### TSG-RAN Meeting #22 Maui, Hawaii, USA, 9 - 12 December 2003

Title:	Revised Draft Report of the 21 <sup>th</sup> 3GPP TSG RAN meeting (Frankfurt, Germany, 16 - 19 September 2003)
Document for:	Approval
Source:	3GPP support



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### Executive Report

TSG RAN meeting #21 took place Hotel Intercontinental in Frankfurt, Germany. The meeting started at 9:00 on Tuesday 16<sup>th</sup> September 2003 and finished at 11:00 on Friday 19<sup>th</sup>. 92 participants were registered and 181 documents were presented.

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

Release	WG1	WG2	WG3	WG4	Total
Release 99	1	3 <u>4</u> 5	3	2	4 <u>0</u> 4
Rel-4 CRs (Rel-4 excluding Cat A)	1	<del>38 <u>37 (</u>5)</del>	6 (3)	9 (7)	<del>54_<u>53 (</u>15)</del>
ReI-5 CRs (ReI-5 excluding Cat A)					<del>129-<u>128</u></del>
	15 (1 <u>4</u> 3)	<del>55-<u>54</u> (</del> 25)	44 (38)	15 (6)	( <del>82<u>83</u>)</del>
Rel-6 CRs (Rel-6 excluding Cat A)	1 (1)	1 (1)	4 (1)	18 (12)	24 (15)
Total CRs (Total excluding Cat A)		<del>129 <u>126</u></del>			<del>248-<u>245</u></del>
	18 ( <mark>14<u>16</u>)</mark>	( <del>31<u>65</u>)</del>	57 ( <mark>42<u>45</u>)</mark>	44 ( <del>25<u>27</u>)</del>	( <del>112<u>153</u>)</del>

The group reviewed the documentation to be forwarded to ITU WP8F for the Revision 4 of Recommendation M.1457. The documents presented include the overview of the radio interface, for both FDD and TDD modes. The new extension bands (850MHz and 1.7/2.1 GHz for the US and 800MHz for Japan) are introduced. A preliminary list of the specifications to be provided was presented, and further modified with the comments from TSG T. The list may be further modified by TSG SA if this group believes that some other specifications are still missing (sec. 7.1.2)

Additional accompanying papers where presented and approved. After the comments from TSG SA, the set of documents will be sent for 3GPP PCG approval and then forwarded to ITU-R before 1<sup>st</sup> October.

Additional documents to be forwarded to ITU-R WP8F on the deployment of UTRAN in the 2500-2690 MHz bands (RP-030511), and on the co-existence of UTRA FDD and TDD in that same band (RP-030537) were approved and sent to 3GPP PCG (sec. 7.1.1)

A methodology for the handling of errors on Early UEs was presented by Vodafone for discussion (RP-030509). It was commented that any of the existing 3GPP working methods, and also other means like conference calls or dedicated reflectors, can be used depending on each particular problem. It was argued that establishing a tight and predefined procedure was undesirable.

There was a short discussion on the need to create tests for a 768kbps RAB, multicode. WG2 is tasked to study the issue (sec. 7.2.1)

### Release 99, Release 4 and Release 5

CRs were presented to correct an identified problem when a NodeB loses synchronization of its RL when in SofHO. The proposed CRs to 25.214 R99 and onwards add a recommendation for implementation of the NodeB, but it was found that a proper solution should be studied in WG3 (sec. 7.2.2)

It was noted that a number of LSs had been exchange between GERAN and RAN WG2 on Iur-g issues, which was found by many companies a very ineffective way of working. It was proposed that a single group handled the issue, GERAN being more likely as it is more affected, but companies where reluctant to let

RNC requirements be defined in that group. It is proposed that experts from both groups hold a session together (RP-030543).

On the "Out of Service Issue", a Rel-5 CRs mandating a single behaviour was presented. It was the subject of an informal vote after which is was rejected, so the allowed behaviours in R99 and Rel-4 are kept in Rel-5. The CR was however approved for Rel-6 (sec. 7.3.2.1)

A long discussion took place on the definition of the "Minimum UE capability class" (sec. 7.3.3). A CR was proposed, requiring the support of turbocoding in the downlink in that minimum class. It was objected that if any, it should be required in both downlink and uplink, but this lead to a debate on the actual need to define any kind of "minimum class". Finally, RAN WG2 will have to study the issue again on the basis of the last revision of the CR presented (RP-030552)

It was agreed to start the backwards compatibility for the changes on Rel-4 RRC protocol, and that WG3 will consider the same approach for the Rel-5 versions of its protocols (RP-030523).

### Release 6 and beyond

See Annex F for a summary of the Work Items under TSG RAN responsibility, including the changes of completion dates.

