release). One contains a secure procedure and the other a simpler, "unsecure" method. Both have been technically endorsed by WG2 and now TSG RAN must decide.

RP-020885 Handling of RNC reset (Vodafone Group)

This presentation provides a new approach to handle the RNC reset from operators point of view. It was essentially objected that it doesn't cover all the requirements considered by WG2 when developing the other proposals and the technically endorsed CRs.

RP-020887 LS on Group Release security solution (S3-020688 to TSG RAN, RAN2) (SA WG3)

SA WG3 proposes here to select the solution that doesn't include security for the Group Release. This was clarified by Francesco Grilli (Qualcomm), it seems that there are many other possible Denial of Service attack and it would be more convenient to have a common solution for all. Such a solution would be studied further.
Decision: The LS is noted

Alan Law (Vodafone) tried to contact SA WG3 chairman without success, then he suggested to postpone the approval to the next TSG meeting. Denis Fauconnier (WG2 chairman) agreed with this procedure, these are TEI5 CRs and it is acceptable a 3 months delay in the approval.
Decision: The CRs in RP-020738 are not approved, document RP-020885 is noted.

7.2.3 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-020715	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.302	Approved
RP-020716	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.304	Approved
RP-020717	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.306	Approved
RP-020718	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.321	Approved
RP-020719	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.322	Approved
RP-020720	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.324	Approved
RP-020721	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (1)	Approved
RP-020722	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (2)	Approved 4)
RP-020723	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (3)	Approved
RP-020724	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (4)	Approved
RP-020725	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 and 25.921 on the introduction of backward compatible correction mechanism.	Approved 5)
RP-020728	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 34.109.	Approved

4) All CRs are approved except CR1714, CR1715 and CR1715. Ericsson will provide a revision later in this meeting (RP-020892)
5) These CRs introduce the correction mechanism for all messages except the RRC connection complete and the HO complete, which are covered by the hooks mechanism proposed for the early UE handling. If the final solution selected for Early UE is not the hooks, these CRs would need to be modified to include also those messages, or alternatively a new set of CRs will be needed.
Finally, a revision of the25.331 CRs is needed. CRs 1732, 1733, 1734 to TS25.331 are revised(RP-020903), CRs 42, 43, 44 to TS25.921 are approved

The CRs in the following documents (RP-020892, RP-020893 and RP-020874) have been discussed in WG2 email reflector until late the week of the TSG RAN meeting and, after revisions in some cases, have been agreed.

RP-020892 Proposed CRs 1714, 1715, 1716 rev1 to 25.331 on Connection on coding of GSM Classmark 2 and 3 (Ericsson)
No comments
Decision: The CRs are approved

RP-020893 Proposed CR to 25.331 on Handling of hyperframe numbers (Ericsson)
No comments
Decision: The CRs are approved

RP-020874 CR to 25.321 R99, Ciphering of multiple PDUs per TTI (Ericsson, Nortel)
Guillaume Decarreau (Orange) noted that the CR seems to change the ciphering and questioned the impact on the existing UE implementations. Jussi Numminen (Nokia) commented that whatever the impact, the CRs are correcting a serious fault.
Decision: The CRs are approved

RP-020903 CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 on the introduction of backward compatible correction mechanism. (TSG RAN WG2)
Juha Mikola (Nokia) presented these CRs
These CRs are complemented by the Early Hooks CRs in RP-020726. It is clarified that the CRs haven't been reviewed in WG2 reflector, but after a brief examination no objection was found.
Decision: The CRs are approved

7.2.4 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-020857	CRs (Rel-4 and Rel-5 Category A) to TS 25.306	Approved
RP-020858	CRs (Rel-4 and Rel-5 Category A) to TS 25.331. (1)	Approved
RP-020859	CRs (Rel-4 and Rel-5 Category A) to TS 25.331. (2)	Approved

7.2.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG2:

Tdoc	Title	Decision
RP-020732	CRs (Rel-5) to TS 25.302	Approved
RP-020733	CRs (Rel-5) to TS 25.306	Approved
RP-020734	CRs (Rel-5) to TS 25.308	Approved
RP-020735	CRs (Rel-5) to TS 25.321	Approved
RP-020736	CRs (Rel-5) to TS 25.331	Approved
RP-020862	CRs (Rel-5) to TS 25.322	Approved

RP-020896 CR rev 2(Rel-5) to TS 25.331 on HSDPA parameter value ranges. (Nokia)
Revision of RP-020863 and linked to WG3 CRs in RP-020855.
Tim Moulsley (Phillips) noted that some of the values in the CR have not investigated for all radio conditions, in particular the timer T1, and might be revised in the future. In any case, Tim agreed that some values have to be entered at this point.
Decision: After off line discussions the CRs are agreed

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

No discussions.

7.3 TSG RAN WG3

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

RP-020739 Report from WG3 chairman to TSG-RAN (TSG RAN WG3 chairman)
Martin Israelsson (WG3 chairman) presented this report. WG3 activities can be summarized as follows:

- The amount of R99 & Rel4 CRs continue to decrease.
  - 7 R99 + Rel-4 and Rel-5 mirror CRs
  - 22 Rel-4 + Rel-5 mirror CRs (majority TDD)
  - 25 Rel-5 only CRs (majority HSDPA)
  - Complete list of CRs (R99, Rel-4 & Rel-5) in RP-020740
- R99 +mirror CRs occupies about 20% of meeting time.
- RANAP Rel-4 review performed during RAN3#32, resulted in a few CRs. One particular ASN.1 issue was found in the Rel-4 LCS additions.
- Discussions on early UE handling CRs.
- No time to handle Rel-6 during RAN3#33.

Martin clarified that there are on going discussions via email on the subject of Beamforming, and it is the hope of WG3 to have Rel-5 CRs presented in the next TSG RAN.

Antti Toskala (WG1 chairman) questioned how could WG3 reduce the number of meetings for the next year, given the load of WG3 meetings immediately before the RAN meetings. TSG RAN chairman noted that the whole issue of work reduction has to be studied, and Martin informed that it is the intention to have extensive email discussions prior to WG3 meetings. Howard Benn (WG4 chairman) supported Antti's concerns on the work load of WG3 and the future meeting schedule. Woonhee Hwang (Nokia) suggested to have a Release 6 Ad Hoc in WG3 sometime in January, since often the group doesn't have time during the meetings to handle Release 6 WIs.

It is clarified that the MBMS Ad Hoc is a joint WG2 & WG3. Martin noted that WG3 hadn't been informed of this Ad Hoc, but he will made a clear announcement in the email reflector.

On the issue of the Rel-6 WG3 Ad Hoc, a day will be allocated for it immediately after the MBMS Ad Hoc.

RP-020740 Supplement (List of all agreed CRs) to Report from WG3 chairman to TSG-RAN (TSG RAN WG3)
This document lists all the RAN documents ~~containing~~ with the CRs agreed in RAN WG3.

7.3.2 Discussions on decisions from WG3

RP-020825 Handling of Items Beyond Rel5 in RAN3 (3(Hutchison 3G), Nokia)
The document is withdrawn. Martin Israelsson (WG3 chairman) had already sent to WG3 email reflector a proposal for the organization of future meetings.

RP-020879 Proposal for agenda priorisation in WGs (Telecom Italia)
Giovanni Romano (Telecom Italia) presented this document.
Howard Benn (WG4 chairman) clarified that WG4 had never left a document un-treated in a meeting. This paper started the discussion on the general working procedures in the TSGs and WGs. The chairman commented that the 3GPP PCG had requested the TSGs to look at ways of reducing costs and to improve efficiency of the work. One of the proposals has been to reduce the number of TSGs to 3 per year. Hashem Madadi (3) supported this view. Howard noted that the proposal is for 2004, a year that would very likely see the massive deployment of networks which will require a prompt response from the standards community when problems arise.

On the agenda prioritisation proposed by Giovanni, some companies objected scheduling the topics by the amount of contributions, this doesn't seem to best procedure.

Denis Fauconnier (Nortel) warned of the practical impossibility of implementing some of the proposals by Telecom Italia; the basis of the working procedure in 3GPP is searching consensus, and this has very often proved to be time consuming. Giving low priority to late documents is also difficult to implement, if a document related to an ongoing discussion arrives late it is much more convenient to handle it at the right moment than to postpone and come back to the discussion later.

Serge Willenegger (Qualcomm) agreed with Denis on the difficulty of implementing the suggestions from Telecom Italia. He suggested that some guidance from TSG RAN on the scheduling of Work Items would be recommended. Other possibility is the operators providing a priorisation of the WIs.

Hashem Madadi (3) thanked the WG chairmen for their efforts, and suggested to have meetings in convenient locations, not remote. Hashem rejected priorisation of the WIs at RAN level.

Howard summarized that none of the proposals implies changes to the working procedures, and it seems that the general agreement is that they are correct and no change is needed. Delegates and WG chairmen should consider the situation and try to solve the case of un-handled contributions in the best possible manner.

7.3.3 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-020741	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.413	Approved
RP-020742	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.414	Approved
RP-020743	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423	Approved
RP-020744	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423, 25.427 and 25.433 on Correction for the DL DPDCH transmission	Approved

RP-020866 Discussion about the real need of the RANAP R99 CR527 and the RAB Subflows mapping onto the transport channel identifiers of Iur in the Source RNC to Target RNC transparent container. (Nokia)

The document is withdrawn

7.3.4 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-020750	CRs (Rel-4 and Rel-5 Category A) to TS 25.401	Approved
RP-020751	CRs (Rel-4 and Rel-5 Category A) to TS 25.413	Approved 6)
RP-020752	CRs (Rel-4 and Rel-5 Category A) to TS 25.415	Approved
RP-020753	CRs (Rel-4 and Rel-5 Category A) to TS 25.423	Approved
RP-020754	CRs (Rel-4 and Rel-5 Category A) to TS 25.433	Approved
RP-020755	CRs (Rel-4 and Rel-5 Category A) to TS 29.108	Approved
RP-020756	CRs (Rel-4 and Rel-5 Category A) to TS 25.402 and 25.433 on Node B Synchronisation for 3.84Mcps TDD	Approved
RP-020757	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Correction to RX Timing Deviation LCR value range	Approved
RP-020758	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	Approved
RP-020759	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Slot Format for 1.28Mcps TDD	Approved

6) CRs 525 and 526 to 25.413 are revised (RP-020860), the rest are approved

RP-020860 Correction to enable Rel4 extensions in Location Reporting Control procedure (Nokia, Ericsson, Alcatel, Nortel)

The CRs are approved

7.3.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG3:

Tdoc	Title	Decision
RP-020760	CRs (Rel-5 only) to 25.413	Approved
RP-020761	CRs (Rel-5 only) to 25.414	Approved
RP-020762	CRs (Rel-5 only) to 25.423	Approved
RP-020763	CRs (Rel-5 only) to 25.433	Approved
RP-020764	CRs (Rel-5 only) to 25.401 and 25.410 on Corrections to the SNA Access Control Function and Introduction of the Access Control Function	Approved
RP-020765	CRs (Rel-5 only) to 25.423 and 25.433 on Clarification of the usage of HS-DSCH-RNTI	Approved
RP-020766	CRs (Rel-5 only) to 25.423 and 25.433 on Clarification for the inclusion of the DL Power Balancing Updated Indicator IE	Approved
RP-020767	CRs (Rel-5 only) to 25.423 and 25.433 on Addition of the second TDD Channelisation Code of HS-SCCH for the 1.28Mcps TDD option	Approved
RP-020768	CRs (Rel-5 only) to 25.423 and 25.433 on Power Offset Values for HS-DPCCH	Approved
RP-020769	CRs (Rel-5 only) to 25.423 and 25.433 on MAC-hs Window Size	Withdrawn 7)
RP-020770	CRs (Rel-5 only) to 25.425 and 25.435 on Clarification for the initial capacity allocation of HS-DSCH	Approved
RP-020771	CRs (Rel-5 only) to 25.425 and 25.435 on Clarification for the Maximum MAC-d PDU Length	Approved

7) These documents have been revised after email discussion. The revision is provided by Nokia in the document below.

RP-020855 Revised ""MAC-hs Window Size"" CR757r2 to TS25.423 & CR764r2 to TS25.433 (Nokia)

These CRs are linked to WG2 CRs in RP-020896.
Decision: The CRs are approved

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

The following documents contain CRs agreed by RAN WG3:

Tdoc	Title	Decision
RP-020772	CRs (Rel-4 and Rel-5 Category A) to TS 25.414 on Clarification on IP fragmentation over Iu interface (linked to CN4 CRs)	Approved 8)
RP-020773	CRs (Rel-5 only) to 25.423 and 25.433 on Measurement power offset signalling for HSDPA (linked to RAN2 CR R2-023211)	Approved

8) Approved conditionally to the approval of the linked CRs from CN WG4. CN approved the linked CRs, therefore all CRs in RP-020772 are approved.

7.4 TSG RAN WG4

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

RP-020776 Report from WG4 chairman to TSG-RAN (TSG RAN WG4 Chairman)

Howard Benn (WG4 chairman) presented this report. The following points summarize WG4 activity in the last meeting:

- 1 RAN WG4 meeting after the last RAN meeting
- Usual number of delegates (around 80),
- 314 input contributions
- Corrections to the specification (cat F numbers)
  - Release 99 - 12 CRs
  - Release 4 - 31 CRs
  - Release 5 - 17 CRs
- Additions
  - Release 5 – 3 CRs
  - Release 6 – 5 CRs
- There will be one WG meeting before the next plenary.

WG4 couldn't agree on a solution for the Layer 3 filter. Several papers were presented, arguments for the logarithmic filter suggested that it follows better the pathloss level; but contributions were presented also supporting the linear filter on the basis that it allows faster acquisition of the new cells when they appear. WG4 asks for 3 additional months of discussion.
On the BS Classification, and having received the same LS from ETSI MSG as reviewed by TSG RAN before (section 6.1), WG4 presents a set of CRs for approval and informs that the WI is 95% completed.
Howard informed that the HSDPA work unfortunately is not finished yet, although very close to completion.

The level of completion of the WI "Improving Receiver Performance Requirements for the FDD UE" couldn't be agreed in WG4, its scope being re-evaluated. It had been proposed in WG4 to revise the performance requirements for the demodulation of the DCH to take in to account more realistic scenarios, notably with Power Control activated. There wasn't a clear view if a new WI would be required for this or the existing one could be used.

Jussi Numinen (Nokia) commented on Cell Identification (slide 6) that there are long discussions ongoing in WG4 email reflector, questioning the intention and the expected results of simulations on the inter frequency cell identification. Jussi remarked that in this situation, it won't be easy to have significant simulations in the next WG4.

Edgar Fernandes (Motorola) remarked that the new IPDL value of -35 dB (slide 7) shouldn't be used in the future to tighten the requirement for CPICH decodification.

Howard clarified that the Spectrum Report (slide 12) is used to recollect the results of the FS for the viable deployment of UTRA in additional and diverse spectrum arrangements.

Concerning the BS Classification, Nokia and Ericsson shared the view that the CRs should be approved and the Release 6 specifications created. Per Beming (Ericsson) noted that being 95% completed is perfectly justified to consider the WI finished, since in any case and for any finished WI correction CRs can always be expected.

Antti Toskala (WG1 chairman) noted that the work on Beamforming measurements is quite advanced in WG1 and asked what is the progress in WG4. Howard clarified that no documents had been presented in the last meeting.

RP-020777 Supplement (List of all agreed CRs) to Report from WG4 chairman to TSG RAN (TSG RAN WG4)

This document lists RAN documents containing CRs agreed in RAN WG4.

7.4.2 Discussions on decisions from WG4

RP-020876 Inter-FDD Cell identification in Compressed Mode TS 25.133 section 8 (Mitsubishi Electric)

Radi Kar (Mitsubishi) presented this contribution

The document brings to the attention of TSG RAN an issue identified a few months ago in WG4, the requirements for inter frequency cell identification cannot be fulfilled under certain radio conditions or with certain compress mode combinations. Mitsubishi ask TSG RAN to mandate WG4 to produce new simulations on the issue, to agree on a minimum gap density in Rel99 and to produce fading channel test cases for 3kmph, 50kmph and 120 kmph.

Qualcomm and Siemens noted that, although generally support the contribution and reckon there is a problem, don't actually co-source the document.

Evelyne LeStrat (Nortel) raised the concern of network manufacturers on reducing the compress mode combination and possibilities. Jussi Numminen and Per Beming noted that WG4 has been studying this issue for long time, and Release 99 as it is has been stable for a long time, and rejected correcting the requirements.

Edgar Fernandes (Motorola) didn't agree with Ericsson and Nokia and commented that the concerns raised by Mitsubishi are valid, it has been shown that in some of the radio conditions the requirements cannot be met.

As a conclusion, the document is noted, and WG4 is invited to continue to work on the issue and report to the next TSG RAN.

7.4.3 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-020778	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.101	Approved
RP-020779	CRs (R'99, Rel-4 & Rel-5) to TS 25.105 on " Spurious emission requirements for unsynchronized TDD operation"	Approved
RP-020780	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.133	Approved 10)
RP-020781	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.104 & TS 25.141 on "FDD - GSM/PCS co-existence"	Approved
RP-020804	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.105 & TS 25.142 on "Corrections to reference measurement channels"	Approved

10) CRs 507, 508 and 509 are listed in the cover sheet of RP-020780 by mistake, they have not been agreed by WG4 (note that the CRs are not included in the zip or pdf files). Therefore, they are not approved.

7.4.4 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-020782	CRs (Rel-4 and Rel-5 Category A) to TS 25.102	Approved
RP-020783	CRs (Rel-4 and Rel-5 Category A) to TS 25.104	Approved
RP-020784	CRs (Rel-4 and Rel-5 Category A) to TS 25.105	Approved
RP-020785	CRs (Rel-4 and Rel-5 Category A) to TS 25.106	Approved
RP-020786	CRs (Rel-4 and Rel-5 Category A) to TS 25.123	Approved
RP-020787	CRs (Rel-4 and Rel-5 Category A) to TS 25.133	Approved
RP-020788	CRs (Rel-4 and Rel-5 Category A) to TS 25.141	Approved
RP-020789	CRs (Rel-4 and Rel-5 Category A) to TS 25.142	Approved
RP-020790	CRs (Rel-4 and Rel-5 Category A) to TS 25.143	Approved
RP-020791	CRs (Rel-4 and Rel-5 Category A) to TS 25.104 & TS 25.141 on "BS IPDL requirement & test"	Approved
RP-020792	CRs (Rel-4 and Rel-5 Category A) to TS 25.113 & TS 34.124 "New exclusion bands, interpretation of measurement results"	Approved
RP-020794	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 on "Out of band gain"	Approved
RP-020795	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 on "Input intermodulation: Correction of co-location and addition of co-existence"	Approved
RP-020861	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 on "EVM test: change requirement for the use of HSDPA"	Approved 9)

9) This is the revised version of document RP-020793. One of the CRs was missing in that file.

7.4.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG4:

Tdoc	Title	Decision
RP-020796	CRs (Rel-5) to TS 25.104	Approved
RP-020797	CR (Rel-5) to TS 25.123	Approved
RP-020798	CR (Rel-5) to TS 25.133	Approved
RP-020799	CRs (Rel-5) to TS 25.141	Approved
RP-020800	CR (Rel-5) to TR 25.991	Approved
RP-020801	CRs (Rel-5) to TS 25.105 & TS 25.142 on "Correction of ACL power definition"	Approved

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

No documents

7.5 ITU-R Ad Hoc

RP-020834 Status Report of the ITU-R ad hoc (ITU-R Ad Hoc Contact Person)
Giovanni Romano (Telecom Italia) presented this report.
Peter Adams (BT) noted that he attended the WP8F meeting mentioned, and informed that two subgroups are formed, one for evolution further than 2007 and another for spectrum issues. This second group is very active, notably the use of the 3G extension bands has been discussed, with a proposal for satellite service.

The chairman questioned if it was now up to 3GPP to provide the information on UWC-136 to the ITU, as it could be understood from point 4 in the annex. Don Zelmer clarified that UWC-136 still belongs to TR45-3 and T1P1.
Decision: The report is noted

RP-020835 LS to the relevant External Organizations on the schedule for updating Rec. ITU-R M.1457 to Revision 4 (ITU-R Ad Hoc Contact Person)
Decision: The LS is noted

RP-020836 Proposed procedure to enable TSG RAN to provide necessary material to ITU-R WP 8F for incorporation of updated IMT-2000 CDMA DS and IMT-2000 CDMA TDD in Revision 4 of Rec. M.1457 (ITU-R Ad Hoc)
The chairman noted that some of the contributions might be eventually provided to ITU by external organizations, OMA in particular. He also noted it was agreed in the last PCG that the market representatives in 3GPP, UMTS forum and GSA, shall help ITU-R ad hoc in elaborating the information for section 5.X.1 to be provided to ITU. It was further clarified that this could be done by representative of the mentioned groups to the physical meeting as indicated in the document. The chairman will send the timetable proposed in this document to these organizations.
Decision: The procedure is agreed

RP-020837 Note 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 Contact Person)
There was a brief discussion on the time schedule for providing the response to WP8F. The deadline for comments to WP8F is March 19th, which is very close to TSG RAN.
Decision: The document is noted

RP-020838 Update reminder for the OPs on the compliance with ITU-R procedures as it relates to Revision 3 of Recommendation ITU-R M.1457 (ITU-R Ad Hoc)
No comments. Decision: The document is approved

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

RP-020899 Review of the Work Plan (MCC)
Alain Sultan (MCC) gave this presentation
This document is not updated with the conclusions at this TSG RAN meeting. A revised version will be presented to TSG SA. The presentation is noted.

RP-020872 Work Items and Study Items. History and Latest situation (Secretary)
The document is presented for information

8.1.1 Improvement of inter-frequency and inter-system measurements

RP-020698 Status Report for WI "Improvement of inter-frequency and inter-system measurements" (Rapporteur (Nokia))
Antti Toskala (Nokia) presented this document.
The completion date is delayed to June 2003

Decision: The report is noted

8.1.2 FDD Base Station Classification

RP-020697 Status Report for WI "FDD BS Classification" (Rapporteur (RAN WG4))
Antti Toskala (Nokia) presented this document.
Antti proposed to close the WI although some issues are still unsolved. This would help ETSI MSG to produce the European HS. No objections, it is agreed to close the WI.
Decision: The report is noted

RP-020828 Regional requirement on FDD base station classes (ARIB)
Takaharu Nakamura (Fujitsu) presented this document.
The document request to add a small note to the BS specifications declaring that the new Medium and Small BS classes cannot be used in Japan because the current regulations do not incorporate them. The proposed notes are in the CRs in document RP-020895. Nokia accepted to add the notes.
Decision: The proposal is agreed

RP-020802 CRs (Rel-6) for WI "FDD BS Classification" (TSG RAN WG4)
Howard Benn (WG4 chairman) presented these CRs.
Hidetoshi Suzuki (Panasonic) questioned if the new frequency error requirement impacts the cell identification requirement in the UE like discussed in RP-020876. It was clarified that there had been discussions on this issue in WG4, but related to a different scenario, the conditions of the Medium Range scenario allow for a relaxation of the error requirement without impacting the UE cell identification process.
Decision: The CRs are approved

RP-020895 Regional requirement on FDD base station classes (CRs to 25.104 & 25.141) (ARIB)
Decision: The CRs are approved

8.1.3 Terminal power saving features

RP-020692 Status Report for WI "Terminal power saving features " (Rapporteur (Nortel))
Denis Fauconnier (Nortel) introduced this report and noted that no progress has been made.
Decision: The report is noted

8.1.4 Multiple Input Multiple Output antennas (MIMO)

RP-020699 Status Report for WI "Multiple Input Multiple Output antennas (MIMO)" (Rapporteur (Lucent))
Said Tatesh (Lucent) presented this report
It was questioned if any proposal for MIMO antennas has been presented. Said clarified that ~~while~~ until the channel model activity is not finished, no proposal will be presented.
It seems that the timetable has changed, the TR will be presented for approval in March 2003 and the conclusion of the WI is expected for September 2003. TSG RAN agreed those changes.
Decision: The report is noted

RP-020775 Modification of the MIMO WI to include TDD (IPWireless)
Roger Quayle (IPWireless) presented this document.

Said Tatesh noted that the definition of the WI as it is doesn't exclude TDD at all. The list of modified specifications is just informative. Antti Toskala (Nokia) agreed that the WI should cover also TDD, and noted that the WI DS needs to be slightly updated since as it is now it might be derived that it applies to FDD only. It is agreed to modify the Description Sheet.
It was questioned how this would impact the collaboration with 3GPP2. Antti noted that the work on TDD would be carried out by 3GPP companies, the joint work shouldn't be impacted. There were some concerns on the impact on the completion date of the TDD work, but it was noted that in principle the WI was approved to cover all technologies. TSG RAN WG1 will review the Work Item Description and shall provide a revision for the next meeting.
Decision: The document is noted

8.1.6 Improving Receiver Performance Requirements for the FDD UE

RP-020700 Status Report for WI "Improving Receiver Performance Requirements for the FDD UE" (Rapporteur (Intel))

Howard Benn (WG4 chairman) presented this report.
Howard informed that the completion level couldn't be provided because the group is still discussing the change on the scope. It is agreed to move the completion date to September 2003, subject to the discussions in WG4.
Decision: The report is noted

8.2 RAN Improvement Feature

8.2.1 Radio access bearer support enhancement

RP-020691 Status Report for WI "Radio access bearer support enhancement " (Rapporteur (Nokia))

Juha Mikola (Nokia) presented this report
No work identified yet for Rel-6. Denis Fauconnier (WG2 chairman) noted that some work is expected under this basket WI, on ROCH enhancements or IMS support, for example.
Decision: The report is noted

8.2.2 Improvement of RRM across RNS and RNS/BSS

RP-020701 Status Report for WI "Improvement of RRM across RNS and RNS/BSS" (Rapporteur (Nokia))

Woonhee Hwang (Nokia) presented this report.
The change in completion date to June 2003 is agreed.
Decision: The report is noted

8.2.3 Beamforming Enhancements

RP-020702 Status Report for WI "Beamforming enhancements" (Rapporteur (Nokia))

Antti Toskala (Nokia) presented this report.
Evelyne Le Strat (Nortel) questioned how WG3 can commit to a completion date of its part, since the CRs are far from being easy and so far no work has been done.
Howard Benn (WG4 chairman) clarified that this issue will definitely have impact in WG4 requirements, past discussions suggest that at least measurements will be affected. Therefore, long

discussions are to be expected. Howard asked the interested companies to make the TR available in WG4 reflector to trigger discussions.
On the light of the debate, it is agreed to postpone the completion date to June 2003
Decision: The report is noted

8.3 UE Positioning

8.3.1 UE positioning enhancements

No contributions. This is a generic Work Item.

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

RP-020693 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.
Serge Willenegger (Qualcomm) noted that although there was no time in the meeting to handle the topic, the work has started and some contributions had been made available.
The chairman suggested that a change in the completion date might be necessary, Serge and Meik preferred to take that decision in the next RAN if necessary.
Decision: The report is noted

8.4 High Speed Downlink Packet Access (HSDPA)

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

RP-020703 Status Report for WI "HSDPA RF" (Rapporteur (Motorola))
Edgar Fernandes (Motorola) presented this report
Hidetoshi Suzuki (Panasonic) indicated that there were proposals in WG1 to reuse 5 code CQI table for 10-15 codes UEs to reduce WG4 work, but this wasn't agreed. WG4 is now performing simulations with 5 codes and 10-15 codes is future work.
Concerning the HS-SCCH performance, it seems to be agreement to postpone the requirements to Release-6.
The completion date is March 2003
Decision: The report is noted

RP-020803 CRs (Rel-5) for WI "High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing" (TSG RAN WG4)
Decision: The CRs are approved

8.5 Enhancement of broadcast and introduction of Multicast Capabilities in RAN

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

RP-020694 Status Report for WI "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN " (Rapporteur (Nokia))

Antti Toskala (Nokia) presented this report.
Giovanni Romano (Telecom Italia) raised the concern of the operators' community on the progress of the work on MBMS. Antti reminded that a joint ad hoc (WG2/WG3)is scheduled for January(15th - 16th), and noted that if finally no new physical channels are specified, the workload for WG4 on MBMS would be very little and the completion of the WI would be easier.
Decision: the report is noted. Target date is June 2003.

8.6 Technical Small Enhancements and Improvements

Giovanni Romano (Telecom Italia) raised the concern of small enhancements being presented to Release-5, hence being treated by the WGs before the Release-6 Work Item and somehow stealing meeting time from those items. He suggested to move the controversial issues, where there is lack of consensus, to Release-6. As an example he cited the discussions ~~hold~~ held in this TSG RAN meeting. It is recommended, when there is lack of consensus for the introduction of new items, that they are postponed to Release-6. In particular, it is recommended not to have discussions under TEI5 and not to have further enhancements or new proposals in Release-5, only essential corrections.

8.7 Study Items

8.7.1 Radio link performance enhancements

RP-020704 Status Report for SI "Radio link performance enhancements" (Rapporteur (Nokia))

Antti Toskala (Nokia) presented this report
The target date is changed from March 2003 to September 2003.
Decision: The report is noted

8.7.2 Fast Cell Selection (FCS) for HS-DSCH

RP-020705 Status Report for SI "Fast cell selection (FCS) for HS-DSCH" (Rapporteur (Lucent))

Said Tatesh (Lucent) presented this report.
No comments.
Decision: The report is noted

8.7.3 UTRA Wideband Distribution System (WDS)

RP-020706 Status Report for SI "UTRA Wideband Distribution Systems" (Rapporteur (Tekmar))

Howard Benn (WG4 chairman) presented this report.

No comments.
Decision: The report is noted

8.7.4 Viable deployment of UTRA in additional and diverse spectrum arrangements

RP-020689 Status Report for SI "Viable deployment of UTRA in additional and diverse spectrum arrangements" (Rapporteur (Ericsson))

Per Beming (Ericsson) presented this report.
The chairman commented that a new band for the TDSCDMA (2.3-2.4 GHz) had been allocated in China and asked if the study had looked at that. Howard Benn (WG4 chairman) clarified that band is not covered in the report, which addresses only the 2.5 GHz band. Motorola noted that the allocation of that band is still under discussion in ITU
Howard questioned if the 2.3 band would be studied by 3GPP in the future. Volker Hoehn (Vodafone) clarified that this band in allocated to 3G mobile in China only.
Alan Law (Vodafone) questioned why 3GPP has to study allocations on so many bands, it should be an issue to be worked upon by the local regulatory agencies. The chairman reminded that 3GPP has the mandate of the partner SDO to cover all regional requirements.
Roger Quayle (IPWireless) commented that the US FCC has recently liberalized the 2.5-2.6 GHz band, this is a good opportunity for ITU and 3G to have a common frequency allocation for the extension bands around the world.
As a conclusion, the chairman reminded that this study has defined bands to cover and if additional bands need study, new WI or SI will have to be started.

RP-020690 3GPP TR 25.889 v1.2.1 - Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements (Rapporteur (Ericsson))

The TR is presented for information only.
Decision: The TR is noted

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

RP-020707 Status Report for SI "Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD" (Rapporteur (Samsung))

Li Xiaoqiang (Samsung) presented this report.
No comments
Decision: The report is noted

RP-020815 TR 25.888 v. 1.1.0 : "Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD" (Samsung)

The TR is presented for information only.
Decision: The TR is noted

8.7.6 Enhancements to OTDOA Positioning using advanced blanking methods

RP-020696 Status Report for SI "Enhancements to OTDOA Positioning using advanced blanking methods" (Rapporteur (Cambridge Positioning systems))

David Bartlett (CPS) presented this report.

Hidetoshi Suzuki (Panasonic) suggested to remove the UE based blanking (due to complexity) from the TR. Denis Fauconnier (WG2 chairman) noted that this method is in the SI description, alsoWG2 has required WG1 to study both and in any case the study is ongoing. Some papers have shown some difficulties with the UE based method, but this shouldn't stop companies to provide more contributions on it.
Decision: The report is noted

8.7.7 Analysis of OFDM for UTRAN evolution

RP-020708 Status Report for SI "Analysis of OFDM for UTRAN enhancement" (Rapporteur (Nortel))
Evelyne LeStrat (Nortel) presented this report.
No comments
Decision: The report is noted

8.7.8 Uplink Enhancements for Dedicated Transport Channels

RP-020709 Status Report for SI "Uplink Enhancements for Dedicated Transport Channels" (Rapporteur (Nokia))
Antti Toskala (Nokia) presented this report.
No comments
Decision: The report is noted

8.7.9 Analysis of Higher Chip Rate for UTRA TDD evolution

RP-020710 Status Report for SI "Analysis of Higher Chip Rate for UTRA TDD evolution" (Rapporteur (IPWireless))
Roger Quayle (IPWireless) presented this report.
No comments
Decision: The report is noted

8.7.10 Evolution of UTRAN Architecture

RP-020711 Status Report for SI "Evolution of UTRAN Architecture" (Rapporteur)
Woonhee Hwang (Nokia) presented this report
It seems that WG3 couldn't handle some contributions on this SI due to the lack of time.
Decision: The report is noted

8.7.11 Early UE Handling in UTRAN

RP-020839 Revised Status Report for SI "Early Mobile Handling in UTRAN" (Rapporteur (Vodafone))
Alan Law (Vodafone) presented this report. No comments were made
Decision: The report is noted

RP-020684 LS on proposed TR for the architectural aspects of early UE handling (S2-023102, to TSG RAN, GERAN2, RAN2, RAN3) (SA WG2)
It was clarified that the answer from GERAN to SA WG2 was that some time of study was required.
Decision: The LS is noted

RP-020685 REPLY LS on proposed TR for the architectural aspects of early UE handling (R3-022557 to TSG RAN, RAN2, SA2, CN4, GERAN2) (RAN WG3)

Decision: The LS is noted

RP-020891 LS on Early UE handling (S2-023664, to RAN2, RAN3, CN4, GERAN2, TSG RAN, TSG SA (SA WG2)

The chairman noted that the scope of the study undergone in SA WG2 is much broader than what was requested, since now it covers GPRS terminals back to Release 97.
Antti Toskala (Nokia) noted that the GERAN aspects are not the concern of RAN, and thanked SA WG2 for providing this report is such a short time.
Decision: The LS is noted

RP-020817 Handling of Early Mobiles (Hutchison 3G)

Hashem Madadi (3) presented the document.
No comments
Decision: The document is noted

RP-020818 Early Mobile Handling (Orange)

Guillaume Decarreau (Orange) presented the document.
Alan Law (Vodafone) objected the 1st requirement, an operator would be interested in discriminating mobiles based on IMEI for statistic purposes, for example.
Decision: The document is noted

RP-020829 Early UE handling (Nortel Networks)

The document is withdrawn

RP-020856 Early UE handling (Nokia)

Antti Toskala (Nokia) presented this document.
It was clarified that the TRs mentioned are those for handling errors in the network and for faulty UE, their scope was agreed in TSG RAN #14 in Kyoto.
Decision: The document is noted

RP-020867 Handling of Early UEs (Alcatel)

It is clarified that this proposal has not been presented in the SA and CN groups concerned. Francois Courau clarified that the SMS based scheme is using existing techniques so there shouldn't be impact in the core network. Siemens requested that, in any case, the proposal is reviewed by those groups.
There was a concern on security of the SMS messages exchanged, as this method could be easily used to disrupt the UE.
It seems that the terminal would update its bitmap through the SMS received by the SIM toolkit. There were some concerns on how existing SIM could handle this, and on how the SIM could re-write the bitmap value on the flash memory of the terminal.
In any case, the SMS exchange to update the bitmap doesn't have to be studied during this meeting in detail, it is a background system for the "Early Uu indication of a bitmap" solution.
Decision: The document is noted

RP-020880 TR skeleton “Recommended infrastructure measures to overcome early User Equipment (UE) implementation faults (Siemens)

Alexander Vesely (Siemens) presented this document.
No comments

Decision: The TR proposal is noted

RP-020886 Proposal for Early UE handling (Vodafone Group)
Alan Law (Vodafone) presented this document. After presentation, a long discussion followed:

In principle, there are 3 proposals on the table:
- IMEI-SV from the CN
- Bitmap on the Iu and Air Interface
- Bitmap on the Air Interface on an early RRC message (Early Hooks, as in CRs 1758, 1759 & 1760 in RP-020726))

The proposal for the Early Hooks was clarified as follows: If an error is discovered in the standard, or a faulty implementation is discovered, the problem and the solution will be documented on the TRs to be produced. Each hook will refer to one problem, and from some point onwards, terminals will have implemented the solution and will have the bit of the hook "on". No modifications to test or core specifications are involved, the hooks will be linked to problems identified in the TR. Due to capacity restrictions, the hooks cannot be more than a few bits (4 or 8).

It was questioned what was the benefit of the bitmap solution face to the IMEI-SV on the roaming situation. Antti Toskala (Nokia) explained that the rationale is to ensure that all networks apply agreed 3GPP solutions when a problem is identified, in the sense that a terminal roaming to a foreign network will be handled the same way as at home. With the IMEI-SV, different infrastructures could apply different solutions.

It was objected that the IMEI-SV procedure is faster than the bitmap. Denis noted that both solutions are equally fast, when a problem is identified, the solution has to be discussed and agreed in 3GPP. The solution adopted in 3GPP will have to be put into place for all UE in both cases, it is in operators' own interest not to implement proprietary solutions if a common 3GPP solution is available. Alan Law agreed with this view, but noted that if the IMEI-SV is available in the RNC, an action can be adopted immediately when a problem is identified, it is not necessary to wait for the discussion in 3GPP and the bitmap.

The functionality of both core network solutions is similar (IMEI-SV on Iu or bitmap on Iu), the difference is where the information is stored. Both cover the cases when a non faulty UE doesn't have the hook that indicates it has implemented the solution activated, a situation that on the other hand cannot be handled with the Early Hooks solution.

Meik Kottkamp (Siemens) asked to start the discussion on the procedure that will be in place when problems are identified, since it doesn't seem that companies don't agree on the solution.

Niels Andersen (Motorola) commented that, independently of the Early UE discussions, there will be a need to have IMEI in the RAN to comply with the requirements for Trace coming from SA WG5 (See the LS in RP-020869).

Denis Fauconnier (Nortel) noted that the moment in a connection when the IMEI is available to the CN is quite late (after the MM message exchanges), therefore there are a lot of procedures that may go wrong before the RNC has the IMEI (or the bitmap) coming from the Iu. This is the rationale for the having the Early Hooks solution, independently of adopting also any of the core network solutions.

After discussions, the chairman asked the participants for a show of hands in the following questions:

Solution	Favor	Against
Any Core Network solution (either IMEI-SV or bitmap)	Clear majority	0
Early Hooks	19	3
Air Interface RRC bitmap	6	8
Core Network Solution	IMEI-SV: 11 / Bitmap : 14	

As a conclusion of the first round of discussions, it was agreed that a core network solution is a working assumption, the rest of the questions are pending.

Discussions continued off line, and finally companies agreed on the following:

Early Hooks

The following CRs in RP-020726 were approved:

R2-023239 Technically endorsed CR 1758 Rev2 to 25.331 [R'99] on Early UE Specific Behaviour Information in RRC Connection Request / inter RAT info

R2-023240 Technically endorsed CR 1759 Rev2 to 25.331 [Rel-4 shadow] on Early UE Specific Behaviour Information in RRC Connection Request / inter RAT info

R2-023241 Technically endorsed CR 1760 Rev2 to 25.331 [Rel-5 shadow] on Early UE Specific Behaviour Information in RRC Connection Request / inter RAT info

and the rest of the technically correct CRs in RP-020726 (1761, 1762, 1763, 1788, 1789, 1790 to 25.331) are rejected.

The following is an abstract of the procedural part of the approved CRs:

> 8.1.3.3 RRC CONNECTION REQUEST message contents to set
>
> The UE shall not include the IE "UE Specific Behaviour Information 1 idle".
>
> 8.1.16.3 INTER RAT HANDOVER INFO message contents to set
>
> 1> The UE shall not include the IE "UE Specific Behaviour Information 1 interRAT".