The Work Item "Improving Receiver Performance Requirements for the FDD UE" was finished. Additional work has been presented in WG4 under this WI, but finally considered to be out of its scope. Companies suggested that work on the area will be proposed in the future (sec. 8.1.2)

A first set of CRs has been approved to TS25.101, TS25.104 and TS25.141 for the introduction of the naming convention and frequency ranges of the new bands. (UMTS800, UMTS850, UMTS1.7/2.1) (sec. 8.1.4)

The Work Item "Improvement of RRM across RNS and RNS/BSS" is closed due to the lack of activity (sec.8.2.2)

The last CR under the WI " Open SMLC-SRNC Interface within the UTRAN to support UTRAN Rel-4 positioning methods" is presented, the Work Item is now finished (sec. 8.3.2)

TR25.992 v2.0.2 "MBMS; UTRAN/GERAN requirements" was presented and approved. It will be set under change control

TR25.803 v1.0.0 "S-CCPCH performance for MBMS" was presented for information. A Joint meeting with SA WG1 & WG2, RAN WGs and GERAN WG1 & WG2 for MBMS issues is under schedule. The invitation will be made available to RAN WGs (sec. 8.4).

The Study on "Improvement of inter-frequency and inter-system measurements for 1.28 Mcps TDD" is finished, with the conclusion that no additions to the specifications are required, the improvements discussed can be achieved with changes to the RNC implementation (sec. 8.10.3)

TR25.888 v2.0.0 " Improvement of inter frequency and inter system measurement for 1,28 Mcps TDD" is approved and put under change control.

The Study "Enhancements to OTDOA Positioning using advanced blanking methods" was closed since the last proposal presents a substantial change and instead of a new feature it can be considered an enhancement to existing IPDL method. Hence, it was agreed to continue the work under the basket WI "UE Positioning Enhancements" (sec. 8.10.9)

The Study on "Improved access to UE measurement data for CRNC to support TDD RRM" was finished and concluded on the creation on a WI with the same name. The associated TR25.801 v2.0.0 " Feasibility study for improved access to User Equipment (UE) measurement data for Controlling Radio Network Controller (CRNC) to support Time Division Duplex (TDD) Radio Resource Management (RRM)" was approved and set under change control (sec.8.10.8)

The following new WIs have been approved:

- "Improved access to UE measurement data for CRNC to support TDD RRM" (RP-030539). Work Task under the Block "Rel6 RRM optimization for Iur and Iub", responsibility WG3 and completion date March 2004
- "Enhancement of the support of network sharing in the UTRAN" (RP-030549). Building Block under the Feature "Network Sharing" from SA WG1. Responsibility RAN WG2 and completion date March 2004.

### 1 Opening of the Meeting

Francois Courau, TSG RAN chairman, opened the meeting at 9:00 on Monday 16<sup>th</sup> and gave the floor to Meik Kottkamp, from Siemens, who explained the meeting arrangements.

### 2 Approval of the Agenda

#### **RP-030376** Draft agenda meeting #21 (Chairman)

Francois Courau (Chairman) presented the agenda

Francois noted that out LS to TSG CN, T are presented linked to the contributions to ITU, these LS will be approved early in the meeting to be sent to these groups this week, so a slight modification in the order is required

The agenda was approved without further comments

### 3 Approval of the meeting report on TSG-RAN #20

#### **RP-030427** Revised draft report RAN meeting #20 (3GPP Support)

The report was approved without comments

### 4 Reminder for IPR declaration

The chairman made the following call for IPRs:

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

The members take note that they are hereby invited:

- ?? to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of the Technical Specification Group.
- ?? to notify the Director-General, or the Chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms (e.g. see the ETSI IPR forms <u>http://webapp.etsi.org/Ipr/</u>).

### 5 Chairman Report of meetings

### 5.1 TSG SA#20

Francois Courau (chairman) gave a brief summary of the issues in SA#20. He explained that the agreement was that Release 6 is not expected before March 2004. Also, he noted that none of the TSGs but RAN is changing R99 and Rel-4 anymore, all the corrections are implemented in Rel-5 or Rel-6. It was found that in

some cases RAN introduces a correction R99/Rel-4 and CN corrects its specs for the same reason only from Rel-5 onwards. TSG SA requested that some consistency should be applied, and asked TSG RAN to follow the approach of TSG CN.