The following comments to the CRs were also endorsed by TSG RAN:

- In the CR, the number of bits in RRC CONNECTION REQUEST is [4] bits. The square brackets shall be removed when implementing the CR.
- Specific tests in the highest priority test cases shall be defined, so as to ensure that the UE does not include the UE SBI in any of the uplink messages.
- TSG RAN may in the future modify the RRC specification to specify in which cases the UE shall send the UE SBI (Specific Behaviour Information) IEs. This shall also be tested.

It is clarified that the test has to check that the SBI (any combination) is not included, TSG RAN will send a LS to TSG T to ensure that the test is produced and included in the appropriate specification. It is clarified that the only message were it will be possible to introduce the SBI are "RRC connection request" and "InterRAT HO Info". The test will check that the SBI is not sent, as specified by the CRs

above, and when the first problem is identified and the first bit allocated, 25.331 will be changed to require the inclusion of the bitmap for those UEs implementing the solution agreed in 3GPP.

Per Beming (Ericsson) commented that mandating GCF to include test in their list is not a prerogative of TSG RAN, it is agreed then to remove the reference to GCF from the text (final text show above). Companies are requested to produce the tests for TSG T1 as soon as possible

Core Network Solution

An Iu based solution is agreed, based on IMEI-SV. The final solution, either the actual IMEI-SV or a bitmap based on it, is still to be decided. Antti Toskala (Nokia) asked where the Iu based solution would progress in the future. Per commented that TSG RAN, CN WG1 would be the places, but suggested to have a joint ad hoc for this issue only. Denis Fauconnier (Nortel) questioned the need of this ad hoc, TSG RAN WGs have already produced technically endorsed CRs, there is not much more work left for the RAN groups. In Denis view, the only discussion left is the choice of the solution. Alexander Vesely supported this view.

The chairman proposed to have a TSG RAN only Ad Hoc prior to the WG2 &WG3 meetings in February to agree the solution. This is agreed as a way forward, the chairman will make public precise dates and venue of this Ad Hoc in the reflector. SA and CN groups involved in the group will be informed of the results, but this would be a RAN group to agree on one solution for the Iu. Nokia volunteered to host the Work Shop.

In summary, in what concerns the Core Network solution, an IMEI-SV based IE (information element) is agreed. The content of this IE will be decided upon during the TSG RAN Ad Hoc meeting due to take place last week of January.

The mandate for this Ad Hoc meeting is:

> The TSG RAN Ad Hoc shall select the content of the Information Element to be sent from the Core Network to the RNC. The identified solutions are either the full IMEI-SV or a bit string based on IMEI-SV defining what is correctly or not supported by the UE. After having selected a solution, a LS shall be sent to relevant CN and SA working groups

Concerning the "Early UEs" Study Item, it will be kept open to cover the work on the Iu solution and it is expected to finish by March 2003.

As a result of the discussions, the documents below are simply noted.

RP-020881 Proposed Content for the early UE RAN TR – Problem Statement (Siemens)
RP-020882 Proposed Content for the early UE RAN TR – Requirements (Siemens)
RP-020883 Proposed Content for the early UE RAN TR – Working Procedures (Siemens)
RP-020884 Proposed Content for the early UE RAN TR – IE Semantics and Coding (Siemens)
RP-020745 RAN3 Early UE CR 1 (R99 only) on Transfer of Faults Bitmap over Iu for the handling of early mobiles (TSG RAN WG3)
RP-020746 RAN3 Early UE CR 2 (R99 only) on Transfer of IMEISV over Iu for the Handling of Early Mobiles (TSG RAN WG3)
RP-020747 RAN3 Early UE CR 3 (R99 only) on Inclusion of IMEI-SV based "UE Specific Behaviour Information" in "Source RNC to Target RNC Transparent Container" for handling of early mobiles (TSG RAN WG3)
RP-020748 RAN3 Early UE CR 4 (R99 only) on Inclusion of UE Specific Behaviour Information in RANAP containers for usage by GSM-BSS (TSG RAN WG3)

RP-020749 RAN3 Early UE CR 5 (R99 only) on Inclusion of UE Specific Behaviour Information in RANAP containers as an alternative of RRC transparent container (TSG RAN WG3)

8.8 New Work Items/Study Items

RP-020712 Study Item Description Sheet for Optional RF Low Level Interface in FDD Base Stations (Tekmar, Allgon, KPN, Telefonica, TDF)

Jean Prudent (TDF) presented this proposal
Antti Toskala (Nokia) asked which elements was this interface going to link. Jean suggested WDS (Wide Band Distribution systems) for example, but not only. Evelyne LeStrat (Nortel) remarked the similarities with the WDS SI, and questioned the need of another parallel SI. Said Tatesh (Lucent) clarified that the scope is wider than the WDS SI.

Howard Benn (Motorola) clarified that during the WDS discussions in WG4 it became apparent that an standardized output in the Node B was required, hence this new proposal. He suggested anyway to wait until the completion of the WDS SI before starting a new one.

Juan Antonio Moreno (Telefonica) pointed out that the use of such a low level interface would be to avoid having to connect a system like a WDS to the power amplifier through an attenuator, which doesn't make sense, since the signal is amplified and attenuated without purpose. It would be more straight forward to take the signal directly from the transceiver before amplification.

Giovanni Romano (Telecom Italia) supported the creation of the SI and noted that the discussions on WDS in WG4 are heading to a dead end, the SI for the new standardized interface would aim to having a port to connect any type of equipment, even if 3GPP cannot agree to standardize those equipments.

Howard Benn (Motorola) argued that entities as transceivers and power amplifiers are not defined in 3GPP specifications, simply the antenna port exists. Howard warned of the difficulty of defining such an interface between internal building blocks of the Node B.

Howard clarified that the minimum possible total output power allowed by the NBAP protocol signalling range is 0 dBm. This would allow to have the proposed Low Level Interface with the current antenna port standardized in Release 99 and complying with the 25.104 requirements. However, Juan Antonio requested further study, and this within a new Study Item. Howard proposed instead not to start the study and simply welcome contributions in WG4 on the need of a separate interface. This was agreed as the way forward.
Decision: The SI is noted

RP-020688 Proposed WI: "Improved Access to UE Measurement Data for CRNC to support RRM" (Interdigital)

Jim Miller (Interdigital) presented this proposal
Antti asked to incorporate TDD in the title and also to add to the work schedule of the WI the production of a TR containing the results of the preliminary study. Two TSG periods was felt a short time for the work, Jim agreed to change the proposed completion date to September 2003. Some concerns were raised on the actual need of the enhancement, it seems that SRNS relocation could give the same results. On the light of the discussions, it was agreed to proceed with the proposal as a Study Item and not a Work Item. A revised Description Sheet will be provided.
Decision: The proposal is noted

RP-020901 Revised SI: "Improved Access to UE Measurement Data for CRNC to support RRM" (Interdigital)

Decision: This revised SI Description Sheet is approved.

RP-020831 Overview of subscriber and equipment trace support in UTRAN (Nortel Networks)

The document is withdrawn.

RP-020830 Proposed Work Item on subscriber and equipment trace support in UTRAN (Nortel Networks)

Denis Fauconnier (Nortel) presented this proposal

Alan Law (Vodafone) asked to remove Vodafone from the list of supporting companies, after having received that indication from his management. Alan apologized for the misunderstanding.

Per Beming (Ericsson) noted that the impact on WG2 work is not sufficiently explained. He suggested also that a WI is not really needed yet, he proposed to wait for the joint meeting between WG2, WG3 and SA WG5. Antti Toskala (Nokia) also supported this view.

Under this comments, it was decided not to approve the WI at this point and to submit the Description Sheet for examination at the joint meeting.

Decision: The WI is not approved

RP-020875 Proposed WI: UMTS 850 (Cingular Wireless)

Don Zelmer (Cingular) presented this proposal.

The document presents a proposal to add to the bands covered by UTRA the 850 MHz band, currently used in ITU-2 (North America) for PCS operation. The WI Description Sheet has already been reviewed and endorsed by RAN WG4.

The chairman informed that the WI had been endorsed in WG4 and asked if this was intended to be Release independant, as the other frequency bands. Don clarified that it would be a Release independant WI.

The existing TR for Release independant frequency bands will be reused for this new band.

Decision: The WI is approved

RP-020900 Updated WI Description Sheet for MIMO (Rapporteur (Lucent))

This is a revision of RP-020775. The chairman proposed to submit this revision to WG1. Siemens requested to remove the 3.84 Mcps text, to cover both TDD chip rates. The Description Sheet, with Siemens correction, would be reviewed by WG1 and presented to next TSG RAN for final approval.

Decision: The Description Sheet is noted

9. Technical co-ordination among WGs

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

No discussions. The action points have been reviewed in agenda item 7.

9.2 Other needs

No discussions

10 Outputs to other groups

RP-020904 LS to TSG T, T1 on test of Early Hooks (Nortel Networks)
Denis Fauconnier (Nortel) presented this LS.
It was agreed to Cc this LS to TSG SA, and to clearly state that it applies to Early UE handling.
Decision: The LS was approved

Note: Offline and through the email reflector, it was agreed to forward this LS to GERAN also, since there might be impact on GSM/GPRS terminal testing due to the change to the inter-RAT HO message.

11 Project management

John Meredith (MCC) presented the following documents.They are presented to TSG RAN for information and will be presented for approval to TSG SA.

RP-020806 CR 012 to 21.101: "Correction to list of specs" (MCC)
List of 3G Release 99 specifications
RP-020807 CR 009 to 21.102: "Correction to list of specs" (MCC)
List of 3G Release 4 specifications
RP-020808 CR 002 to 21.103: "Correction to list of specs" (MCC)
List of 3G Release 5 specifications
RP-020811 CR 002 to 41.103: "Correction to list of specs" (MCC)
List of GERAN Release 5 specifications
RP-020870 Status List prior to TSG#18 (MCC)
Full 3GPP specifications list
RP-020871 List of specs / releases (MCC)
Cross list specifications / Releases
Decision: The documents are noted.

The following documents are withdrawn
RP-020809 CR 009 to 01.01: "GSM Release 1999 specifications. (MCC)
RP-020810 CR 008 to 41.102: "GSM Release 4 Specifications" (MCC)
RP-020812 CR 010 to 01.01: "List of R99 work items" (MCC)
RP-020813 CR 013 to 21.101: "List of R99 work items" (MCC)

12 Any other business

RP-020853 Status of Antenna Interface Standards Group (AISG) work (Vodafone Group)
Volker Hoehn (Vodafone) presented this document
Hashem Madadi (3) asked for some of clarification on the AISG group. Volker explained that this is an independent group, not part of ETSI. The chairman clarified that any contribution from AISG to be eventually considered in 3GPP or added to the 3GPP specifications should be presented to 3GPP as a company contribution from a 3GPP member. It was clarified that the technical work has been finished in AISG, but the legal situation is unclear, in particular in relation with ETSI and ETSI IPR policy.

Howard Benn (WG4 chairman) pointed out a couple of concerns on AISG specification from WG4's point of view: the signals used for control go through the antenna port and may cause intermodulation in the transceivers, Howard pointed also that mast amplifiers are considered as a possible device by AISG, while they are not defined in 3GPP.

It is clarified that some time ago 3GPP RAN had considered the creation on a Work Item for the control of antenna tilt, but finally it was not agreed and the work was overtaken by the AISG group.

It was requested that the AISG specification is presented in WG3 and WG4 for examination of the new interface and its impact on the RF conditions at the antenna port.
Decision: The document is noted

13 Closing of the meeting

Francois Courau closed the meeting at 12:30. He thanked the host for the facilities and the social event, and the participants for their attendance.

Annex A: List of participants

Firstname	Surname	Organization	Country	Status	Partner	Email
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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-020674	Proposed agenda meeting #18	Chairman	Approved
RP-020675	Draft Report of the 17th TSG-RAN meeting (Biarritz, France, 3-6 September 2002)	Secretary	Noted
RP-020676	Revised Draft Report of the 17th TSG-RAN meeting (Biarritz, France, 3-6 September 2002)	Secretary	Approved
RP-020677	Approved Report of the 17th TSG-RAN meeting (Biarritz, France, 3-6 September 2002)	Secretary	Noted
RP-020678	Response LS on Additional RAB configurations in 34.108	RAN WG1	Noted
RP-020679	LS on HS-DPCCH performance	RAN WG1	Noted
RP-020680	Liaison Statement on Removal of RABs from TS 34.108	RAN WG2	Noted
RP-020681	LS on outcome of group release discussions in RAN2	RAN WG2	Noted
RP-020682	LS on HSDPA parameter value ranges	RAN WG2	Noted
RP-020683	Response to LS (R1-02-1457, R2-023025) on HS-DPCCH performance	RAN WG2	Noted
RP-020684	LS on proposed TR for the architectural aspects of early UE handling	SA WG2	Noted
RP-020685	REPLY LS on proposed TR for the architectural aspects of early UE handling	RAN WG3	Noted
RP-020686	LS on Document Review of DTR/MTS0082 UMTS Network Integration Testing Methodology and TSS&TP	ETSI MTS	Noted
RP-020687	LS on the completion of the FDD BS Classification Work Item	ETSI MSG	Noted
RP-020688	Proposed WI: "Improved Access to UE Measurement Data for CRNC to support RRM"	Interdigital	Revised in RP-020901
RP-020689	Status Report for Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements	Rapporteur (Ericsson)	Noted
RP-020690	3GPP TR 25.889 v1.2.1 - Feasibility Study considering the viable deployment of UTRA in additional and diverse spectrum arrangements	Rapporteur (Ericsson)	Noted
RP-020691	Status Report for WI "Radio access bearer support enhancement "	Rapporteur (Nokia)	Noted
RP-020692	Status Report for WI "Terminal power saving features "	Rapporteur (Nortel)	Noted
RP-020693	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-020694	Status Report for WI "Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN "	Rapporteur (Nokia)	Noted
RP-020695	Status Report for SI "Early Mobile Handling in UTRAN"	Rapporteur (Vodafone)	Revised in RP-020839
RP-020696	Status Report for SI "Enhancements to OTDOA Positioning using advanced blanking methods"	Rapporteur (CPS)	Noted
RP-020697	Status Report for WI "FDD BS Classification"	Rapporteur (RAN WG4)	Noted
RP-020698	Status Report for WI "Improvement of inter-frequency and inter-system measurements	Rapporteur (Nokia)	Noted
RP-020699	Status Report for WI "Multiple Input Multiple Output antennas (MIMO)"	Rapporteur (Lucent)	Noted
RP-020700	Status Report for WI "Improving Receiver Performance Requirements for the FDD UE"	Rapporteur (Intel)	Noted
RP-020701	Status Report for WI "Improvement of RRM across RNS and RNS/BSS"	Rapporteur (Nokia)	Noted
RP-020702	Status Report for WI "Beamforming enhancements"	Rapporteur (Nokia)	Noted

Tdoc	Title	Source	Decision
RP-020703	Status Report for WI "HSDPA RF"	Rapporteur (Motorola)	Noted
RP-020704	Status Report for SI "Radio link performance enhancements"	Rapporteur (Nokia)	Noted
RP-020705	Status Report for SI "Fast cell selection (FCS) for HS-DSCH"	Rapporteur (Lucent)	Noted
RP-020706	Status Report for SI "UTRA Wideband Distribution Systems"	Rapporteur (Tekmar)	Noted
RP-020707	Status Report for SI "Improvement of inter-frequency and inter-system Measurement for 1.28Mcps TDD"	Rapporteur (Samsung)	Noted
RP-020708	Status Report for SI "Analysis of OFDM for UTRAN enhancement"	Rapporteur (Nortel)	Noted
RP-020709	Status Report for SI "Uplink Enhancements for Dedicated Transport Channels"	Rapporteur (Nokia)	Noted
RP-020710	Status Report for SI "Analysis of Higher Chip Rate for UTRA TDD evolution"	Rapporteur (IPWireless)	Noted
RP-020711	Status Report for SI "Evolution of UTRAN Architecture"	Rapporteur	Noted
RP-020712	Study Item Description Sheet for Optional RF Low Level Interface in FDD Base Stations	Tekmar, Allgon, KPN, Telefonica, TDF	Not approved
RP-020713	Report from WG2 Chairman to TSG-RAN	TSG RAN WG2 Chairman	Noted
RP-020714	Supplement (list of all agreed and technically endorsed CRs) to Report from WG2 Chairman to TSG-RAN	TSG RAN WG2	Noted
RP-020715	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.302	TSG RAN WG2	Approved
RP-020716	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.304	TSG RAN WG2	Approved
RP-020717	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.306	TSG RAN WG2	Approved
RP-020718	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.321	TSG RAN WG2	Approved
RP-020719	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.322	TSG RAN WG2	Approved
RP-020720	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.324	TSG RAN WG2	Approved
RP-020721	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (1)	TSG RAN WG2	Approved
RP-020722	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (2)	TSG RAN WG2	Approved 4)
RP-020723	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (3)	TSG RAN WG2	Approved
RP-020724	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331. (4)	TSG RAN WG2	Approved
RP-020725	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 and 25.921 on the introduction of backward compatible correction mechanism.	TSG RAN WG2	Approved 5)
RP-020726	Early UE discussions. Technically endorsed Release '99 and Rel-4/Rel-5 Category A CRs to TS 25.331.	TSG RAN WG2	Partially approved.
RP-020727	Closed loop transmission diversity discussions. Technically endorsed and Agreed Release '99 and Rel-4/Rel-5 Category A CRs to TS 25.331.	TSG RAN WG2	Partially approved.
RP-020728	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 34.109.	TSG RAN WG2	Approved
RP-020729	CRs (Rel-4 and Rel-5 Category A) to TS 25.306	TSG RAN WG2	Revised in RP-020857
RP-020730	CRs (Rel-4 and Rel-5 Category A) to TS 25.331. (1)	TSG RAN WG2	Revised in RP-020858
RP-020731	CRs (Rel-4 and Rel-5 Category A) to TS 25.331. (2)	TSG RAN WG2	Revised in RP-020859
RP-020732	CRs (Rel-5) to TS 25.302	TSG RAN WG2	Approved
RP-020733	CRs (Rel-5) to TS 25.306	TSG RAN WG2	Approved
RP-020734	CRs (Rel-5) to TS 25.308	TSG RAN WG2	Approved

Tdoc	Title	Source	Decision
RP-020735	CRs (Rel-5) to TS 25.321	TSG RAN WG2	Approved
RP-020736	CRs (Rel-5) to TS 25.331	TSG RAN WG2	Approved
RP-020737	CR (Rel-5) to TS 25.331 on HSDPA parameter value ranges.	TSG RAN WG2	Revised in RP-020863
RP-020738	Group Release and security discussions. Technically endorsed Release 5 CRs to TS 25.331.	TSG RAN WG2	Not approved
RP-020739	Report from WG3 chairman to TSG-RAN	TSG RAN WG3 chairman	Noted
RP-020740	Supplement (List of all agreed CRs) to Report from WG3 chairman to TSG-RAN	TSG RAN WG3	Noted
RP-020741	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.413	TSG RAN WG3	Approved
RP-020742	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.414	TSG RAN WG3	Approved
RP-020743	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423	TSG RAN WG3	Approved
RP-020744	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423, 25.427 and 25.433 on Correction for the DL DPDCH transmission	TSG RAN WG3	Approved
RP-020745	RAN3 Early UE CR 1 (R99 only) on Transfer of Faults Bitmap over Iu for the handling of early mobiles	TSG RAN WG3	Not approved
RP-020746	RAN3 Early UE CR 2 (R99 only) on Transfer of IMEISV over Iu for the Handling of Early Mobiles	TSG RAN WG3	Not approved
RP-020747	RAN3 Early UE CR 3 (R99 only) on Inclusion of IMEI-SV based “UE Specific Behaviour Information” in “Source RNC to Target RNC Transparent Container” for handling of early mobiles	TSG RAN WG3	Not approved
RP-020748	RAN3 Early UE CR 4 (R99 only) on Inclusion of UE Specific Behaviour Information in RANAP containers for usage by GSM-BSS	TSG RAN WG3	Not approved
RP-020749	RAN3 Early UE CR 5 (R99 only) on Inclusion of UE Specific Behaviour Information in RANAP containers as an alternative of RRC transparent container	TSG RAN WG3	Not approved
RP-020750	CRs (Rel-4 and Rel-5 Category A) to TS 25.401	TSG RAN WG3	Approved
RP-020751	CRs (Rel-4 and Rel-5 Category A) to TS 25.413	TSG RAN WG3	Approved 6)
RP-020752	CRs (Rel-4 and Rel-5 Category A) to TS 25.415	TSG RAN WG3	Approved
RP-020753	CRs (Rel-4 and Rel-5 Category A) to TS 25.423	TSG RAN WG3	Approved
RP-020754	CRs (Rel-4 and Rel-5 Category A) to TS 25.433	TSG RAN WG3	Approved
RP-020755	CRs (Rel-4 and Rel-5 Category A) to TS 29.108	TSG RAN WG3	Approved
RP-020756	CRs (Rel-4 and Rel-5 Category A) to TS 25.402 and 25.433 on Node B Synchronisation for 3.84Mcps TDD	TSG RAN WG3	Approved
RP-020757	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Correction to RX Timing Deviation LCR value range	TSG RAN WG3	Approved
RP-020758	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	TSG RAN WG3	Approved
RP-020759	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and 25.433 on Slot Format for 1.28Mcps TDD	TSG RAN WG3	Approved
RP-020760	CRs (Rel-5 only) to 25.413	TSG RAN WG3	Approved
RP-020761	CRs (Rel-5 only) to 25.414	TSG RAN WG3	Approved
RP-020762	CRs (Rel-5 only) to 25.423	TSG RAN WG3	Approved
RP-020763	CRs (Rel-5 only) to 25.433	TSG RAN WG3	Approved
RP-020764	CRs (Rel-5 only) to 25.401 and 25.410 on Corrections to the SNA Access Control Function and Introduction of the Access Control Function	TSG RAN WG3	Approved
RP-020765	CRs (Rel-5 only) to 25.423 and 25.433 on Clarification of the usage of HS-DSCH-RNTI	TSG RAN WG3	Approved