### 6 Liaisons from other groups

### 6.1 Groups outside 3GPP

## RP-030468 Need for OMA Liaison with 3GPP and 3GPP2 re PoC (OMA Requirements WG, OMA-REQ-2003-0409r2\_LS to 3GPP-PP2 re PoC)

LS for information

## RP-030498 Liaison Statement on EC Requirements on Emergency Telecommunications (OCG EMTEL, EM04td014r2)

LS for information. Francois Courau (chairman) explained that the Technical Report attached contains the requirements identified by ETSI EMTEL, which mainly rely on the emergency call service already defined in GSM/3GPP. The requirements for the interfaces to the PSAP are not a matter of TSG RAN. The recommendation from the European Commission also attached contains the requirements for positioning for emergency calls, which currently states "best available with the existing technology". The LS is noted

#### RP-030499 LS on Signalling Requirements for IP Q0S (ITU-T SG16, LS03-16)

Joern Krause (3GPP support) explained that the LS has already been presented at RAN WG3, the WG concerned. The LS is noted

#### RP-030541 Consent of Q.2630.3, Q.2631.1, Q.2632.1 (ITU-T SG11, COM11-LS16)

The LS will be forwarded to WG3. The LS is noted

#### **RP-030542** Electronic Meeting on Signalling Requirements for IP-QOS (ITU-T SG11)

This is an invitation to an electronic meeting, it will be distributed on WG3 reflector. The LS is noted

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

# RP-030464 LS on Implementability of MBMS Requirements and Architecture (TSG GERAN, GP-031730)

Paolo Usai (3GPP support) presented this LS

Paolo noted that a joint meeting, with GERAN, SA and RAN WGs, is being scheduled on October 14<sup>th</sup> and 15<sup>th</sup> 2003 in Vienna. The LS was mainly of concern for SA WG1 and SA WG2, and informs of the limitations that can be faced for the implementation of MBMS on GERAN networks. The LS is noted.

## RP-030465 Reply to LS on Implementability of MBMS Requirements and Architecture, (GP031730) (TSG SA WG1, S1-030957)

The LS is noted. No actions required from TSG RAN

## RP-030466 Reply LS on Implementability of MBMS Requirements and Architecture (TSG SA WG2, S2-033219)

The LS is noted. No actions required from TSG RAN

#### RP-030467 LS regarding progress of work for MBMS User Services (TSG SA WG1, S1-031002)

The LS is noted. The chairman tasked RAN WGs to take into account the report attached when working on MBMS.

#### RP-030469 Reply LS on review of TR "Study into Applicability of GALILEO in LCS" (S2-031577) (TSG SA WG1, S1-030621)

The LS is noted. SA WG1 informs that no big change needs to be introduced in LCS stage 2 for the introduction of Galileo. The chairman commented that not many changes are expected in the UTRAN either.

### RP-030470 LS on TR 22.952, Priority Service Guide – request for review and comment (TSG SA WG1, S1-030935)

The LS is noted. RAN WGs are tasked to study the report and provide the appropriate comments to SA WG1.

### 6.3 TSG-RAN WGs

**RP-030471** LS on "out of service area" in CELL\_FACH state (TSG RAN WG2, R2-032028) Denis Fauconnier (WG2 chairman) presented this LS. The LS has been circulated in WG4 reflector for comments on the attached CR, but no answer has been presented so far. It is expected that interested companies present directly the CR to this RAN meeting, if it is not the case, it will have to be approved in next RAN WG4. The CR proposes a TBD that will need to be solved in the future anyway. The LS is noted

## **RP-030472** LS on RAN Work Item "Control of Remote Electrical Tilting Antenna" and possible impact on TSG SA 5 (TSG RAN WG3, R3-031247)

The LS is noted. No actions required from TSG RAN.

#### RP-030473 Liaison on "Introduction of Positioning Methods over Iu" (TSG RAN WG3, R3-031254)

The LS is noted. The required CRs are presented to this meeting

### RP-030474 Reply LS on the material to be submitted to ITU-R WP8F#11 for Revision 4 of Recommendation ITU-R M.1457 (TSG RAN WG4, R4-030833)

The LS is noted. No actions required from TSG RAN

RP-030475 Reply LS on "Proposed guidance to RAN4 on the LS on ITU-R draft new Report on mitigating techniques to address coexistence between IMT-2000 TDD and FDD within the frequency range 2.5-2.6 GHZ in adjacent bands and in the same geographical area" (TSG RAN WG4, R4-030851)

Howard Benn (WG4 chairman) presented this LS. The LS highlights that comments that WG4 had sent a while ago had not been incorporated to the ITU-R report. It is proposed that RAN sends again the comments and corrections, together with new comments, to ITU-R.

The following additional text, to be added to the LS to ITU, can be found in WG4 chairman's report, RP-030412:

## RAN 4 ask ITU WP8F to allow RAN 4 to review the IMT.MIT before it is officially approved by the ITU

Howard explained that the reason for requesting a second review is that there is a risk that the errors remain and, in the case the recommendation becomes ITU approved with the errors inside, 3GPP will have to take its (erroneous) requirements into account in its specifications. It was reminded that companies can try to ensure that the national representations in ITU WP8F take properly into account the comments in the LS. It was also noted that nothing stops WG4 to review the recommendation, but it is just a matter of timing between meetings.

Nicola Magnani (TiLab) noted that it would have been preferable to have explicit changes to the text, similar to change tracking in CRs, instead of comments in text form. This way of contributing will make difficult for WP8F to incorporate the suggestions to the text of the recommendation. Nicola commented also that it is the third-second time3GPP requests a review of that draft recommendation.

It is finally approved to include the statement in the LS, which will be sent to 3GPP PCG for approval. The final version to be approved by the PCG is in RP-030537.

It was noted that the LS was not editorially compliant with ITU usual procedures, and to avoid this situation in the future, it is recommended that all correspondence to ITU is at least cc to the ITU-R Ad Hoc

The following table lists the incoming LS treated in this meeting:

Tdoc	Title	Source	Source File
RP-030464	LS on Implementability of MBMS Requirements and Architecture	TSG GERAN	GP-031730
RP-030465	Reply to LS on Implementability of MBMS Requirements and Architecture, (GP031730)	TSG SA WG1	S1-030957
RP-030466	Reply LS on Implementability of MBMS Requirements and Architecture	TSG SA WG2	S2-033219
RP-030467	LS regarding progress of work for MBMS User Services	TSG SA WG1	S1-031002
RP-030468	Need for OMA Liaison with 3GPP and 3GPP2 re PoC	OMA Reqs WG	OMA-REQ-2003-0409r2
RP-030469	Reply LS on review of TR "Study into Applicability of GALILEO in LCS" (S2-031577)	TSG SA WG1	S1-030621
RP-030470	LS on TR 22.952, Priority Service Guide – request for review and comment	TSG SA WG1	S1-030935
RP-030471	LS on "out of service area" in CELL_FACH state	TSG RAN WG2	R2-032028
RP-030472	LS on RAN Work Item "Control of Remote Electrical Tilting Antenna" and possible impact on TSG SA 5	TSG RAN WG3	R3-031247
RP-030473	Liaison on "Introduction of Positioning Methods over lu"	TSG RAN WG3	R3-031254
RP-030474	Reply LS on the material to be submitted to ITU-R WP8F#11 for Revision 4 of Recommendation ITU-R M.1457	TSG RAN WG4	R4-030833
RP-030475	Reply LS on "Proposed guidance to RAN4 on the LS on ITU-R draft new Report on mitigating techniques to address coexistence between IMT-2000 TDD and FDD within the frequency range 2.5-2.6 GHZ in adjacent bands and in the same geographical area"	TSG RAN WG4	R4-030851
RP-030498	Liaison Statement on EC Requirements on Emergency Telecommunications	OCG EMTEL	EM04td014r2
RP-030499	LS on Signalling Requirements for IP Q0S	ITU-T SG16	LS03-16
RP-030541	Consent of Q.2630.3, Q.2631.1, Q.2632.1	ITU-T SG11	COM11-LS16
RP-030542	Electronic Meeting on Signalling Requirements for IP- QOS	ITU-T SG11	
RP-030546	LS to TSG RAN on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457	TSG T	TP-030221

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

#### **RP-030509** Working Procedure for Early UE handling (Vodafone)

Alan Law (Vodafone) presented this document

This document proposes a number of potential methods that can be applied when defining the working procedure in order to perform the Early UE handling in an efficient way.

Hashem Madadi (3) supported the proposal.

Han van Bussel (T-Mobile) warned that the period that takes more time is to get a clear understanding of the problem. There may be early signs, but problems need to be checked with multiple implementations in the UE and the network. Also, he warned against rushing on these issues, it is easy to come to a simple patch but a global solution that works for all implementations need to be thought carefully. He also opposed approval by email and reminded that the only place for approval of CRs in TSG RAN, which meets every 3 months, and this should be frequent enough.

Jean Davidian (DoCoMo) proposed to use conference calls to speed up the work.

Denis Fauconnier (Nortel) agreed that the procedures listed are possible, as well as conference calls and email discussions, but he preferred not to set a tight procedure now and to decide in each case which is the fastest and most convenient way.

It was also commented that it is preferable that the WGs, where the expertise resides, study the problems instead of discussing on a TSG RAN based email list. An Ad Hoc with the concerned WGs can also be used. Han commented that, as experience in GSM shows, most of the problems can be solved tackling the configuration of the networks, without need to change the specifications or to use the bitmap. Juan Antonio Moreno (Telefónica) noted that in some cases, a faster response than the 3 months period

between TSGs could be required.