Tdoc	Title	Source	Decision
RP-020766	CRs (Rel-5 only) to 25.423 and 25.433 on Clarification for the inclusion of the DL Power Balancing Updated Indicator IE	TSG RAN WG3	Approved
RP-020767	CRs (Rel-5 only) to 25.423 and 25.433 on Addition of the second TDD Channelisation Code of HS-SCCH for the 1.28Mcps TDD option	TSG RAN WG3	Approved
RP-020768	CRs (Rel-5 only) to 25.423 and 25.433 on Power Offset Values for HS-DPCCH	TSG RAN WG3	Approved
RP-020769	CRs (Rel-5 only) to 25.423 and 25.433 on MAC-hs Window Size	TSG RAN WG3	Withdrawn 7)
RP-020770	CRs (Rel-5 only) to 25.425 and 25.435 on Clarification for the initial capacity allocation of HS-DSCH	TSG RAN WG3	Approved
RP-020771	CRs (Rel-5 only) to 25.425 and 25.435 on Clarification for the Maximum MAC-d PDU Length	TSG RAN WG3	Approved
RP-020772	CRs (Rel-4 and Rel-5 Category A) to TS 25.414 on Clarification on IP fragmentation over Iu interface (linked to CN4 CRs)	TSG RAN WG3	Approved 8)
RP-020773	CRs (Rel-5 only) to 25.423 and 25.433 on Measurement power offset signalling for HSDPA (linked to RAN2 CR R2-023211)	TSG RAN WG3	Approved
RP-020774	LS on Coding of Maximum Offset and Included Angle	TSG GERAN	Noted
RP-020775	Modification of the MIMO WI to include TDD	IPWireless	Noted
RP-020776	Report from WG4 chairman to TSG-RAN	TSG RAN WG4 Chairman	Noted
RP-020777	Supplement (List of all agreed CRs) to Report from WG4 chairman to TSG RAN	TSG RAN WG4	Noted
RP-020778	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.101	TSG RAN WG4	Approved
RP-020779	CRs (R'99, Rel-4 & Rel-5) to TS 25.105 on " Spurious emission requirements for unsynchronized TDD operation"	TSG RAN WG4	Approved
RP-020780	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.133	TSG RAN WG4	Approved 10)
RP-020781	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.104 & TS 25.141 on "FDD - GSM/PCS co-existence"	TSG RAN WG4	Approved
RP-020782	CRs (Rel-4 and Rel-5 Category A) to TS 25.102	TSG RAN WG4	Approved
RP-020783	CRs (Rel-4 and Rel-5 Category A) to TS 25.104	TSG RAN WG4	Approved
RP-020784	CRs (Rel-4 and Rel-5 Category A) to TS 25.105	TSG RAN WG4	Approved
RP-020785	CRs (Rel-4 and Rel-5 Category A) to TS 25.106	TSG RAN WG4	Approved
RP-020786	CRs (Rel-4 and Rel-5 Category A) to TS 25.123	TSG RAN WG4	Approved
RP-020787	CRs (Rel-4 and Rel-5 Category A) to TS 25.133	TSG RAN WG4	Approved
RP-020788	CRs (Rel-4 and Rel-5 Category A) to TS 25.141	TSG RAN WG4	Approved
RP-020789	CRs (Rel-4 and Rel-5 Category A) to TS 25.142	TSG RAN WG4	Approved
RP-020790	CRs (Rel-4 and Rel-5 Category A) to TS 25.143	TSG RAN WG4	Approved
RP-020791	CRs (Rel-4 and Rel-5 Category A) to TS 25.104 & TS 25.141 on "BS IPDL requirement & test"	TSG RAN WG4	Approved
RP-020792	CRs (Rel-4 and Rel-5 Category A) to TS 25.113 & TS 34.124 "New exclusion bands, interpretation of measurement results"	TSG RAN WG4	Approved
RP-020793	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 on "EVM test: change requirement for the use of HSDPA"	TSG RAN WG4	Revised in RP-020861
RP-020794	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 on "Out of band gain"	TSG RAN WG4	Approved
RP-020795	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 on "Input intermodulation: Correction of co-location and addition of co-existence"	TSG RAN WG4	Approved
RP-020796	CRs (Rel-5) to TS 25.104	TSG RAN WG4	Approved
RP-020797	CR (Rel-5) to TS 25.123	TSG RAN WG4	Approved

Tdoc	Title	Source	Decision
RP-020798	CR (Rel-5) to TS 25.133	TSG RAN WG4	Approved
RP-020799	CRs (Rel-5) to TS 25.141	TSG RAN WG4	Approved
RP-020800	CR (Rel-5) to TR 25.991	TSG RAN WG4	Approved
RP-020801	CRs (Rel-5) to TS 25.105 & TS 25.142 on "Correction of ACL power definition"	TSG RAN WG4	Approved
RP-020802	CRs (Rel-6) for WI "FDD BS Classification"	TSG RAN WG4	Approved
RP-020803	CRs (Rel-5) for WI "High Speed Downlink Packet Access (HSDPA) - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing"	TSG RAN WG4	Approved
RP-020804	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.105 & TS 25.142 on "Corrections to reference measurement channels"	TSG RAN WG4	Approved
RP-020805	Inter-FDD Cell identification in Compressed Mode TS 25.133 section 8	Mitsubishi Electric	Revised in RP-020876
RP-020806	CR 012 to 21.101: "Correction to list of specs"	MCC	Noted
RP-020807	CR 009 to 21.102: "Correction to list of specs"	MCC	Noted
RP-020808	CR 002 to 21.103: "Correction to list of specs"	MCC	Noted
RP-020809	CR 009 to 01.01: "GSM Release 1999 specifications.	MCC	Withdrawn
RP-020810	CR 008 to 41.102: "GSM Release 4 Specifications"	MCC	Withdrawn
RP-020811	CR 002 to 41.103: "Correction to list of specs"	MCC	Noted
RP-020812	CR 010 to 01.01: "List of R99 work items"	MCC	Withdrawn
RP-020813	CR 013 to 21.101: "List of R99 work items"	MCC	Withdrawn
RP-020814	TR 25.993. Typical examples of RABs and RBs supported by UTRA	Rapporteur (Nortel Networks)	Noted
RP-020815	TR 25.888 v. 1.1.0 : "Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD"	Samsung	Noted
RP-020816	Suggestion for the guidance to RAN1 regarding HS-DPCCH operation	NEC	Noted
RP-020817	Handling of Early Mobiles	3(Hutchison 3G)	Noted
RP-020818	Early Mobile Handling	Orange	Noted
RP-020819	Correction to enable Rel4 extensions in Location Reporting Control procedure	Nokia, Ericsson, Alcatel, Nortel	Revised in RP-020860
RP-020820	Correction of HARQ-ACK in 25.212 and 25.214	Philips and Nokia	Revised in RP-020850
RP-020821	Introduction of DTX mode in 25.331, 25.423 and 25.424	Philips	Not approved
RP-020822	Correction of HARQ-ACK in 25.212 and 25.214 (without higher layer signalling)	Philips and Nokia	Not approved
RP-020823	Performance of HARQ-ACK	Philips	Noted
RP-020824	"MAC-hs Window Size" CR757r2 to TS25.423 & CR764r2 to TS25.433	Nokia	Revised in RP-020855
RP-020825	Handling of Items Beyond Rel5 in RAN3	3(Hutchison 3G), Nokia	Withdrawn
RP-020826	On the Applicability of Release 5 Closed Loop Transmit Diversity Modes	Motorola	Noted
RP-020827	CRs (Rel-5) to TS 25.322	TSG RAN WG2	Revised in RP-020862
RP-020828	Regional requirement on FDD base station classes	ARIB	Approved
RP-020829	Early UE handling	Nortel Networks	Withdrawn
RP-020830	Proposed Work Item on subscriber and equipment trace support in UTRAN	Nortel Networks	Not approved

Tdoc	Title	Source	Decision
RP-020831	Overview of subscriber and equipment trace support in UTRAN	Nortel Networks	~~Noted~~Withdrawn
RP-020832	Report from WG1 chairman to TSG RAN	TSG RAN WG1 Chairman	Noted
RP-020833	Revision of Q15/11 to explicitly include RAN support	ITU-T SG 11	Noted
RP-020834	Status Report of the ITU-R ad hoc	ITU-R Ad Hoc	Noted
RP-020835	LS to the relevant External Organizations on the schedule for updating Rec. ITU-R M.1457 to Revision 4	ITU-R Ad Hoc	Noted
RP-020836	Proposed procedure to enable TSG RAN to provide necessary material to ITU-R WP 8F for incorporation of updated IMT-2000 CDMA DS and IMT-2000 CDMA TDD in Revision 4 of Rec. M.1457	ITU-R Ad Hoc	Approved
RP-020837	Note 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	Noted
RP-020838	Update reminder for the OPs on the compliance with ITU-R procedures as it relates to Revision 3 of Recommendation ITU-R M.1457	ITU-R Ad Hoc	Approved
RP-020839	Revised Status Report for SI "Early Mobile Handling in UTRAN"	Rapporteur (Vodafone)	Noted
RP-020840	CRs (R'99) to TS 25.224	TSG RAN WG1	Approved
RP-020841	CRs (Rel-4 and Rel-5 Category A) to TS 25.214	TSG RAN WG1	Approved 1)
RP-020842	CRs (Rel-4 and Rel-5 Category A) to TS 25.215	TSG RAN WG1	Approved 2)
RP-020843	CRs (Rel-4 and Rel-5 Category A) to TS 25.222	TSG RAN WG1	Approved
RP-020844	CRs (Rel-4 and Rel-5 Category A) to TS 25.225	TSG RAN WG1	Approved
RP-020845	CR (Rel-5) to TS 25.211	TSG RAN WG1	Approved
RP-020846	CRs (Rel-5) to TS 25.212	TSG RAN WG1	Approved
RP-020847	CRs (Rel-5) to TS 25.214	TSG RAN WG1	Approved 3)
RP-020848	CR (Rel-5) to TS 25.221	TSG RAN WG1	Approved
RP-020849	CRs (Rel-5) to TS 25.222	TSG RAN WG1	Approved
RP-020850	CRs (Rel-5) on HS-DPCCH Operation in SHO	TSG RAN WG1	Not approved
RP-020851	CRs (Rel-5) on Transport Block Size Signaling	TSG RAN WG1	Approved
RP-020852	CRs (Rel-4 and Rel-5) for "Editorial modification to the section numbering"	TSG RAN WG1	Approved
RP-020853	Status of Antenna Interface Standards Group (AISG) work	Vodafone Group	Noted
RP-020854	CR (Rel-5) to TS 25.224	TSG RAN WG1	Approved
RP-020855	Revised "MAC-hs Window Size" CR757r2 to TS25.423 & CR764r2 to TS25.433	Nokia	Approved
RP-020856	Early UE handling	Nokia	Noted
RP-020857	CRs (Rel-4 and Rel-5 Category A) to TS 25.306	TSG RAN WG2	Approved
RP-020858	CRs (Rel-4 and Rel-5 Category A) to TS 25.331. (1)	TSG RAN WG2	Approved
RP-020859	CRs (Rel-4 and Rel-5 Category A) to TS 25.331. (2)	TSG RAN WG2	Approved
RP-020860	Correction to enable Rel4 extensions in Location Reporting Control procedure	Nokia, Ericsson, Alcatel, Nortel	Approved
RP-020861	CRs (Rel-4 and Rel-5 Category A) to TS 25.106 & TS 25.143 on "EVM test: change requirement for the use of HSDPA"	TSG RAN WG4	Approved 9)
RP-020862	CRs (Rel-5) to TS 25.322	TSG RAN WG2	Approved
RP-020863	CR (Rel-5) to TS 25.331 on HSDPA parameter value ranges.	Nokia	Revised in

Tdoc	Title	Source	Decision
			RP-020896
RP-020864	Supplement (List of agreed CRs) to Report from WG1 chairman to TSG-RAN	TSG RAN WG1	Noted
RP-020865	Coding of Maximum Offset and Included Angle	TSG GERAN	Noted
RP-020866	Discussion about the real need of the RANAP R99 CR527 and the RAB Subflows mapping onto the transport channel identifiers of Iur in the Source RNC to Target RNC transparent container.	Nokia	Withdrawn
RP-020867	Handling of Early UEs	Alcatel	Noted
RP-020868	Flexible CL TX Diversity Timing	Motorola	Withdrawn
RP-020869	Reply LS on Subscriber and Equipment Trace Impacts	SA WG5	Noted
RP-020870	Status List prior to TSG#18	MCC	Noted
RP-020871	List of specs / releases	MCC	Noted
RP-020872	Work Items and Study Items. Historic and Latest situation	Secretary	Noted
RP-020873	Timing adjustment mode for CL Tx diversity in SHO	NTT DoCoMo	Withdrawn
RP-020874	CR to 25.321 R99, Ciphering of multiple PDUs per TTI	Ericsson, Nortel	Approved
RP-020875	Proposed WI: UMTS 850	Cingular Wireless	Approved
RP-020876	Inter-FDD Cell identification in Compressed Mode TS 25.133 section 8	Mitsubishi Electric	Noted
RP-020877	Introduction of changes into 25.993	TSG RAN WG2	Approved
RP-020878	HS-DPCCH power control	Motorola, Samsung	Noted
RP-020879	Proposal for agenda priorisation in WGs	Telecom Italia	Noted
RP-020880	TR skeleton “Recommended infrastructure measures to overcome early User Equipment (UE) implementation faults	Siemens	Noted
RP-020881	Proposed Content for the early UE RAN TR – Problem Statement	Siemens	Noted
RP-020882	Proposed Content for the early UE RAN TR – Requirements	Siemens	Noted
RP-020883	Proposed Content for the early UE RAN TR – Working Procedures	Siemens	Noted
RP-020884	Proposed Content for the early UE RAN TR – IE Semantics and Coding	Siemens	Noted
RP-020885	Handling of RNC reset	Vodafone Group	Noted
RP-020886	Proposal for Early UE handling	Vodafone Group	Noted
RP-020887	LS on Group Release security solution	SA WG3	Noted
RP-020888	Applicability of Tx AA mode 2 in HSDPA channels	Nokia	Noted
RP-020889	Release 5 HS-DPCCH performance	Ericsson, Nortel, Panasonic, Qualcomm	Noted
RP-020890	Proposed TR 25.993 v2.0.0	TSG RAN	Approved
RP-020891	LS on Early UE handling	SA WG2	Noted
RP-020892	Proposed CRs 1714, 1715, 1716 rev1 to 25.331 on Connection on coding of GSM Classmark 2 and 3	Ericsson	Approved
RP-020893	Proposed CR to 25.331 on Handling of hyperframe numbers	Ericsson	Approved
RP-020894	LS on LCS architecture descriptions for TS23.002 update	SA WG2	Noted
RP-020895	Regional requirement on FDD base station classes (CRs to 25.104 & 25.141)	ARIB	Approved
RP-020896	CR rev 2(Rel-5) to TS 25.331 on HSDPA parameter value ranges.	Nokia	Approved
RP-020897	CRs (Rel-5) for HSDPA TX diversity	Nokia	Approved
RP-020898	LS on Coding of Maximum Offset and Included Angle	SA WG2	Noted
RP-020899	Review of the Work Plan	MCC	Noted

Tdoc	Title	Source	Decision
RP-020900	Updated WI Description Sheet for MIMO	Rapporteur (Lucent)	Noted
RP-020901	Revised SI: "Improved Access to UE Measurement Data for CRNC to support RRM"	Interdigital	Approved
RP-020902	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 on the introduction of backward compatible correction mechanism.	TSG RAN WG2	Revised in RP-~~020904~~020903
RP-020903	CRs (R'99 and Rel-4/Rel-5 Category A) to TS 25.331 on the introduction of backward compatible correction mechanism.	TSG RAN WG2	Approved
RP-020904	LS to TSG T, T1 on test of Early Hooks	Nortel Networks	Approved

Annex C: List of CRs presented at RAN #18

This table 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
25.211	173	-	Rel-5	F	RP-020845	R1-02-1360	approved	Correction of the number of transport channels in clause 4.1	5.2.0	5.3.0	R1	HSDPA-Phys
25.211	175	-	Rel-5	F	RP-020897	R1-02-0897	approved	HSDPA Tx diversity of closed loop transmit diversity mode 2 use with HS-PDSCH/HS-SCCH	5.2.0	5.3.0	R1	HSDPA-Phys
25.212	163	-	Rel-5	F	RP-020846	R1-02-1337	approved	Correction of CQI index to bit mapping	5.2.0	5.3.0	R1	HSDPA-Phys
25.212	164	-	Rel-5	F	RP-020846	R1-02-1431	approved	Correction of mapping of HARQ-ACK	5.2.0	5.3.0	R1	HSDPA-Phys
25.214	300	1	Rel-5	F	RP-020847	R1-02-1406	approved	Corrections and clarifications to FDD CQI description	5.2.0	5.3.0	R1	HSDPA-Phys
25.214	301	1	Rel-5	F	RP-020847	R1-02-1411	approved	Criterion to determine primary cell for DSCH power control improvement	5.2.0	5.3.0	R1	TEI
25.214	304	2	Rel-5	F	RP-020851	R1-02-1455	approved	Introduction of Transport Block Size signaling procedure reference.	5.2.0	5.3.0	R1	HSDPA-Phys
25.214	307	-	Rel-5	A	RP-020841	R1-02-1385	approved	Clarification of closed loop timing adjustment mode	5.2.0	5.3.0	R1	
25.215	131	1	Rel-5	A	RP-020842	R1-02-1412	approved	Received Total Wide Band Power Measurement Definition	5.1.0	5.2.0	R1	TEI5
25.215	132	-	Rel-4	F	RP-020842	R1-02-1412	approved	Received Total Wide Band Power Measurement Definition	4.5.0	4.6.0	R1	TEI
25.221	105	-	Rel-5	F	RP-020848	R1-02-1361	approved	Correction of the number of transport channels in clause 4.1	5.2.0	5.3.0	R1	HSDPA-Phys
25.221	106	-	Rel-4	D	RP-020852	R1-02-1389	approved	Editorial modification to the section numberings	4.6.0	4.7.0	R1	TEI4
25.221	107	-	Rel-5	D	RP-020852	R1-02-1389	approved	Editorial modification to the section numberings	5.2.0	5.3.0	R1	TEI5
25.222	100	-	Rel-5	A	RP-020843	R1-02-1386	approved	Corrections to TFCI encoding of very short TFCI lengths	5.2.1	5.3.0	R1	TEI
25.222	101	1	Rel-4	F	RP-020843	R1-02-1386	approved	Corrections to TFCI encoding of very short TFCI lengths	4.5.0	4.6.0	R1	LCRTDD-Phys
25.222	102	-	Rel-5	A	RP-020843	R1-02-1386	approved	Corrections to TFCI encoding of very short TFCI lengths	5.2.1	5.3.0	R1	LCRTDD-Phys
25.222	103	-	Rel-5	F	RP-020849	R1-02-1267	approved	Correction of editorial Error	5.2.1	5.3.0	R1	TEI5
25.222	104	-	Rel-5	F	RP-020849	R1-02-1268	approved	Miscellaneous Minor HSDPA Corrections	5.2.1	5.3.0	R1	HSDPA-Phys
25.222	106	-	Rel-4	D	RP-020852	R1-02-1390	approved	Editorial modification to the section numberings	4.5.0	4.6.0	R1	TEI
25.222	107	-	Rel-5	D	RP-020852	R1-02-1390	approved	Editorial modification to the section numberings	5.2.1	5.3.0	R1	TEI
25.222	99	1	Rel-4	F	RP-020843	R1-02-1386	approved	Corrections to TFCI encoding of very short TFCI lengths	4.5.0	4.6.0	R1	TEI
25.223	32	-	Rel-4	D	RP-020852	R1-02-1391	approved	Editorial modification to the section numberings	4.4.0	4.5.0	R1	TEI4
25.223	33	-	Rel-5	D	RP-020852	R1-02-1391	approved	Editorial modification to the section numberings	5.1.0	5.3.0	R1	TEI5
25.224	102	1	Rel-5	F	RP-020854	R1-02-1454	approved	Corrections and clarifications to TDD CQI description	5.2.1	5.3.0	R1	HSDPA-Phys
25.224	103	-	R99	F	RP-020840	R1-02-1387	approved	Editorial modification to the section headings	3.11.0	3.12.0	R1	TEI
25.224	104	-	Rel-4	D	RP-020852	R1-02-1392	approved	Editorial modification to the section numberings	4.6.0	4.7.0	R1	TEI4
25.224	105	-	Rel-5	D	RP-020852	R1-02-1392	approved	Editorial modification to the section numberings	5.2.1	5.3.0	R1	TEI5
25.225	63	-	Rel-4	F	RP-020844	R1-02-1413	approved	Received Total Wide Band Power Measurement Definition	4.5.0	4.6.0	R1	TEI4
25.225	64	-	Rel-5	A	RP-020844	R1-02-1413	approved	Received Total Wide Band Power Measurement Definition	5.2.0	5.3.0	R1	TEI
25.212	161	1	Rel-5	F	RP-020850	R1-02-1422	rejected	Correction of coding of HARQ-ACK	5.2.0		R1	HSDPA-Phys