Howard Benn (Motorola) commented that the cycle in the industry for providing updates is normally longer than the period between TSGs, due to the extensive testing required for any update. The current procedures in 3GPP are, in Howard's view, fast enough. The update process cannot be shortened at risk of producing malfunctioning solutions, which can be worse than the problem they try to solve.

As a summary, the chairman explained that all the means mentioned in the discussion are available to reach a quick but proven solution. As soon as the chairman is notified of a problem, he will contact the WGs chairmen to decide on the procedure to follow.

### 7.1 ITU-R Ad Hoc

#### 7.1.1 Activity Report

#### RP-030428 Status Report for RAN#21 (ITU-R Ad Hoc Contact Person)

Nicola Magnani (TiLab) presented this report

The document summarizes the procedure followed for the update and introduces documents below.

# **RP-030511** Possible contribution to ITU-R WP8F on the outcome of the feasibility study on the viable deployment of UTRA in additional and diverse spectrum arrangements (ITU-R AH contactperson)

Nicola Magnani (TiLab) presented this document

ITU R Ad Hoc proposes It was proposed to submit the whole TR25.889 to ITU WP8F as it is believed to be attractive information for the ITU-R recommendation M.1036. Meik Kottkamp (Siemens) agreed to send the complete TR, but suggested to incorporate a summary of the TR since it is unlikely that WP8F will go through the whole document. Finally, it was agreed to send the full report as is. The document is approved

#### RP-030537 COMMENTS ON ITU-R DRAFT NEW REPORT ON MITIGATING TECHNIQUES TO ADDRESS 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 (TSG RAN WG4)

This is a LS to ITU WP8F based on RP-030475. It is approved to send it to PCG for final endorsement.

7.1.2 Approval of documentation for update 4 for M.1457 and other ITU-R materials

#### RP-030429 Proposed update of Section 5.1.1 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)

This document contains the text description of the FDD technology, with the changes required to introduce the new bands highlighted.

The document is approved

#### RP-030430 Proposed update of Section 5.1.2 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)

The document contains tables for each <u>relevant</u> FDD RAN spec where the references and links from each SDO will be introduced. The tables are empty, but will be filled in May 2004 with references to <u>the version of the specifications as it will be agreed by OP (most likely</u> December 2003) <u>specifications</u>. It is suggested to introduce at this point a Rel-6 table for each and all of the specifications, and if an spec is not available in May the table will be left open. This was agreed as the way forward.

There were some objections to add the Rel-6 specifications, since ETSI, and probably the other SDOs, don't produce their versions of 3GPP specs for a new Release until it is formally frozen, and Rel-6 is not expected to be frozen before March hence the SDOs versions will not be available. This wasn't found a big issue, SDOs can produce a reduced set of Rel-6 specs for the purpose of presentation to ITU even if the whole Release is not frozen.

It was also argued that not all spec versions from all SDOs will be available for the tables. However, it is not essential that all SDOs publish all the specifications, what is crucial is that the version referenced is the same. The document is revised (RP-030526) to introduce a row for Release 6 for all the specifications listed.

#### **RP-030431** Proposed update of Section 5.3.1 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)

This document contains the text description of the <u>FDD-TDD</u> technology The document is approved

#### RP-030432 Proposed update of Section 5.3.2 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)

This document contains the empty tables for the TDD specifications. It will be revised to introduce a table for Rel-6 for all specs.

The document is revised (RP-030527).

#### **RP-030433** Proposed accompanying letter for the submission of the updated Global Core Specifications (GCS) (ITU-R Ad Hoc)

It is discussed whether the source of this document to ITU would be ETSI or a member. A revision is required to solve this, and also to correct the place of the WP8F meeting. It is agreed that the specifications from June, and not those arising from September 2003, will be included in the CDROM due to the lack of time. It is noted that the June specifications do not contain any reference or text related to the new bands, so it is agreed to take all June 2003 specifications and September 2003 Rel-6 of 25.101, 25.104 and 25.141. The document is revised (RP-030528)

#### RP-030434 Proposed Final Submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)

Revision is required, since the references in the annexes are to ITU-R Ad Hoc document and not RP documents.

The document is revised (RP-030529)

RP-030516	Proposed LS to TSG T on the documents to be considered for the Revision 4 of
	Recommendation ITU-R M.1457 (ITU-R AH Contact Person)
RP-030517	Proposed LS to TSG SA on the documents to be considered for the Revision 4 of
	Recommendation ITU-R M.1457 (ITU-R AH Contact Person)

# **RP-030518** Proposed LS to TSG CN on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457 (ITU-R AH Contact Person)

The intention of these LS is to ask TSG CN/T/SA if modifications to the list of specifications are required from their perspective.

A small correction is agreed, to remove the requirement to TSG T/CN/SA to inform of what specs have a Rel-6.

The revised LS are in RP-030530, RP-030531, RP-030532

**RP-030530** Proposed LS to TSG T on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457 (ITU-R AH Contact Person)

**RP-030531** Proposed LS to TSG SA on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457 (ITU-R AH Contact Person)

**RP-030532** Proposed LS to TSG CN on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457 (ITU-R AH Contact Person)

The LSs are approved

The chairman suggested that this kind of liaison with other TSG is done prior to the meeting for future updates, in order to have the comments ready for TSG RAN to approve the final version of the list of specifications.

# **RP-030435** Proposed reminder for the OP on the compliance with ITU-R procedures as it relates to Revision 4 of Rec. ITU-R M.145 (ITU-R Ad Hoc)

The document is revised (RP-030534) for editorial purposes.

#### RP-030436 Proposed updated information on the Roadmap (ITU-R Ad Hoc)

The document is approved.

<b>RP-030526</b>	Proposed update of Section 5.1.2 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)
<b>RP-030527</b>	Proposed update of Section 5.3.2 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)
<b>RP-030528</b>	Proposed accompanying letter for the submission of the updated Global Core
	Specifications (GCS) (ITU-R Ad Hoc)
<b>RP-030529</b>	Proposed Final Submission for updated UTRA FDD and TDD toward Rev. 4 of Rec.
	ITU-R M.1457 (ITU-R Ad Hoc)
<b>RP-030534</b>	Proposed reminder for the OP on the compliance with ITU-R procedures as it relates
	to Revision 4 of Rec. ITU-R M.145 (ITU-R Ad Hoc)

The documents are approved. They will be sent to for PCG approval once the TSG T, TSG CN and TSG SA provide the answers to the LS in RP-030530, RP-030531, RP-030532

# **RP-030546** LS to TSG RAN on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457 (TSG T, TP-030221)

TSG T is providing the list of specifications that were missing from the list that TSG RAN sent in RP-030530. This list will be taken into account for the revision of RP-030529. TS23.241, listed in the document, will not be available in Rel-6 in December, hence it will not be added.

TSG CN didn't provide any update to the list provided in RP-030532.

The LS is noted

<b>RP-030550</b>	Proposed update of Section 5.1.2 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)
<b>RP-030551</b>	Proposed update of Section 5.3.2 of Rec. ITU-R M.1457 (ITU-R Ad Hoc)

These revisions now list the specifications provided by TSG T. Further revisions may be necessary if TSG SA also provides new specifications to list.

### 7.2 WG1

# 7.2.1 Report from WG1 including report on actions required from the previous meeting

#### RP-030406 Status Report WG1 (RAN WG1 Chairman)

Dirk Gerstenberger (WG1 chairman) presented this report

RAN WG1 activity can be summarized as follows:

- No CRs for Rel99 FDD
- One CR for Rel99 TDD (related to GSM/1.28Mcps handover)
- No CRs for Rel4 FDD/TDD
- 13(FDD) + 1(TDD) correction & clarification CRs agreed for Rel5
  - smaller HSDPA corrections/clarifications, transport format detection, SIR measurement with beamforming, TDD PDSCH power control
- 1 CR for Rel6 (beamforming) agreed in two versions, depending on RAN3 solution
- SI on improvements of interfrequency and intersystem measurements for 1.28 Mcps TDD concluded (no specification changes needed)
- RAN1#33 took place in New York City, August 25-29
- Around 100 delegates attended RAN1#33
- More than 300 contributions submitted to RAN1#33
- Around 70% of the time used for Rel'6 discussions

On slide 20, Dirk explained that "baseline" refers to the Rel-5 layer 1. If the layer 1 is not changed for MBMS, the results will be the same as in Rel-5.

There was some surprise on the R99 CR for 1.28Mcps as noted on slide 2. Dirk corrected that it is actually related to High Chip Rate.

On slide 20, it is commented that PCE was presented to replace Point to Point TX, not Point to Multipoint. Phil Brown (TSG T WG1 chairman) noted that , on the 768kpbs RAB on slide 6, the LS hasn't been received by T1 yet. However, there are no CRs for the introduction of the RAB for next T WG1 meeting and he questioned which group in RAN has the responsibility to add new RABs to 34.108. Denis Fauconnier (WG2 chairman) explained that the reason to add that particular RAB is to test multicode transmission, and for that matter the test to cover 384 kbps multicode should be added first. In any case, it is still under discussion in WG2. Antti Toskala (Nokia) clarified that by now two contradicting LS have been sent to T WG1, so at least a clarification from TSG RAN shall be issued at this meeting. Antti also commented that if companies in T WG1 are willing to produce a test case, they shouldn't be stopped. It was noted that WG4 has currently no performance requirements for multicode UEs, it might be convenient to have these requirements before the tests. Antti clarified that these are functional tests, not directly related to performance. It was agreed to incorporate the 768kbps RAB to the specifications, and WG2 is tasked to decide whether to incorporate it in TR25.993 or TS34.108

Jean Davidian (DoCoMo) noted that the issue of power control raised in slide 10 for Rel-5 may as well affect earlier releases. Dirk agreed that earlier UEs should behave properly, but recommended to look at the related CRs to understand the change proposed.