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.214	295	2	Rel-5	F	RP-020850	R1-02-1422	rejected	Correction of DTX transmission in ACK/NACK field	5.2.0		R1	HSDPA-Phys
25.214	306	1	Rel-4	F	RP-020841	R1-02-1385	rejected	Clarification of closed loop timing adjustment mode	4.5.0		R1	
25.302	132	-	R99	F	RP-020715	R2-023041	approved	Two realisations of an empty transport format	3.14.0	3.15.0	R2	TEI
25.302	133	-	Rel-4	A	RP-020715	R2-023042	approved	Two realisations of an empty transport format	4.6.0	4.7.0	R2	TEI
25.302	134	-	Rel-5	A	RP-020715	R2-023043	approved	Two realisations of an empty transport format	5.2.0	5.3.0	R2	TEI
25.302	135	-	Rel-5	F	RP-020732	R2-023202	approved	Corrections to the channel models for TDD	5.2.0	5.3.0	R2	HSDPA-L23
25.304	102	-	R99	F	RP-020716	R2-023044	approved	Highest HCS priority	3.11.0	3.12.0	R2	TEI
25.304	103	-	Rel-4	A	RP-020716	R2-023045	approved	Highest HCS priority	4.5.0	4.6.0	R2	TEI
25.304	104	-	Rel-5	A	RP-020716	R2-023046	approved	Highest HCS priority	5.1.0	5.2.0	R2	TEI
25.306	049	3	Rel-5	F	RP-020733	R2-023201	approved	HSDPA L2 buffer sizes	5.2.0	5.3.0	R2	HSDPA-L23
25.306	050	-	Rel-4	F	RP-020857	R2-023173	approved	UE capability for RFC3095	4.5.0	4.6.0	R2	TEI4
25.306	051	-	Rel-5	A	RP-020857	R2-023174	approved	UE capability for RFC3095	5.2.0	5.3.0	R2	TEI4
25.306	052	1	R99	F	RP-020717	R2-023245	approved	UE capability for RLC window size	3.6.0	3.7.0	R2	TEI
25.306	053	1	Rel-4	A	RP-020717	R2-023246	approved	UE capability for RLC window size	4.5.0	4.6.0	R2	TEI
25.306	054	1	Rel-5	A	RP-020717	R2-023247	approved	UE capability for RLC window size	5.2.0	5.3.0	R2	TEI
25.306	056	-	Rel-5	F	RP-020733	R2-023203	approved	Correction to Access Stratum release indicator	5.2.0	5.3.0	R2	TEI5
25.306	057	-	Rel-5	F	RP-020733	R2-023205	approved	Dedicated pilot bits for HS-DSCH	5.2.0	5.3.0	R2	TEI5
25.308	003	2	Rel-5	F	RP-020734	R2-023206	approved	Alignment with the physical layer specifications	5.2.0	5.3.0	R2	HSDPA-L23
25.308	004	-	Rel-5	F	RP-020734	R2-022705	approved	Generation of RLC Status Reports to coordinate with MAC-hs reset	5.2.0	5.3.0	R2	HSDPA-L23
25.321	137	-	Rel-5	B	RP-020735	R2-022703	approved	Generation of RLC Status Reports to coordinate with MAC-hs reset	5.2.0	5.3.0	R2	HSDPA-L23
25.321	138	-	Rel-5	F	RP-020735	R2-022706	approved	Re-ordering Mechanism	5.2.0	5.3.0	R2	HSDPA-L23
25.321	139	-	Rel-5	F	RP-020735	R2-022707	approved	Transport Block Size Signalling for 1.28Mcps TDD	5.2.0	5.3.0	R2	HSDPA-L23
25.321	140	1	R99	F	RP-020718	R2-023270	approved	TFC selection for RACH transmissions	3.13.0	3.14.0	R2	TEI
25.321	141	1	Rel-4	A	RP-020718	R2-023271	approved	TFC selection for RACH transmissions	4.6.0	4.7.0	R2	TEI
25.321	142	1	Rel-5	A	RP-020718	R2-023272	approved	TFC selection for RACH transmissions	5.2.0	5.3.0	R2	TEI
25.321	143	-	R99	F	RP-020718	R2-023050	approved	RB id in ciphering	3.13.0	3.14.0	R2	TEI
25.321	144	-	Rel-4	A	RP-020718	R2-023051	approved	RB id in ciphering	4.6.0	4.7.0	R2	TEI
25.321	145	-	Rel-5	A	RP-020718	R2-023052	approved	RB id in ciphering	5.2.0	5.3.0	R2	TEI
25.321	146	-	R99	F	RP-020718	R2-023053	approved	Correction to TFC selection for TDD	3.13.0	3.14.0	R2	TEI
25.321	147	-	Rel-4	A	RP-020718	R2-023054	approved	Correction to TFC selection for TDD	4.6.0	4.7.0	R2	TEI
25.321	148	-	Rel-5	A	RP-020718	R2-023055	approved	Correction to TFC selection for TDD	5.2.0	5.3.0	R2	TEI
25.321	149	-	R99	F	RP-020718	R2-023152	approved	Unblockable TFCs in excess power state	3.13.0	3.14.0	R2	TEI
25.321	150	-	Rel-4	A	RP-020718	R2-023153	approved	Unblockable TFCs in excess power state	4.6.0	4.7.0	R2	TEI
25.321	151	-	Rel-5	A	RP-020718	R2-023154	approved	Unblockable TFCs in excess power state	5.2.0	5.3.0	R2	TEI
25.321	153	-	Rel-5	F	RP-020735	R2-023207	approved	Limitation on number of PDUs per single TTI for 1.28 Mcps TDD	5.2.0	5.3.0	R2	HSDPA-L23
25.321	154	-	Rel-5	F	RP-020735	R2-023208	approved	The Number of mac-d pdu's in a single mac-hs PDU for TDD	5.2.0	5.3.0	R2	HSDPA-L23
25.321	155	-	Rel-5	F	RP-020851	R2-023209	approved	HSDPA Retransmission Block Size	5.2.0	5.3.0	R2	HSDPA-L23

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25.321	156	-	R99	F	RP-020874		approved	[MAC Ciphering - Alignment with SA3] Exact title TBD.	3.13.0	3.14.0	R2	
25.321	157	-	Rel-4	A	RP-020874		approved	[MAC Ciphering - Alignment with SA3] Exact title TBD.	4.6.0	4.7.0	R2	
25.321	158	-	Rel-5	A	RP-020874		approved	[MAC Ciphering - Alignment with SA3] Exact title TBD.	5.2.0	5.3.0	R2	
25.322	210	-	R99	F	RP-020719	R2-023056	approved	RB id in ciphering	3.12.0	3.13.0	R2	TEI
25.322	211	-	Rel-4	A	RP-020719	R2-023057	approved	RB id in ciphering	4.6.0	4.7.0	R2	TEI
25.322	212	-	Rel-5	A	RP-020719	R2-023057	approved	RB id in ciphering	5.2.0	5.3.0	R2	TEI
25.322	213	-	Rel-5	B	RP-020862	R2-022704	approved	Generation of RLC Status Reports to coordinate with MAC-hs reset	5.2.0	5.3.0	R2	HSDPA-L23
25.324	011	1	R99	F	RP-020720	R2-023221	approved	Bit order in BMC messages	3.5.0	3.6.0	R2	
25.324	012	1	Rel-4	A	RP-020720	R2-023222	approved	Bit order in BMC messages	4.1.0	4.2.0	R2	
25.324	013	1	Rel-5	A	RP-020720	R2-023223	approved	Bit order in BMC messages	5.1.0	5.2.0	R2	
25.331	1685	-	R99	F	RP-020721	R2-022657	approved	Corrections to IEs "Ellipsoid point with Altitude and uncertainty Ellipsoid" and "Ellipsoid point with uncertainty Ellipse"	3.12.0	3.13.0	R2	TEI
25.331	1686	-	Rel-4	A	RP-020721	R2-022658	approved	Corrections to IEs "Ellipsoid point with Altitude and uncertainty Ellipsoid" and "Ellipsoid point with uncertainty Ellipse"	4.7.0	4.8.0	R2	TEI
25.331	1687	-	Rel-5	A	RP-020721	R2-022659	approved	Corrections to IEs "Ellipsoid point with Altitude and uncertainty Ellipsoid" and "Ellipsoid point with uncertainty Ellipse"	5.2.0	5.3.0	R2	TEI
25.331	1688	2	R99	F	RP-020721	R2-022712	approved	Handling of Ciphering and integrity protection activation times	3.12.0	3.13.0	R2	TEI
25.331	1689	1	Rel-4	A	RP-020721	R2-022713	approved	Handling of Ciphering and integrity protection activation times	4.7.0	4.8.0	R2	TEI
25.331	1690	1	Rel-5	A	RP-020721	R2-022714	approved	Handling of Ciphering and integrity protection activation times	5.2.0	5.3.0	R2	TEI
25.331	1691	1	R99	F	RP-020721	R2-022694	approved	Handling of measurements at state transitions to/from DCH state.	3.12.0	3.13.0	R2	TEI
25.331	1692	1	Rel-4	A	RP-020721	R2-022695	approved	Handling of measurements at state transitions to/from DCH state.	4.7.0	4.8.0	R2	TEI
25.331	1693	-	Rel-5	A	RP-020721	R2-022696	approved	Handling of measurements at state transitions to/from DCH state.	5.2.0	5.3.0	R2	TEI
25.331	1694	3	R99	F	RP-020721	R2-023059	approved	Measurement related corrections	3.12.0	3.13.0	R2	TEI
25.331	1695	3	Rel-4	A	RP-020721	R2-023060	approved	Measurement related corrections	4.7.0	4.8.0	R2	TEI
25.331	1696	2	Rel-5	A	RP-020721	R2-023061	approved	Measurement related corrections	5.2.0	5.3.0	R2	TEI
25.331	1697	-	R99	F	RP-020721	R2-022680	approved	ASN.1 of the SRNS relocation info	3.12.0	3.13.0	R2	TEI
25.331	1698	-	Rel-4	A	RP-020721	R2-022681	approved	ASN.1 of the SRNS relocation info	4.7.0	4.8.0	R2	TEI
25.331	1699	-	Rel-5	A	RP-020721	R2-022682	approved	ASN.1 of the SRNS relocation info	5.2.0	5.3.0	R2	TEI
25.331	1700	-	Rel-4	F	RP-020858	R2-022686	approved	Correction of ASN1 IE "InterFreqCellInfoList-r4"	4.7.0	4.8.0	R2	TEI4
25.331	1701	-	Rel-5	A	RP-020858	R2-022687	approved	Correction of ASN1 IE "InterFreqCellInfoList-r4"	5.2.0	5.3.0	R2	TEI4
25.331	1702	-	Rel-4	F	RP-020858	R2-022688	approved	Correction of Special Burst Scheduling for TDD	4.7.0	4.8.0	R2	TEI4
25.331	1703	-	Rel-5	A	RP-020858	R2-022689	approved	Correction of Special Burst Scheduling for TDD	5.2.0	5.3.0	R2	TEI4

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25.331	1704	-	Rel-4	F	RP-020858	R2-022690	approved	Correction of measurement reporting event 6f for 1.28 Mcps TDD	4.7.0	4.8.0	R2	TEI4
25.331	1705	-	Rel-5	A	RP-020858	R2-022691	approved	Correction of measurement reporting event 6f for 1.28 Mcps TDD	5.2.0	5.3.0	R2	TEI4
25.331	1707	-	Rel-5	F	RP-020736	R2-022709	approved	RRC container for RFC3095 context	5.2.0	5.3.0	R2	RANimp-RABSE5
25.331	1708	1	R99	F	RP-020721	R2-023274	approved	Corrections to PRACH selection	3.12.0	3.13.0	R2	TEI
25.331	1709	1	Rel-4	A	RP-020721	R2-023275	approved	Corrections to PRACH selection	4.7.0	4.8.0	R2	TEI
25.331	1710	1	Rel-5	A	RP-020721	R2-023276	approved	Corrections to PRACH selection	5.2.0	5.3.0	R2	TEI
25.331	1711	-	R99	F	RP-020722	R2-022657	approved	TDD Downlink Path Loss for interfrequency measurement	3.12.0	3.13.0	R2	TEI
25.331	1712	-	Rel-4	A	RP-020722	R2-022658	approved	TDD Downlink Path Loss for interfrequency measurement	4.7.0	4.8.0	R2	TEI
25.331	1713	-	Rel-5	A	RP-020722	R2-022659	approved	TDD Downlink Path Loss for interfrequency measurement	5.2.0	5.3.0	R2	TEI
25.331	1714	1	R99	F	RP-020892		approved	Correction on coding of GSM Classmark 2 and 3	3.12.0	3.13.0	R2	
25.331	1715	1	Rel-4	A	RP-020892		approved	Correction on coding of GSM Classmark 2 and 3	4.7.0	4.8.0	R2	
25.331	1716	1	Rel-5	A	RP-020892		approved	Correction on coding of GSM Classmark 2 and 3	5.2.0	5.3.0	R2	
25.331	1717	-	R99	F	RP-020722	R2-022694	approved	Correction on Frame Allocation Calculation	3.12.0	3.13.0	R2	TEI
25.331	1718	-	Rel-4	A	RP-020722	R2-022695	approved	Correction on Frame Allocation Calculation	4.7.0	4.8.0	R2	TEI
25.331	1719	-	Rel-5	A	RP-020722	R2-022696	approved	Correction on Frame Allocation Calculation	5.2.0	5.3.0	R2	TEI
25.331	1720	-	R99	F	RP-020722	R2-023059	approved	Inter-frequency measurements	3.12.0	3.13.0	R2	TEI
25.331	1721	-	Rel-4	A	RP-020722	R2-023060	approved	Inter-frequency measurements	4.7.0	4.8.0	R2	TEI
25.331	1722	-	Rel-5	A	RP-020722	R2-023061	approved	Inter-frequency measurements	5.2.0	5.3.0	R2	TEI
25.331	1723	-	R99	F	RP-020722	R2-022680	approved	Maximum Allowed UL TX Power	3.12.0	3.13.0	R2	TEI
25.331	1724	-	Rel-4	A	RP-020722	R2-022681	approved	Maximum Allowed UL TX Power	4.7.0	4.8.0	R2	TEI
25.331	1725	-	Rel-5	A	RP-020722	R2-022682	approved	Maximum Allowed UL TX Power	5.2.0	5.3.0	R2	TEI
25.331	1726	-	R99	F	RP-020722	R2-023274	approved	START values for the initialisation of SRB counters and UTRAN incorrect actions	3.12.0	3.13.0	R2	TEI
25.331	1727	-	Rel-4	A	RP-020722	R2-023275	approved	START values for the initialisation of SRB counters and UTRAN incorrect actions	4.7.0	4.8.0	R2	TEI
25.331	1728	-	Rel-5	A	RP-020722	R2-023276	approved	START values for the initialisation of SRB counters and UTRAN incorrect actions	5.2.0	5.3.0	R2	TEI
25.331	1729	-	R99	F	RP-020723	R2-023081	approved	Correction to the RRC transaction table management	3.12.0	3.13.0	R2	TEI
25.331	1730	-	Rel-4	A	RP-020723	R2-023082	approved	Correction to the RRC transaction table management	4.7.0	4.8.0	R2	TEI
25.331	1731	-	Rel-5	A	RP-020723	R2-023083	approved	Correction to the RRC transaction table management	5.2.0	5.3.0	R2	TEI
25.331	1732	1	R99	F	RP-020725	R2-023284	~~approved~~revised	Introduction of backwards compatible correction mechanism	3.12.0	3.13.0	R2	TEI
25.331	1733	1	Rel-4	A	RP-020725	R2-023285	~~approved~~revised	Introduction of backwards compatible correction mechanism	4.7.0	4.8.0	R2	TEI
25.331	1734	1	Rel-5	A	RP-020725	R2-023286	~~approved~~revised	Introduction of backwards compatible correction mechanism	5.2.0	5.3.0	R2	TEI
25.331	1732	2	R99	F	RP-020902		revised	Introduction of backwards compatible correction mechanism	3.12.0	3.13.0	R2	TEI
25.331	1733	2	Rel-4	A	RP-020902		revised	Introduction of backwards compatible correction	4.7.0	4.8.0	R2	TEI