Edgar questioned about the work frame for the future work on OTDOA. Dirk suggested to close the current activity and start a new WI/SI for the new proposal. See section 8.10.9

#### RP-030407 List of Agreed CRs (RAN WG1)

This list is presented for information

### 7.2.2 Discussions on decisions from WG1

# RP-030522 CR 25.214-332r1 (R99) 334 (Rel-4) 335 (Rel-5) , "UL Synchronization" (Qualcomm, Nokia)

Serge Willenegger (Qualcomm) presented these CRs.

Although it is bound for objections, Serge remarked that the note, or other clarification text, is required in R99. This was also the view of Nokia. Some network vendors objected these arguments and failed to see the need for R99.

A different approach was suggested, either convert the note to a normative text and keep it in R99 or to introduce the note as is in Rel-5 or Rel-6.

Finally it is agreed to create a new informative annex in 25.214 providing this information in the Rel-5 and onwards. The CRs are not agreed, CR335 to Rel-5 is revised (RP-030544).

#### RP-030544 CR 25.214-335 (Rel-5), "UL Synchronization" (Qualcomm, Nokia)

Serge Willenegger (Qualcomm) presented this CR.

Said Tatesh (Lucent) objected that the note is not required, NodeB vendors are supposed to produce wise implementations and do not fall in such errors. He also noted that the NodeB cannot know that the UE is in soft HO, so it cannot take the action suggested in the note, which is meaningless for a NodeB implementator. Antti Toskala (Nokia) noted that the CR is not solving completely the problem identified, but helps produce better implementations.

Said agreed with Nokia and Qualcomm that there is a problem to be solved, but this note doesn't help. He proposes that WG3 studies the issue and produces the necessary CRs for a real complete solution.

There was a debate on the need to include this note if WG3 is going to study the issue and produce a full solution. WG3 may take some time and agree on Rel-6 CRs and not Rel-5. There was also the fear that WG3 will not produce a solution and rely on this note in WG1 specs, but this was discarded as companies were willing to work on the topic.

Some companies raised the concern of the impact on terminal operation of the network malfunction identified. Antti explained that if the network behaves incorrectly, some terminal manufacturers may decide to implement a proprietary solution to avoid the potential lost calls due to this NodeB flaw. It was however noted that the UE should not speculate with the fact that a NodeB has or has not lost the RL, it shall simply follow what is written in the specs.

#### RP-030547 CR 25.214- 335 (Rel-5) , "UL Synchronization" (Qualcomm, Nokia)

Serge Willenegger (Qualcomm) presented this CR.

This revision answers the concerns of Lucent and Samsung on the fact that the NodeB is not aware of the number of RLs.

However, as it is generally agreed that this doesn't fully fix the problem, WG3 is tasked to study the issue and report back to TSG RAN

The CR is approved

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

#### RP-030476 CRs (R'99 and Rel4/Rel5 category A) to TS 25.224 (RAN WG1)

There were some concerns on the cover page, the R99 refers to 1.28 Mcps which is very misleading. It is agreed to revised the cover page for the R99 CR, the Rel-4 and Rel-5 versions are approved. CR123r1 R99 is revised, CR124r1 and CR125r1 are approved

# **RP-030533** Revision of **R99** CR to 25.224 in **RP-030476**, DTX and Special Bursts in case of no data on S-CCPCH and Beacon Channels (Siemens)

The CR is approved

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

No documents

### 7.2.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG1:

Tdocs	Title	Decision
RP-030456	CRs (Rel-5) to TS 25.212	Approved 1)
RP-030457	CRs (Rel-5) to TS 25.213	Approved
RP-030458	CRs (Rel-5) to TS 25.214	Approved
RP-030460	CRs (Rel-5) to TS 25.224	Approved

1) On CR180r3 to 25.212, the category was objected. C means new feature, but no new features can be introduced to Rel-5. The change is however believed to be the modification of a feature, so it proposed to postpone it to Rel-6. After some discussions, the CR is approved as it is.