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								mechanism				
25.331	1734	2	Rel-5	A	RP-020902		revised	Introduction of backwards compatible correction mechanism	5.2.0	5.3.0	R2	TEI
25.331	1732	3	R99	F	RP-020903		approved	Introduction of backwards compatible correction mechanism	3.12.0	3.13.0	R2	TEI
25.331	1733	3	Rel-4	A	RP-020903		approved	Introduction of backwards compatible correction mechanism	4.7.0	4.8.0	R2	TEI
25.331	1734	3	Rel-5	A	RP-020903		approved	Introduction of backwards compatible correction mechanism	5.2.0	5.3.0	R2	TEI
25.331	1738	-	R99	F	RP-020723	R2-023097	approved	Use of DCH Quality Target with Blind Transport Format Detection	3.12.0	3.13.0	R2	TEI
25.331	1739	-	Rel-4	A	RP-020723	R2-023098	approved	Use of DCH Quality Target with Blind Transport Format Detection	4.7.0	4.8.0	R2	TEI
25.331	1740	-	R99	F	RP-020723	R2-023100	approved	Correction to storing current TFC subset in variable TFC_SUBSET for TDD	3.12.0	3.13.0	R2	TEI
25.331	1741	-	Rel-4	A	RP-020723	R2-023101	approved	Correction to storing current TFC subset in variable TFC_SUBSET for TDD	4.7.0	4.8.0	R2	TEI
25.331	1742	-	Rel-5	A	RP-020723	R2-023102	approved	Correction to storing current TFC subset in variable TFC_SUBSET for TDD	5.2.0	5.3.0	R2	TEI
25.331	1743	-	R99	F	RP-020723	R2-023103	approved	Security at inter-RAT handover	3.12.0	3.13.0	R2	TEI
25.331	1744	-	Rel-4	A	RP-020723	R2-023104	approved	Security at inter-RAT handover	4.7.0	4.8.0	R2	TEI
25.331	1745	-	Rel-5	A	RP-020723	R2-023105	approved	Security at inter-RAT handover	5.2.0	5.3.0	R2	TEI
25.331	1746	-	R99	F	RP-020723	R2-023106	approved	Integrity protection activations times	3.12.0	3.13.0	R2	TEI
25.331	1747	-	Rel-4	A	RP-020723	R2-023107	approved	Integrity protection activations times	4.7.0	4.8.0	R2	TEI
25.331	1748	-	Rel-5	A	RP-020723	R2-023108	approved	Integrity protection activations times	5.2.0	5.3.0	R2	TEI
25.331	1749	-	R99	F	RP-020723	R2-023109	approved	Additional measurements	3.12.0	3.13.0	R2	TEI
25.331	1750	-	Rel-4	A	RP-020723	R2-023110	approved	Additional measurements	4.7.0	4.8.0	R2	TEI
25.331	1751	-	Rel-5	A	RP-020723	R2-023111	approved	Additional measurements	5.2.0	5.3.0	R2	TEI
25.331	1752	-	R99	F	RP-020724	R2-023112	approved	DPCH compressed mode info in Downlink information common for all RLs	3.12.0	3.13.0	R2	TEI
25.331	1753	-	Rel-4	A	RP-020724	R2-023113	approved	DPCH compressed mode info in Downlink information common for all RLs	4.7.0	4.8.0	R2	TEI
25.331	1754	-	Rel-5	A	RP-020724	R2-023114	approved	DPCH compressed mode info in Downlink information common for all RLs	5.2.0	5.3.0	R2	TEI
25.331	1755	1	R99	F	RP-020724	R2-023255	approved	Handling of RB mapping	3.12.0	3.13.0	R2	TEI
25.331	1756	1	Rel-4	A	RP-020724	R2-023256	approved	Handling of RB mapping	4.7.0	4.8.0	R2	TEI
25.331	1757	1	Rel-5	A	RP-020724	R2-023257	approved	Handling of RB mapping	5.2.0	5.3.0	R2	TEI
25.331	1758	2	R99	F	RP-020726	R2-023239	approved	Early UE Specific Behaviour Information in RRC Connection Request / inter RAT info	3.12.0	3.13.0	R2	TEI
25.331	1759	2	Rel-4	A	RP-020726	R2-023240	approved	Early UE Specific Behaviour Information in RRC Connection Request / inter RAT info	4.7.0	4.8.0	R2	TEI
25.331	1760	2	Rel-5	A	RP-020726	R2-023241	approved	Early UE Specific Behaviour Information in RRC	5.2.0	5.3.0	R2	TEI

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								Connection Request / inter RAT info				
25.331	1761	1	R99	F	RP-020726	R2-023242	~~approved~~rejected	Early UE Specific Behaviour Information in Handover Complete / Setup Complete	3.12.0	3.13.0	R2	TEI
25.331	1762	1	Rel-4	A	RP-020726	R2-023243	~~approved~~rejected	Early UE Specific Behaviour Information in Handover Complete / Setup Complete	4.7.0	4.8.0	R2	TEI
25.331	1763	1	Rel-5	A	RP-020726	R2-023244	~~approved~~rejected	Early UE Specific Behaviour Information in Handover Complete / Setup Complete	5.2.0	5.3.0	R2	TEI
25.331	1764	-	R99	F	RP-020724	R2-023129	approved	RLC window size in default configurations	3.12.0	3.13.0	R2	TEI
25.331	1765	-	Rel-4	A	RP-020724	R2-023130	approved	RLC window size in default configurations	4.7.0	4.8.0	R2	TEI
25.331	1766	-	Rel-5	A	RP-020724	R2-023131	approved	RLC window size in default configurations	5.2.0	5.3.0	R2	TEI
25.331	1767	-	R99	F	RP-020724	R2-023132	approved	Corrections to Activation time	3.12.0	3.13.0	R2	TEI
25.331	1768	-	Rel-4	A	RP-020724	R2-023133	approved	Corrections to Activation time	4.7.0	4.8.0	R2	TEI
25.331	1769	-	Rel-5	A	RP-020724	R2-023134	approved	Corrections to Activation time	5.2.0	5.3.0	R2	TEI
25.331	1770	-	R99	F	RP-020724	R2-023135	approved	Numbering of "ASC Setting" IEs included in "PRACH partitioning" IE	3.12.0	3.13.0	R2	TEI
25.331	1771	-	Rel-4	A	RP-020724	R2-023136	approved	Numbering of "ASC Setting" IEs included in "PRACH partitioning" IE	4.7.0	4.8.0	R2	TEI
25.331	1772	-	Rel-5	A	RP-020724	R2-023137	approved	Numbering of "ASC Setting" IEs included in "PRACH partitioning" IE	5.2.0	5.3.0	R2	TEI
25.331	1773	-	R99	F	RP-020727	R2-023138	approved	Signalling of the timing adjustment mode for closed loop Tx diversity	3.12.0	3.13.0	R2	TEI
25.331	1774	-	Rel-4	A	RP-020727	R2-023139	approved	Signalling of the timing adjustment mode for closed loop Tx diversity	4.7.0	4.8.0	R2	TEI
25.331	1776	-	Rel-5	A	RP-020727	R2-023141	approved	Closed loop Tx diversity with different timing adjustment modes in the same active set	5.2.0	5.3.0	R2	TEI
25.331	1777	3	R99	F	RP-020724	R2-023280	approved	Correction on support for compressed mode	3.12.0	3.13.0	R2	TEI
25.331	1778	2	Rel-4	A	RP-020724	R2-023251	approved	Correction on support for compressed mode	4.7.0	4.8.0	R2	TEI
25.331	1779	2	Rel-5	A	RP-020724	R2-023252	approved	Correction on support for compressed mode	5.2.0	5.3.0	R2	TEI
25.331	1780	-	Rel-4	F	RP-020858	R2-023168	approved	Ciphering during SRNS relocation without reuse of COUNT-C	4.7.0	4.8.0	R2	TEI4
25.331	1781	-	Rel-5	A	RP-020858	R2-023169	approved	Ciphering during SRNS relocation without reuse of COUNT-C	5.2.0	5.3.0	R2	TEI4
25.331	1782	-	Rel-4	F	RP-020858	R2-023178	approved	Correction to IE "Intra Domain NAS Node Selector"	4.7.0	4.8.0	R2	TEI4
25.331	1783	-	Rel-5	A	RP-020858	R2-023179	approved	Correction to IE "Intra Domain NAS Node Selector"	5.2.0	5.3.0	R2	TEI4
25.331	1784	-	Rel-4	F	RP-020858	R2-023180	approved	Correction to PRACH selection	4.7.0	4.8.0	R2	TEI4
25.331	1785	-	Rel-5	A	RP-020858	R2-023181	approved	Correction to PRACH selection	5.2.0	5.3.0	R2	TEI4
25.331	1786	-	Rel-4	F	RP-020859	R2-023182	approved	Correction to reporting event 6f for FDD	4.7.0	4.8.0	R2	TEI4
25.331	1787	-	Rel-5	A	RP-020859	R2-023183	approved	Correction to reporting event 6f for FDD	5.2.0	5.3.0	R2	TEI4
25.331	1788	1	R99	F	RP-020726	R2-023236	~~approved~~rejected	Compact IMEI-SV transfer across Uu and within RRC containers	3.12.0	3.13.0	R2	TEI
25.331	1789	1	Rel-4	A	RP-020726	R2-023237	~~approved~~rejected	Compact IMEI-SV transfer across Uu and within RRC containers	4.7.0	4.8.0	R2	TEI

Spec	CR	R	Phase	Cat	TSG RAN document	WG document	TSG RAN status	Subject	CR to version	Resulting version	WG	Workitem
25.331	1790	1	Rel-5	A	RP-020726	R2-023238	~~approved~~rejected	Compact IMEI-SV transfer across Uu and within RRC containers	5.2.0	5.3.0	R2	TEI
25.331	1791	-	Rel-5	F	RP-020736	R2-023204	approved	Correction to IE "Access stratum release indicator"	5.2.0	5.3.0	R2	TEI5
25.331	1792	-	Rel-5	F	RP-020736	R2-023210	approved	RLC capability for HSDPA	5.2.0	5.3.0	R2	HSDPA-L23
25.331	1793	2	Rel-5	F	RP-020896	RP-020896	approved	HSDPA parameter value ranges	5.2.0	5.3.0	R2	HSDPA-L23
25.331	1794	-	Rel-5	F	RP-020736	R2-023213	approved	Dedicated pilot bits for HS-DSCH	5.2.0	5.3.0	R2	TEI5
25.331	1795	-	Rel-5	C	RP-020736	R2-023224	approved	Expansion of CPICH RSCP range	5.2.0	5.3.0	R2	TEI5
25.331	1796	-	Rel-5	C	RP-020736	R2-023225	approved	L3 Retransmission of event 1b	5.2.0	5.3.0	R2	TEI5
25.331	1797	-	Rel-5	F	RP-020736	R2-023226	approved	DPC mode change in ACTIVE SET UPDATE message	5.2.0	5.3.0	R2	TEI5
25.331	1798	-	Rel-5	F	RP-020736	R2-023227	approved	Correction to handling of IE 'Downlink information for each RL'	5.2.0	5.3.0	R2	TEI5
25.331	1801	-	Rel-4	F	RP-020859	R2-023234	approved	ASN.1 corrections	4.7.0	4.8.0	R2	TEI4
25.331	1802	-	Rel-5	A	RP-020859	R2-023235	approved	ASN.1 corrections	5.2.0	5.3.0	R2	TEI4
25.331	1803	-	Rel-5	A	RP-020723	R2-023099	approved	Use of DCH Quality Target with Blind Transport Format Detection	5.2.0	5.3.0	R2	TEI
25.331	1804	-	Rel-4	F	RP-020859	R2-023264	approved	Asymmetric ROHC Configuration	4.7.0	4.8.0	R2	TEI4
25.331	1805	-	Rel-5	A	RP-020859	R2-023265	approved	Asymmetric ROHC Configuration	5.2.0	5.3.0	R2	TEI4
25.331	1806	-	Rel-4	F	RP-020859	R2-023266	approved	Reference Cell for GSM OTD Measurement	4.7.0	4.8.0	R2	TEI4
25.331	1807	-	Rel-5	A	RP-020859	R2-023267	approved	Reference Cell for GSM OTD Measurement	5.2.0	5.3.0	R2	TEI4
25.331	1808	-	R99	F	RP-020893		approved	[Integrity protection] Exact title TBD.	3.12.0	3.13.0	R2	
25.331	1809	-	Rel-4	A	RP-020893		approved	[Integrity protection] Exact title TBD.	4.7.0	4.8.0	R2	
25.331	1810	-	Rel-5	A	RP-020893		approved	[Integrity protection] Exact title TBD.	5.2.0	5.3.0	R2	
25.921	042	-	R99	F	RP-020725	R2-023087	approved	Introduction of backwards compatible correction mechanism	3.7.0	3.8.0	R2	TEI
25.921	043	-	Rel-4	A	RP-020725	R2-023288	approved	Introduction of backwards compatible correction mechanism	4.4.0	4.5.0	R2	TEI
25.921	044	-	Rel-5	A	RP-020725	R2-023289	approved	Introduction of backwards compatible correction mechanism	5.0.0	5.1.0	R2	TEI
34.109	020	-	R99	F	RP-020728	R2-023155	approved	Reference Measurement Channels references	3.7.0	3.8.0	R2	TEI
34.109	021	-	Rel-4	A	RP-020728	R2-023156	approved	Reference Measurement Channels references	4.3.0	4.4.0	R2	TEI
34.109	022	-	Rel-5	A	RP-020728	R2-023157	approved	Reference Measurement Channels references	5.1.0	5.2.0	R2	TEI
25.322	210	-	Rel-5	B	RP-020827	R2-022704	revised	Generation of RLC Status Reports to coordinate with MAC-hs reset	5.2.0		R2	HSDPA-L23
25.331	1714	-	R99	F	RP-020722	R2-022712	revised	Correction on coding of GSM Classmark 2 and 3	3.12.0		R2	TEI
25.331	1715	-	Rel-4	A	RP-020722	R2-022713	revised	Correction on coding of GSM Classmark 2 and 3	4.7.0		R2	TEI
25.331	1716	-	Rel-5	A	RP-020722	R2-022714	revised	Correction on coding of GSM Classmark 2 and 3	5.2.0		R2	TEI
25.331	1732	2	R99	F	RP-020902		withdrawn	Introduction of backwards compatible correction mechanism	3.12.0		R2	TEI
25.331	1733	2	Rel-4	A	RP-020902		withdrawn	Introduction of backwards compatible correction mechanism	4.7.0		R2	TEI
25.331	1734	2	Rel-5	A	RP-020902		withdrawn	Introduction of backwards compatible correction mechanism	5.2.0		R2	TEI

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25.331	1775	-	Rel-4	A	RP-020727	R2-023140	rejected	Closed loop Tx diversity with different timing adjustment modes in the same active set	4.7.0		R2	TEI
25.331	1793	-	Rel-5	F	RP-020737	R2-023211	revised	HSDPA parameter value ranges	5.2.0		R2	HSDPA-L23
25.331	1793	1	Rel-5	F	RP-020863	RP-020863	revised	HSDPA parameter value ranges	5.2.0		R2	HSDPA-L23
25.331	1799	-	Rel-5	C	RP-020738	R2-023229	rejected	Group release with security	5.2.0		R2	TEI5
25.331	1800	-	Rel-5	C	RP-020738	R2-023230	rejected	Group release without security	5.2.0		R2	TEI5
25.401	061	-	Rel-4	F	RP-020750	R3-022298	approved	Definition of URA	4.5.0	4.6.0	R3	TEI4
25.401	062	-	Rel-5	A	RP-020750	R3-022299	approved	Definition of URA	5.4.0	5.5.0	R3	TEI4
25.401	064	1	Rel-5	F	RP-020764	R3-022586	approved	Corrections to the SNA Access Control Function	5.4.0	5.5.0	R3	NETSHARE
25.402	038	-	Rel-4	F	RP-020756	R3-022382	approved	Node B Synchronisation for 3.84Mcps TDD	4.5.0	4.6.0	R3	RANimp-NBsync
25.410	043	2	Rel-5	F	RP-020764	R3-022590	approved	Introduction of the Access Control Function	5.2.0	5.3.0	R3	NETSHARE
25.413	516	-	Rel-4	F	RP-020751	R3-022300	approved	Correction to RANAP RESET procedure	4.6.0	4.7.0	R3	TEI4
25.413	517	-	Rel-5	A	RP-020751	R3-022301	approved	Correction to RANAP RESET procedure	5.2.0	5.3.0	R3	TEI4
25.413	521	1	Rel-4	F	RP-020751	R3-022539	approved	Rel4 Common CR after RANAP review	4.6.0	4.7.0	R3	TEI4
25.413	522	1	Rel-5	A	RP-020751	R3-022540	approved	Rel4 Common CR after RANAP review	5.2.0	5.3.0	R3	TEI4
25.413	525	4	Rel-4	F	RP-020860		approved	Correction to enable Rel4 extensions in Location Reporting Control procedure.	4.6.0	4.7.0	R3	TEI4
25.413	526	4	Rel-5	A	RP-020860		approved	Correction to enable Rel4 extensions in Location Reporting Control procedure.	5.2.0	5.3.0	R3	TEI4
25.413	527	2	R99	F	RP-020741	R3-022597	approved	Correction of RAB Subflows and SRBs mapping onto the transport channel identifiers of Iur in the Source RNC to Target RNC transparent container.	3.11.1	3.12.0	R3	TEI
25.413	528	2	Rel-4	A	RP-020741	R3-022598	approved	Correction of RAB Subflows and SRBs mapping onto the transport channel identifiers of Iur in the Source RNC to Target RNC transparent container.	4.6.0	4.7.0	R3	TEI
25.413	529	2	Rel-5	A	RP-020741	R3-022599	approved	Correction of RAB Subflows and SRBs mapping onto the transport channel identifiers of Iur in the Source RNC to Target RNC transparent container.	5.2.0	5.3.0	R3	TEI
25.413	530	1	R99	F	RP-020741	R3-022541	approved	Correction of coding of GSM IEs	3.11.1	3.12.0	R3	TEI
25.413	531	1	Rel-4	A	RP-020741	R3-022542	approved	Correction of coding of GSM IEs	4.6.0	4.7.0	R3	TEI
25.413	532	1	Rel-5	A	RP-020741	R3-022543	approved	Correction of coding of GSM IEs	5.2.0	5.3.0	R3	TEI
25.413	533	1	Rel-5	F	RP-020760	R3-022593	approved	New cause codes for UTRAN sharing in connected mode	5.2.0	5.3.0	R3	NETSHARE
25.413	534	1	Rel-4	F	RP-020751	R3-022537	approved	Encoding of information elements	4.6.0	4.7.0	R3	TEI4
25.413	535	1	Rel-5	A	RP-020751	R3-022538	approved	Encoding of Information Elements	5.2.0	5.3.0	R3	TEI4
25.414	041	-	R99	F	RP-020742	R3-022292	approved	Correction to Iu-ps IP/ATM	3.11.0	3.12.0	R3	TEI
25.414	042	-	Rel-4	A	RP-020742	R3-022293	approved	Correction to Iu-ps IP/ATM	4.4.0	4.5.0	R3	TEI
25.414	043	-	Rel-5	A	RP-020742	R3-022294	approved	Correction to Iu-ps IP/ATM	5.2.0	5.3.0	R3	TEI
25.414	044	1	Rel-4	F	RP-020772	R3-022535	approved	Clarification on IP fragmentation over Iu interface (set 1: changes in RAN3 specs)	4.4.0	4.5.0	R3	TEI4
25.414	045	1	Rel-5	A	RP-020772	R3-022536	approved	Clarification on IP fragmentation over Iu interface (set 1: Changes in RAN3 specs)	5.2.0	5.3.0	R3	TEI5

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25.414	049	-	Rel-5	F	RP-020761	R3-022456	approved	Correction on RTP timestamp usage	5.2.0	5.3.0	R3	TEI5
25.414	051	1	Rel-5	F	RP-020761	R3-022589	approved	Clarification on application of IP-ALCAP in Rel5	5.2.0	5.3.0	R3	ETRAN-IPtrans
25.415	115	-	Rel-4	F	RP-020752	R3-022463	approved	Handling of FQC in down link, missing RNC action	4.6.0	4.7.0	R3	TEI4
25.415	116	-	Rel-5	A	RP-020752	R3-022464	approved	Handling of FQC in down link, missing RNC action	5.2.0	5.3.0	R3	TEI4
25.415	117	1	Rel-4	F	RP-020752	R3-022524	approved	Rapporteurs corrections	4.6.0	4.7.0	R3	TEI4
25.415	118	1	Rel-5	A	RP-020752	R3-022525	approved	Rapporteurs corrections	5.2.0	5.3.0	R3	TEI4
25.423	723	-	Rel-4	F	RP-020758	R3-022304	approved	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	4.6.0	4.7.0	R3	LCRTDD-IublIur
25.423	724	-	Rel-5	A	RP-020758	R3-022305	approved	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	5.3.0	5.4.0	R3	LCRTDD-IublIur
25.423	725	-	Rel-4	F	RP-020757	R3-022308	approved	Correction to RX Timing Deviation LCR value range	4.6.0	4.7.0	R3	LCRTDD-IublIur
25.423	726	-	Rel-5	A	RP-020757	R3-022309	approved	Correction to RX Timing Deviation LCR value range	5.3.0	5.4.0	R3	LCRTDD-IublIur
25.423	727	2	Rel-4	F	RP-020759	R3-022608	approved	Slot Format for 1.28Mcps TDD	4.6.0	4.7.0	R3	LCRTDD-IublIur
25.423	728	2	Rel-5	A	RP-020759	R3-022609	approved	Slot Format for 1.28Mcps TDD	5.3.0	5.4.0	R3	LCRTDD-IublIur
25.423	729	1	Rel-5	F	RP-020762	R3-022605	approved	MAC-hs Reset Indicator	5.3.0	5.4.0	R3	HSDPA-IublIur
25.423	730	1	Rel-5	F	RP-020773	R3-022596	approved	Measurement power offset signalling for HSDPA	5.3.0	5.4.0	R3	HSDPA-IublIur
25.423	731	-	Rel-5	F	RP-020768	R3-022320	approved	Power Offset Values for HS-DPCCH	5.3.0	5.4.0	R3	HSDPA-IublIur
25.423	732	-	Rel-5	F	RP-020762	R3-022322	approved	Corrections on the Cell Capacity Class	5.3.0	5.4.0	R3	TEI5
25.423	733	-	Rel-5	F	RP-020762	R3-022323	approved	Rel-5 ASN.1 Cleaning-up	5.3.0	5.4.0	R3	TEI5
25.423	737	2	Rel-4	F	RP-020753	R3-022551	approved	Final Corrections from RNSAP Procedure Review	4.6.0	4.7.0	R3	TEI4
25.423	738	2	Rel-5	A	RP-020753	R3-022552	approved	Final Corrections from RNSAP Procedure Review	5.3.0	5.4.0	R3	TEI4
25.423	742	1	Rel-5	F	RP-020767	R3-022562	approved	Addition of the second TDD Channelisation Code of HS-SCCH for the 1.28Mcps TDD option.	5.3.0	5.4.0	R3	HSDPA-IublIur
25.423	744	1	Rel-5	F	RP-020765	R3-02566	approved	Clarification of the usage of HS-DSCH-RNTI	5.3.0	5.4.0	R3	HSDPA-IublIur
25.423	753	-	Rel-5	F	RP-020766	R3-022428	approved	Clarification for the inclusion of the DL Power Balancing Updated Indicator IE	5.3.0	5.4.0	R3	TEI5
25.423	754	-	R99	F	RP-020744	R3-022434	approved	Correction for the DL DPDCH transmission	3.11.0	3.12.0	R3	TEI
25.423	755	-	Rel-4	A	RP-020744	R3-022435	approved	Correction for the DL DPDCH transmission	4.6.0	4.7.0	R3	TEI
25.423	756	-	Rel-5	A	RP-020744	R3-022436	approved	Correction for the DL DPDCH transmission	5.3.0	5.4.0	R3	TEI
25.423	757	3	Rel-5	F	RP-020855		approved	MAC-hs Window Size	5.3.0	5.4.0	R3	
25.423	761	1	R99	F	RP-020743	R3-022521	approved	DSCH-RNTI in RADIO LINK SETUP FAILURE	3.11.0	3.12.0	R3	TEI
25.423	762	1	Rel-4	A	RP-020743	R3-022522	approved	DSCH-RNTI in RADIO LINK SETUP FAILURE	4.6.0	4.7.0	R3	TEI
25.423	763	1	Rel-5	A	RP-020743	R3-022523	approved	DSCH-RNTI in RADIO LINK SETUP FAILURE	5.3.0	5.4.0	R3	TEI
25.425	055	1	Rel-5	F	RP-020770	R3-022570	approved	Clarification for the initial capacity allocation of HS-DSCH	5.2.0	5.3.0	R3	HSDPA-IublIur
25.425	057	1	Rel-5	F	RP-020771	R3-022576	approved	Clarification for the Maximum MAC-d PDU Length	5.2.0	5.3.0	R3	HSDPA-IublIur
25.427	086	-	R99	F	RP-020744	R3-022431	approved	Correction for the DL DPDCH transmission	3.9.0	3.10.0	R3	TEI
25.427	087	-	Rel-4	A	RP-020744	R3-022432	approved	Correction for the DL DPDCH transmission	4.3.0	4.4.0	R3	TEI
25.427	088	-	Rel-5	A	RP-020744	R3-022433	approved	Correction for the DL DPDCH transmission	5.0.0	5.1.0	R3	TEI

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25.433	746	-	Rel-4	F	RP-020754	R3-022296	approved	Alignment of Error Indication procedure text to the latest RNSAP	4.6.0	4.7.0	R3	TEI4
25.433	747	-	Rel-5	A	RP-020754	R3-022297	approved	Alignment of Error Indication procedure text to the latest RNSAP	5.2.0	5.3.0	R3	TEI4
25.433	748	-	Rel-4	F	RP-020758	R3-022302	approved	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	4.6.0	4.7.0	R3	LCRTDD-lublur
25.433	749	-	Rel-5	A	RP-020758	R3-022303	approved	Add UL SIR_target for Unsynchronized RL Reconfiguration in 1.28Mcps TDD	5.2.0	5.3.0	R3	LCRTDD-lublur
25.433	750	-	Rel-4	F	RP-020757	R3-022306	approved	Correction to RX Timing Deviation LCR value range	4.6.0	4.7.0	R3	LCRTDD-lublur
25.433	751	-	Rel-5	A	RP-020757	R3-022307	approved	Correction to RX Timing Deviation LCR value range	5.2.0	5.3.0	R3	LCRTDD-lublur
25.433	752	2	Rel-4	F	RP-020759	R3-022606	approved	Slot Format for 1.28Mcps TDD	4.6.0	4.7.0	R3	LCRTDD-lublur
25.433	753	2	Rel-5	A	RP-020759	R3-022607	approved	Slot Format for 1.28Mcps TDD	5.2.0	5.3.0	R3	LCRTDD-lublur
25.433	754	-	Rel-4	F	RP-020754	R3-022314	approved	SYNC_DL Code ID for 1.28Mcps TDD	4.6.0	4.7.0	R3	LCRTDD-lublur
25.433	755	-	Rel-5	A	RP-020754	R3-022315	approved	SYNC_DL Code ID for 1.28Mcps TDD	5.2.0	5.3.0	R3	LCRTDD-lublur
25.433	756	1	Rel-5	F	RP-020773	R3-022595	approved	Measurement power offset signalling for HSDPA	5.2.0	5.3.0	R3	HSDPA-lublur
25.433	757	-	Rel-5	F	RP-020768	R3-022319	approved	Power Offset Values for HS-DPCCH	5.2.0	5.3.0	R3	HSDPA-lublur
25.433	764	3	Rel-5	F	RP-020855		approved	MAC-hs Window Size	5.2.0	5.3.0	R3	
25.433	766	1	Rel-4	F	RP-020754	R3-022553	approved	Clarification on the Minimum Spreading Factor for TDD	4.6.0	4.7.0	R3	TEI4
25.433	767	1	Rel-5	A	RP-020754	R3-022554	approved	Clarification on the Minimum Spreading Factor for TDD	5.2.0	5.3.0	R3	TEI4
25.433	768	1	Rel-4	F	RP-020756	R3-022555	approved	Node B Synchronisation for 3.84Mcps TDD	4.6.0	4.7.0	R3	RANimp-NBsync
25.433	770	1	Rel-5	F	RP-020767	R3-022561	approved	Addition of the second TDD Channelisation Code of HS-SCCH for the 1.28Mcps TDD option.	5.2.0	5.3.0	R3	HSDPA-lublur
25.433	772	1	Rel-5	F	RP-020765	R3-022567	approved	Clarification of the usage of HS-DSCH-RNTI	5.2.0	5.3.0	R3	HSDPA-lublur
25.433	779	-	Rel-4	F	RP-020754	R3-022411	approved	Clarification to RACH for 1.28Mcps TDD	4.6.0	4.7.0	R3	LCRTDD-lublur
25.433	780	-	Rel-5	A	RP-020754	R3-022412	approved	Clarification to RACH for 1.28Mcps TDD	5.2.0	5.3.0	R3	LCRTDD-lublur
25.433	781	-	Rel-5	F	RP-020763	R3-022421	approved	Correction for the definition of the MAC-hs Reordering Buffer Size IE	5.2.0	5.3.0	R3	HSDPA-lublur
25.433	782	-	Rel-5	F	RP-020766	R3-022429	approved	Clarification for the inclusion of the DL Power Balancing Updated Indicator IE	5.2.0	5.3.0	R3	TEI5
25.433	783	-	R99	F	RP-020744	R3-022437	approved	Correction for the DL DPDCH transmission	3.11.0	3.12.0	R3	TEI
25.433	784	-	Rel-4	A	RP-020744	R3-022438	approved	Correction for the DL DPDCH transmission	4.6.0	4.7.0	R3	TEI
25.433	785	-	Rel-5	A	RP-020744	R3-022439	approved	Correction for the DL DPDCH transmission	5.2.0	5.3.0	R3	TEI
25.435	089	1	Rel-5	F	RP-020770	R3-022571	approved	Clarification for the initial capacity allocation of HS-DSCH	5.2.0	5.3.0	R3	HSDPA-lublur

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25.435	091	1	Rel-5	F	RP-020771	R3-022577	approved	Clarification for the Maximum MAC-d PDU Length	5.2.0	5.3.0	R3	HSDPA-Iublur
29.108	009	1	Rel-4	F	RP-020755	R3-022574	approved	Explicit indication of relocation related messages	4.2.0	4.3.0	R3	TEI4
29.108	010	1	Rel-5	A	RP-020755	R3-022575	approved	Explicit indication of relocation related messages	5.1.0	5.2.0	R3	TEI4
25.413	520	1	R99	F	RP-020745	R3-022497	rejected	Transfer of Faults Bitmap over Iu for the handling of early mobiles	3.11.1		R3	RANimp-FSEarlyUE
25.413	525	2	Rel-4	F	RP-020751	R3-022578	withdrawn	Correction to enable Rel4 extensions in Location Reporting Control procedure.	4.6.0		R3	TEI4
25.413	525	3	Rel-4	F	RP-020819		withdrawn	Correction to enable Rel4 extensions in Location Reporting Control procedure.	4.6.0		R3	TEI4
25.413	526	2	Rel-5	A	RP-020751	R3-022579	withdrawn	Correction to enable Rel4 extensions in Location Reporting Control procedure.	5.2.0		R3	TEI4
25.413	526	3	Rel-5	A	RP-020819		withdrawn	Correction to enable Rel4 extensions in Location Reporting Control procedure.	5.2.0		R3	TEI4
25.413	538	2	R99	F	RP-020749	R3-022604	rejected	Inclusion of a UE Specific Behaviour Information in RANAP containers as an alternative of RCC container	3.11.1		R3	RANimp-FSEarlyUE
25.413	539	-	R99	F	RP-020748	R3-022549	rejected	Inclusion of UE Specific Behaviour Information in RANAP containers for usage by GSM-BSS	3.11.1		R3	RANimp-FSEarlyUE
25.413	540	-	R99	F	RP-020747	R3-022556	rejected	Inclusion of IMEI-SV based “UE Specific Behaviour Information” in “Source RNC to Target RNC Transparent Container” for handling of early mobiles.	3.11.1		R3	RANimp-FSEarlyUE
25.413	541	-	R99	F	RP-020746	R3-022560	rejected	Transfer of IMEISV over Iu for the Handling of Early Mobiles	3.11.1		R3	RANimp-FSEarlyUE
25.423	757	1	Rel-5	F	RP-020769	R3-022585	revised	MAC-hs Window Size	5.3.0		R3	HSDPA-Iublur
25.423	757	2	Rel-5	F	RP-020824		withdrawn	MAC-hs Window Size	5.3.0		R3	
25.433	764	1	Rel-5	F	RP-020769	R3-022584	revised	MAC-hs Window Size	5.2.0		R3	HSDPA-Iublur
25.433	764	2	Rel-5	F	RP-020824		withdrawn	MAC-hs Window Size	5.2.0		R3	
25.101	194		R99	F	RP-020778	R4-021474	approved	Correction for TPC combining test case 1	3.11.0	3.12.0	R4	TEI
25.101	195		Rel-5	A	RP-020778	R4-021476	approved	Correction for TPC combining test case 1	5.4.0	5.5.0	R4	TEI
25.101	196		Rel-4	A	RP-020778	R4-021475	approved	Correction for TPC combining test case 1	4.5.0	4.6.0	R4	TEI
25.101	198		Rel-5	F	RP-020803	R4-021537	approved	Correction to Specified TBS for HSDPA Reference Channels	5.4.0	5.5.0	R4	HSDPA-RF
25.101	200	1	Rel-5	B	RP-020803	R4-021709	approved	Introduction of requirements for HSDPA UE categories 11 and 12	5.4.0	5.5.0	R4	HSDPA-RF
25.102	127	1	Rel-5	B	RP-020803	R4-021666	approved	Addition of HSDPA UE requirements for 3,84 Mcps TDD option for 16QAM and QPSK for fixed reference channels	5.2.0	5.3.0	R4	HSDPA-RF
25.102	128	1	Rel-5	B	RP-020803	R4-021669	approved	Addition of HSDPA UE requirements for 3,84 Mcps TDD option for 16QAM and QPSK for variable reference channels	5.2.0	5.3.0	R4	HSDPA-RF
25.102	129		Rel-4	F	RP-020782	R4-021559	approved	Introduction of Rel-5 clarifications and small corrections in Rel-4	4.6.0	4.7.0	R4	TEI4
25.102	130		Rel-4	F	RP-020782	R4-021576	approved	Name correction of logical and transport channels	4.6.0	4.7.0	R4	TEI4
25.102	131		Rel-5	A	RP-020782	R4-021577	approved	Name correction of logical and transport channels	5.2.0	5.3.0	R4	TEI4

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25.102	132	1	Rel-5	F	RP-020803	R4-021638	approved	HSDPA UE requirements for 1.28 Mcps TDD option for 16QAM and QPSK for fixed reference channels	5.2.0	5.3.0	R4	HSDPA-RF
25.104	148	1	Rel-6	B	RP-020802	R4-021694	approved	Introduction of Base Station Classes	5.4.0	6.0.0	R4	RInImp-BSClass-FDD
25.104	149	1	Rel-4	A	RP-020781	R4-021658	approved	FDD GSM co-existence in the Same Geographic Area	4.5.0	4.6.0	R4	TEI
25.104	150		Rel-5	F	RP-020781	R4-021449	approved	FDD GSM 850 / PCS 1900 co-existence in the Same Geographic Area	5.4.0	5.5.0	R4	TEI5
25.104	153		Rel-5	A	RP-020781	R4-021448	approved	FDD GSM co-existence in the Same Geographic Area	5.4.0	5.5.0	R4	TEI
25.104	159	1	Rel-4	F	RP-020791	R4-021687	approved	BS IPDL requirement	4.5.0	4.6.0	R4	TEI4
25.104	160	1	Rel-5	A	RP-020791	R4-021688	approved	BS IPDL requirement	5.4.0	5.5.0	R4	TEI4
25.104	161		Rel-4	F	RP-020783	R4-021551	approved	Correction to table of regional requirements	4.5.0	4.6.0	R4	TEI4
25.104	162		Rel-5	A	RP-020783	R4-021552	approved	Correction to table of regional requirements	5.4.0	5.5.0	R4	TEI4
25.104	163		Rel-5	F	RP-020796	R4-021553	approved	General Release 5 corrections	5.4.0	5.5.0	R4	TEI5
25.104	166		Rel-5	F	RP-020796	R4-021654	approved	Clarification of TX diversity requirements	5.4.0	5.5.0	R4	TEI5
25.104	167		R99	F	RP-020781	R4-021659	approved	FDD GSM co-existence in the Same Geographic Area	3.10.0	3.11.0	R4	TEI
25.104	168	-	Rel-6	B	RP-020895	RP-020895	approved	Regional requirement on FDD base station classes	5.4.0	6.0.0	R4	RInImp-BSClass-FDD
25.105	128	1	Rel-4	F	RP-020784	R4-021645	approved	Introduction of Rel-5 clarifications and small corrections in Rel-4	4.5.0	4.6.0	R4	TEI4
25.105	129		Rel-4	F	RP-020784	R4-021574	approved	Name correction of logical and transport channels	4.5.0	4.6.0	R4	TEI4
25.105	130		Rel-5	A	RP-020784	R4-021575	approved	Name correction of logical and transport channels	5.2.0	5.3.0	R4	TEI4
25.105	131		R99	F	RP-020779	R4-021597	approved	Spurious emission requirements for unsynchronized TDD operation	3.11.0	3.12.0	R4	TEI
25.105	132		Rel-4	F	RP-020779	R4-021598	approved	Spurious emission requirements for unsynchronized TDD operation	4.5.0	4.6.0	R4	TEI4
25.105	133		Rel-5	F	RP-020779	R4-021599	approved	Spurious emission requirements for unsynchronized TDD operation	5.2.0	5.3.0	R4	TEI5
25.105	134		Rel-5	F	RP-020801	R4-021647	approved	Correction of adjacent channel leakage power definition	5.2.0	5.3.0	R4	TEI5
25.105	135	1	R99	F	RP-020804	R4-021722	approved	Corrections to 3.84 Mcps TDD reference measurement channels	3.11.0	3.12.0	R4	TEI
25.105	136		Rel-4	A	RP-020804	R4-021701	approved	Corrections to 3.84 Mcps TDD reference measurement channels	4.5.0	4.6.0	R4	TEI
25.105	137		Rel-5	A	RP-020804	R4-021702	approved	Corrections to 3.84 Mcps TDD reference measurement channels	5.2.0	5.3.0	R4	TEI
25.105	138	1	Rel-4	F	RP-020804	R4-021723	approved	Corrections to 1.28 Mcps TDD reference measurement channels	4.5.0	4.6.0	R4	LCRTDD-RF
25.105	139		Rel-5	A	RP-020804	R4-021704	approved	Corrections to 1.28 Mcps TDD reference measurement channels	5.2.0	5.3.0	R4	LCRTDD-RF
25.106	010		Rel-5	A	RP-020861	R4-021518	approved	EVM Test: Change requirement for the use of HSDPA.	5.2.0	5.3.0	R4	RInImp-REP, HSDPA-RF
25.106	011	1	Rel-4	F	RP-020795	R4-021675	approved	Input intermodulation: Correction of co-location and addition of co-existence	4.3.0	4.4.0	R4	RInImp-REP

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25.106	012	1	Rel-5	A	RP-020795	R4-021676	approved	Input intermodulation: Correction of co-location and addition of co-existence	5.2.0	5.3.0	R4	RInImp-REP
25.106	015		Rel-4	F	RP-020785	R4-021529	approved	Aligning of the requirement for "Output power" in extreme conditions with TS25.143	4.3.0	4.4.0	R4	RInImp-REP
25.106	016		Rel-5	A	RP-020785	R4-021530	approved	Aligning of the requirement for "Output power" in extreme conditions with TS25.143	5.2.0	5.3.0	R4	RInImp-REP
25.106	017		Rel-4	F	RP-020794	R4-021586	approved	Out of band gain	4.3.0	4.4.0	R4	RInImp-REP
25.106	018		Rel-5	A	RP-020794	R4-021587	approved	Out of band gain	5.2.0	5.3.0	R4	RInImp-REP
25.106	019		Rel-4	F	RP-020861	R4-021677	approved	EVM Test: Change requirement for the use of HSDPA.	4.3.0	4.4.0	R4	RInImp-REP, HSDPA-RF
25.113	018	1	Rel-4	F	RP-020792	R4-021656	approved	New exclusion bands, requirements for telecommunication port and interpretation of measurement results	4.3.0	4.4.0	R4	TEI4
25.113	019	1	Rel-5	A	RP-020792	R4-021657	approved	New exclusion bands, requirements for telecommunication port and interpretation of measurement results	5.2.0	5.3.0	R4	TEI4
25.123	279		Rel-4	F	RP-020786	R4-021567	approved	Handover Test Case Correction for 1.28Mcps TDD	4.6.0	4.7.0	R4	LCRTDD-RF
25.123	280		Rel-5	A	RP-020786	R4-021568	approved	Handover Test Case Correction for 1.28Mcps TDD	5.2.0	5.3.0	R4	LCRTDD-RF
25.123	281		Rel-4	F	RP-020786	R4-021569	approved	Maximum allowed UL TX Power Correction for 1.28Mcps TDD	4.6.0	4.7.0	R4	LCRTDD-RF
25.123	282		Rel-5	A	RP-020786	R4-021570	approved	Maximum allowed UL TX Power Correction for 1.28Mcps TDD	5.2.0	5.3.0	R4	LCRTDD-RF
25.123	283		Rel-4	F	RP-020786	R4-021571	approved	Corrections to Idle Mode Requirements and Test Cases for 1.28Mcps TDD	4.6.0	4.7.0	R4	LCRTDD-RF
25.123	284		Rel-5	A	RP-020786	R4-021572	approved	Corrections to Idle Mode Requirements and Test Cases for 1.28Mcps TDD	5.2.0	5.3.0	R4	LCRTDD-RF
25.123	285		Rel-5	F	RP-020797	R4-021573	approved	P-CCPCH RSCP and CPICH RSCP signalling range extension	5.2.0	5.3.0	R4	LCRTDD-RF
25.133	437	1	R99	F	RP-020780	R4-021403	approved	Correction of interruption time in FDD/FDD Hard Handover	3.11.0	3.12.0	R4	TEI
25.133	438	1	Rel-4	A	RP-020780	R4-021404	approved	Correction of interruption time in FDD/FDD Hard Handover	4.6.0	4.7.0	R4	TEI
25.133	439	1	Rel-5	A	RP-020780	R4-021405	approved	Correction of interruption time in FDD/FDD Hard Handover	5.4.0	5.5.0	R4	TEI
25.133	474		Rel-6	B	RP-020802	R4-021432	approved	RRM requirement changes for FDD Base Station Classification	5.4.0	6.0.0	R4	RInImp-BSClass-FDD
25.133	476		R99	F	RP-020780	R4-021443	approved	Correction of UE Transmitted Power requirements in case of Compressed Mode gaps	3.11.0	3.12.0	R4	TEI
25.133	477		Rel-5	A	RP-020780	R4-021445	approved	Correction of UE Transmitted Power requirements in case of Compressed Mode gaps	5.4.0	5.5.0	R4	TEI
25.133	478	1	R99	F	RP-020780	R4-021705	approved	Correction of Measurement Occasion Patterns for BSIC Reconfirmation	3.11.0	3.12.0	R4	TEI
25.133	479	1	Rel-5	A	RP-020780	R4-021707	approved	Correcction of Measurement Occasion Patterns for BSIC Reconfirmation	5.4.0	5.5.0	R4	TEI
25.133	480	2	R99	F	RP-020780	R4-021741	approved	Required Window size for measurements using IPDL	3.11.0	3.12.0	R4	TEI
25.133	481	2	Rel-5	A	RP-020780	R4-021743	approved	Required Window size for measurements using IPDL	5.4.0	5.5.0	R4	TEI
25.133	482	1	R99	F	RP-020780	R4-021713	approved	UE Timer accuracy	3.11.0	3.12.0	R4	TEI

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25.133	483	1	Rel-5	A	RP-020780	R4-021715	approved	UE Timer accuracy	5.4.0	5.5.0	R4	TEI
25.133	488		Rel-4	A	RP-020780	R4-021444	approved	Correction of UE Transmitted Power requirements in case of Compressed Mode gaps	4.6.0	4.7.0	R4	TEI
25.133	489	1	Rel-4	A	RP-020780	R4-021706	approved	Correction of Measurement Occasion Patterns for BSIC Reconfirmation	4.6.0	4.7.0	R4	TEI
25.133	490	2	Rel-4	A	RP-020780	R4-021742	approved	Required Window size for measurements using IPDL	4.6.0	4.7.0	R4	TEI
25.133	491	1	Rel-4	A	RP-020780	R4-021714	approved	UE Timer accuracy	4.6.0	4.7.0	R4	TEI
25.133	497		Rel-6	B	RP-020802	R4-021497	approved	Changes in TS25.133 according to FDD Local area BS	5.4.0	6.0.0	R4	RInImp-BSClass-FDD
25.133	498	1	Rel-5	A	RP-020787	R4-021643	approved	Total received power density definition for the BS	5.4.0	5.5.0	R4	TEI4
25.133	502	1	Rel-5	F	RP-020798	R4-021663	approved	CPICH RSCP report mapping	5.4.0	5.5.0	R4	TEI5
25.133	503		Rel-4	F	RP-020787	R4-021644	approved	Total received power density definition for the BS	4.6.0	4.7.0	R4	TEI4
25.133	504		R99	F	RP-020780	R4-021651	approved	Correction of UE parameters for Random Access Test	3.11.0	3.12.0	R4	TEI
25.133	505		Rel-4	A	RP-020780	R4-021652	approved	Correction of UE parameters for Random Access Test	4.6.0	4.7.0	R4	TEI
25.133	506		Rel-5	A	RP-020780	R4-021653	approved	Correction of UE parameters for Random Access Test	5.4.0	5.5.0	R4	TEI
25.141	247		Rel-5	F	RP-020803	R4-021407	approved	Correction on PN9 seed setting in Test Model 5	5.4.0	5.5.0	R4	HSDPA-RF
25.141	249	1	Rel-6	B	RP-020802	R4-021695	approved	Introduction of Base Station Classes	5.4.0	6.0.0	R4	RInImp-BSClass-FDD
25.141	250	1	Rel-4	A	RP-020781	R4-021660	approved	FDD GSM co-existence in the Same Geographic Area	4.6.0	4.7.0	R4	TEI
25.141	251		Rel-5	F	RP-020781	R4-021452	approved	FDD GSM 850 / PCS 1900 co-existence in the Same Geographic Area	5.4.0	5.5.0	R4	TEI5
25.141	252		Rel-5	A	RP-020781	R4-021451	approved	FDD GSM co-existence in the Same Geographic Area	5.4.0	5.5.0	R4	TEI
25.141	255	1	Rel-4	F	RP-020791	R4-021689	approved	BS IPDL test	4.6.0	4.7.0	R4	TEI4
25.141	256	1	Rel-5	A	RP-020791	R4-021690	approved	BS IPDL test	5.4.0	5.5.0	R4	TEI4
25.141	257	1	Rel-4	F	RP-020788	R4-021671	approved	General corrections to TS 25.141	4.6.0	4.7.0	R4	TEI4
25.141	258	1	Rel-5	A	RP-020788	R4-021672	approved	General corrections to TS 25.141	5.4.0	5.5.0	R4	TEI4
25.141	259		Rel-5	F	RP-020799	R4-021556	approved	General Release 5 corrections	5.4.0	5.5.0	R4	TEI5
25.141	260		Rel-4	F	RP-020788	R4-021557	approved	Transmit intermodulation test correction	4.6.0	4.7.0	R4	TEI4
25.141	261		Rel-5	A	RP-020788	R4-021558	approved	Transmit intermodulation test correction	5.4.0	5.5.0	R4	TEI4
25.141	263	1	Rel-5	F	RP-020799	R4-021655	approved	Addition of TX Diversity timing accuracy test	5.4.0	5.5.0	R4	TEI5
25.141	264		R99	F	RP-020781	R4-021661	approved	FDD GSM co-existence in the Same Geographic Area	3.11.0	3.12.0	R4	TEI
25.141	265	-	Rel-6	B	RP-020895	RP-020895	approved	Regional requirement on FDD base station classes	5.4.0	6.0.0	R4	RInImp-BSClass-FDD
25.142	146	1	Rel-5	F	RP-020803	R4-021670	approved	Correction of 16QAM EVM/PCDE testing for HSDPA for 3,84 Mcps TDD option	5.2.0	5.3.0	R4	HSDPA-RF
25.142	147	1	Rel-4	F	RP-020789	R4-021646	approved	Introduction of Rel-5 clarifications and small corrections in Rel-4	4.6.0	4.7.0	R4	TEI4
25.142	148		Rel-4	F	RP-020789	R4-021582	approved	Averaging period in ACLR test for 1.28 Mcps TDD option	4.6.0	4.7.0	R4	LCRTDD-RF
25.142	149		Rel-5	A	RP-020789	R4-021583	approved	Averaging period in ACLR test for 1.28 Mcps TDD option	5.2.0	5.3.0	R4	LCRTDD-RF
25.142	150		Rel-5	F	RP-020801	R4-021648	approved	Correction of adjacent channel leakage power definition	5.2.0	5.3.0	R4	TEI5
25.142	151		R99	F	RP-020804	R4-021724	approved	Corrections to TDD 3.84Mcps Reference Measurement Channels	3.11.0	3.12.0	R4	TEI

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25.142	152		Rel-4	A	RP-020804	R4-021725	approved	Corrections to TDD 3.84Mcps Reference Measurement Channels	4.6.0	4.7.0	R4	TEI
25.142	153		Rel-5	A	RP-020804	R4-021726	approved	Corrections to TDD 3.84Mcps Reference Measurement Channels	5.2.0	5.3.0	R4	TEI4
25.142	154		Rel-4	F	RP-020804	R4-021727	approved	Corrections to TDD 1.28Mcps Reference Measurement Channels	4.6.0	4.7.0	R4	LCRTDD-RF
25.142	155		Rel-5	A	RP-020804	R4-021728	approved	Corrections to TDD 1.28Mcps Reference Measurement Channels	5.2.0	5.3.0	R4	LCRTDD-RF
25.143	013	1	Rel-4	F	RP-020790	R4-021678	approved	New test environment: Extreme power supply for output power test	4.5.0	4.6.0	R4	RInImp-REP
25.143	014	1	Rel-5	A	RP-020790	R4-021679	approved	New test environment: Extreme power supply for output power test	5.2.0	5.3.0	R4	RInImp-REP
25.143	015	1	Rel-4	F	RP-020790	R4-021680	approved	Addition of Repeater configuration	4.5.0	4.6.0	R4	RInImp-REP
25.143	016	1	Rel-5	A	RP-020790	R4-021681	approved	Addition of Repeater configuration	5.2.0	5.3.0	R4	RInImp-REP
25.143	017		Rel-4	F	RP-020790	R4-021516	approved	Definition of the power to select the right table for the spectrum emission mask requirement.	4.5.0	4.6.0	R4	RInImp-REP
25.143	018		Rel-5	A	RP-020790	R4-021517	approved	Definition of the power to select the right table for the spectrum emission mask requirement.	5.2.0	5.3.0	R4	RInImp-REP
25.143	019		Rel-5	F	RP-020861	R4-021519	approved	EVM Test: Change of the requirement for the use of HSDPA	5.2.0	5.3.0	R4	RInImp-REP, HSDPA-RF
25.143	020		Rel-5	A	RP-020790	R4-021520	approved	EVM Test: Change from Test Model 4 to Test Model 1	5.2.0	5.3.0	R4	RInImp-REP
25.143	021	1	Rel-4	F	RP-020795	R4-021683	approved	Input intermodulation: Correction of co-location and addition of co-existence	4.5.0	4.6.0	R4	RInImp-REP
25.143	022	1	Rel-5	A	RP-020795	R4-021684	approved	Input intermodulation: Correction of co-location and addition of co-existence	5.2.0	5.3.0	R4	RInImp-REP
25.143	023		Rel-4	F	RP-020790	R4-021527	approved	Spurious emission: correction of the procedure	4.5.0	4.6.0	R4	RInImp-REP
25.143	024		Rel-5	A	RP-020790	R4-021528	approved	Spurious emission: correction of the procedure	5.2.0	5.3.0	R4	RInImp-REP
25.143	025		Rel-4	F	RP-020794	R4-021584	approved	Out of band gain	4.5.0	4.6.0	R4	RInImp-REP
25.143	026		Rel-5	A	RP-020794	R4-021585	approved	Out of band gain	5.2.0	5.3.0	R4	RInImp-REP
25.143	027		Rel-4	F	RP-020861	R4-021682	approved	EVM Test: Change requirement for the use of HSDPA.	4.5.0	4.6.0	R4	RInImp-REP, HSDPA-RF
25.143	028		Rel-4	F	RP-020790	R4-021685	approved	EVM Test: Change from Test Model 4 to Test Model 1	4.5.0	4.6.0	R4	RInImp-REP
25.942	010		Rel-6	B	RP-020802	R4-021495	approved	Blocking scenarios for Medium Range BS in FDD mode	5.1.0	6.0.0	R4	RInImp-BSClass-FDD
25.991	001		Rel-5	F	RP-020800	R4-021511	approved	Correction to Pilot Interference Mitigation Technical Report	5.0.0	5.1.0	R4	RInImp-UERecPerf
34.124	009		Rel-4	F	RP-020792	R4-021456	approved	New exclusion bands and interpretation of measurement results	4.0.0	4.1.0	R4	TEI4
34.124	010		Rel-5	A	RP-020792	R4-021457	approved	New exclusion bands and interpretation of measurement results	5.1.0	5.2.0	R4	TEI4
25.106	010		Rel-5	A	RP-020793	R4-021518	withdrawn	EVM Test: Change requirement for the use of HSDPA.	5.2.0		R4	RInImp-REP, HSDPA-RF
25.106	019		Rel-4	F	RP-020793	R4-021677	withdrawn	EVM Test: Change requirement for the use of HSDPA.	4.3.0		R4	RInImp-REP,

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												HSDPA-RF
25.143	027		Rel-4	F	RP-020793	R4-021682	withdrawn	EVM Test: Change requirement for the use of HSDPA.	4.5.0		R4	RInImp-REP, HSDPA-RF

Annex D: List of actions

D.1 Actions for all WGs

- Ensure that CRs to different specifications but related to the same topic are presented to TSG RAN bundled together (section 7).
- Clarification changes should be applied to Release 5 onwards (Not Release 4) (section 7.1.4)

D.2 Specific actions for WG1

- To review and endorse the modified WI Description Sheet for MIMO (RP-020900)

D.3 Specific actions for WG2

- Review the LS from SA WG2 in RP-020894 on the description of the LCS architecture and answer the questions raised by SA WG2 (section 6.3)

D.4 Specific actions for WG3

- Review the LS from SA WG2 in RP-020894 on the description of the LCS architecture and answer the questions raised by SA WG2 (section 6.3)
- To review the AISG specification (to be presented by a 3GPP member company)

D.5 Specific actions for WG4

- To continue the work on Cell Identification in Compress Mode (section 7.4.2)
- To review the AISG specification (to be presented by a 3GPP member company)

D.6 Actions for RAN Chairman

- Bring to the attention of TSG SA the network integration testing study undergone by ETSI MTS and reported in the LS in RP-020686 (section 6.1)
- To send the timetable for submission of contributions to ITU-R WP8F for Rev. 4 of M.1457 to 3GPP market representatives (RP-020836).

Annex E: Meeting Schedule

TSG RAN WG1 meetings:

Meeting #	Date	Host	Location
30	7-10 January 2003	Qualcomm	San Diego, US
31	18-21 February 2003	NTT DoCoMo	Tokyo, Japan
32	7-11 April 2003	Samsung	Seoul, Korea
33	19-23 May 2003	European Friends of 3GPP	Paris, France
34	25-29 August 2003	tbd	tbd
35	6-10 October 2003	tbd	tbd
36	17-21 November 2003	tbd	tbd

TSG RAN WG2 meetings:

Meeting #	Date	Host	Location
MBMS Ad Hoc	15 - 16 January 2003	3	London, UK
34	17 - 21 February 2003		Europe
35	07 - 11 April 2003		Asia
36	19 - 23 May 2003	European Friends of 3GPP	Paris, France
37	25 - 29 August 2003		Europe
38	06 - 10 October 2003		Europe
39	17 - 21 November 2003	Qualcomm	San Diego, US

TSG RAN WG3 meetings:

Meeting #	Date	Host	Location
34	17 - 21 February 2003	ETSI	Sophia Antipolis, France
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		San Diego, US

TSG RAN WG4 meetings:

Meeting #	Date	Host	Location
26	17 – 21 Feb 2003	European Friends of 3GPP	Madrid, Spain
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
Early UE Ad Hoc	29 - 30 January 2003 (tbc)	ETSI	Sophia Antipolis, France
19	11 - 14 March 2003	UK Friends of 3GPP	Birmingham, UK
20	03 - 06 June 2003	Nokia	Hämeenlinna, Finland
21	16 - 19 September 2003	Siemens	Berlin, Germany
22	09 - 12 December 2003	ARIB/TTC/NA Friends of 3GPP	Hawaii, US
23	09 - 12 March 2004		China
24	01 - 04 June 2004		
25	07 - 10 September 2004		US
26	07 - 10 December 2004		

Annex F: Summary of RAN Work Items

This table lists RAN Work Items still open after meeting #18 and new Work Items approved at meeting #18. 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%	June 03	RP-020698	Completion date changed from March 03
BB	Base Station Classification	RInImp-BSClass	WG4		Dec 02		3.84 Mcps TDD & 1.28 Mcps TDD BS Class already finished
WT	FDD Base Station Classification	RInImp-BSClass-FDD	WG4	95%	Dec 02	RP-020697	First batch of CRs approved in this meeting. The WI is finished.
BB	Terminal power saving features	RInImp-TPS	WG2	0%		RP-020692	Generic work item. No progress
BB	Multiple Input Multiple Output antennas (MIMO)	RInImp-MIMO	WG1	40%	Sept 03	RP-020699	Agreement to modify WIDS to explicitly include TDD. New WIDS to be reviewed by WG1
BB	Improving Receiver Performance Requirements for the FDD UE	RInImp - UERecPerf	WG4	-	Sept 03	RP-020700	Modification of the scope under discussion in WG4. Completion date changed from Dec. 2002
New BB	UMTS 850	RInImp-UMTS850	WG4		March 04		New WI. Description Sheet in RP-020875
SI	FS on Radio link performance enhancements	RInImp-RIperf	WG1	31%	Sept 03	RP-020704	Completion date changed from March 03
SI	FS on Fast Cell Selection (FCS) for HS-DSCH	RInImp-FCS	WG1	20%	March 03	RP-020705	
SI	FS on UTRA Wideband Distribution System	RInImp-WDS	WG4	40%	March 03	RP-020706	
SI	FS for the viable deployment of UTRA in additional and diverse spectrum arrangements	RInImp-UMTSBands	WG4	75%	March 03	RP-020689	Completion date changed from December 02

Type	WI name	WI acronym	Leading WG	%	Finish date	Status report	Remarks
SI	FS on Improvement of inter-frequency and inter-system measurement for 1.28 Mcps TDD	RInImp-IflsMLCR	WG1	45%	March 03	RP-020707	
SI	FS for the Analysis of OFDM for UTRAN enhancement	RInImp-FSOFDM	WG1	0%	June 03	RP-020708	
SI	FS on Uplink Enhancements for Dedicated Transport Channels	RInImp-FSUpDTrCh	WG1	0%	June 03	RP-020709	
SI	FS on Analysis of higher chip rates for UTRA TDD evolution	RInImp-FSVHCRTDD	WG1	10%	June 03	RP-020710	
Feat	**RAN Improvement Feature**	RANimp	TSG RAN				
BB	Radio access bearer support enhancement	RANimp-RABSE	WG2	0%		RP-020691	Generic WI; Rel-6 work has not yet started
BB	Improvement of RRM across RNS and RNS/BSS	RRM1	WG3	35%	June 03	RP-020701	Completion date changed from December 02
BB	Beamforming Enhancements	RANimp-BFE	WG1	50%	June 03	RP-020702	Completion date changed from March 03
SI	FS on the Evolution of UTRAN Architecture	RANimp-FSEvo	WG3	5%	June 03	RP-020711	
SI	FS for the Early Mobile Handling in UTRAN	RANimp-FSEarlyUE	WG2	50%	March 03	RP-020839	Completion date changed from December 02
New SI	Improved Access to UE Measurement Data for CRNC to support TDD RRM		WG3		June 03		New SI. Description Sheet in RP-020901
BB	UE positioning		TSG RAN				This is a building block under SA WG2 feature "Location Services"
WT	UE positioning enhancements		WG2				Generic WI; Rel-6 work has not yet started
WT	Open interface between the SMLC and the SRNC within the UTRAN to support Rel-4 positioning methods	LCS-Rel4Pos	WG2	0%	March 03	RP-020693	
SI	FS on Enhancements to OTDOA Positioning using advanced blanking methods		WG2	40%	June 03	RP-020696	Completion date changed from March 03
Feat	**High Speed Downlink Packet Access**	HSDPA	TSG RAN				
BB	HSDPA - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing	HSDPA-RF	WG4	90%	March 03	RP-020703	HSDPA-RF remains part of Rel-5
BB	Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN	MBMS-RAN	WG2	15%	June 03	RP-020694	This is a building block under SA WG1 feature "MBMS"