# 7.2.6 Approval of linked CRs where the leading one originated from WG1

# RP-030462 Linked CRs (Rel-5) to TS 25.211(RAN1), TS 25.214 (RAN1) and TS 25.331 (RAN2) on Removal of the combination of TxAA Mode 1 with HS-SCCH (RAN WG1)

No comments. The CRs are approved

- 7.3 WG2
- 7.3.1 Report from WG2 including report on actions required from the previous meeting

#### RP-030408 Status Report WG2 (RAN WG2 Chairman)

Denis Fauconnier (WG2 chairman) presented this report Main activities since last RAN Plenary:

- Release 99 corrections
  - Occupied 2 (down from 3) days of last meeting, number of CRs is stable. However size of each of the CRs is very small
- Release 4 corrections
  - Very few
- Release 5
  - Few HSDPA corrections
  - Some other R5 corrections
  - Completion of GERAN Iu mode (last R5 item)
- Release 6
  - RAN2 and RAN3 progressing now in parallel, well synchronised
  - Many contributions on MBMS
  - Activity starting (slowly) on IMS, decision on Iupc, some TEIs.

Hashem Madadi (3) showed a general concern on the high number of R99 CRs, which in 3's view are not essential. He also required that some more time is allocated for MBMS discussions in the forthcoming WG2/WG3 meetings, he offered also to host an MBMS Ad Hoc. It was clarified that 3 days should be dedicated to MBMS for the next meeting and that an ad hoc on MBMS is already schedule with other groups mid October.

Antti Toskala (Nokia) noted that long discussions took place in WG2 on the long LS exchange between GERAN and RAN WG2 on the Iurg, which do not appear on the report. Denis explained that there has been a request from GERAN to decode CSN.1 messages on the RNC for the Iurg, and RAN WG2 didn't agree on that. Antti expected a better coordination between the groups, but Denis noted that the LSs coming from GERAN seem to be originated by just one company and have not the support of other participants, at least when presented in RAN WG2. In general, it seems that coordination between TSGs is required, so the chairman will include this issue in his report to SA.

#### RP-030409 List of Agreed CRs (RAN WG2)

This list is presented for information

### 7.3.2 Discussions on decisions from WG2

# RP-030478 The elimination of the EPC mechanism: 25.322 and 25.331 R'99 CRs (with linked Rel-4/Rel-5 CRs) (RAN WG2)

The CRs in this document have been technically endorsed by WG2. Ericsson had raised some concerns on this removal but after in house checking it agreed with the removal. Ericsson and the chairpersons encouraged companies to remove options found unnecessary.

The CRs are approved

# RP-030543 Proposed way forward with the Iur-g discussion between GERAN and RAN WG2 (Nokia)

Antti Toskala (Nokia) presented this document

The documents proposes that GERAN being the group in charge with the Stage 2 as well as foreseen to be more impacted with the requested change than the TSG RAN specifications, it is suggested that issues is asked to be revisited in GERAN and that TSS RAN WG2 is to be informed of the outcome and .is to be tasked to follow the decision of the GERAN on the issue. This ensures that the issue is solved in single place and the chain of sending liaison statements back and forth is finalised.

Per Beming (Ericsson) agreed that a single place for the discussion is preferred, as well as avoiding the LS exchange, but requested that RAN WG2 views are properly considered and to make it clear in GERAN that CSN.1 decoding shouldn't be required in RNC.

Howard Benn (Motorola) reminded that the discussion is not finished in GERAN and other options are still being considered there. Antti agreed, but remarked that his intention is simply to have one place for discussion, no consideration over other options is raised.

ARIB requested that SDOs that have so far not participated in GERAN are allowed to take part in this discussion and, eventually, to vote as this affects UTRAN. Antti reminded that Iurg implications exclusively affects networks with a GSM and an UTRAN part, it has no effect on UTRAN-only networks.

Since there was reluctance to take a decision affecting RNC in a group outside UTRAN, it was finally agreed to hold a joint session between GERAN and RAN WG2 with the clear mandate to come to a conclusion on the Iur-g discussion. The Ad Hoc shall review the mechanism to convey information between the two types of equipment and propose the result of the agreement for endorsement by TSG RAN and TSG GERAN

On a different topic, Meik Kottkamp (Siemens) reminded the SFN-SFN type 2 measurement discussion hold in last TSG RAN. Since the SFN-SFN type 2 measurement has been agreed to be optional for Rel5 during this meeting, Siemens is planning to contribute to RAN2 on mandatory support of alternative measurements in Rel5. One example may be the UE Tx-Rx measurement

#### 7.3.2.1 Out of Service discussions

Denis Fauconnier (WG2 chairman) made a brief presentation of the situation. RP-030479 has been technically endorsed by WG2, it proposes to remove the option of releasing the RRC connection when the UE does not try to make a random access, as has been agreed for Rel-6.

It is remarked that the issue was discussed in last TSG SA plenary, where it was proposed that no functional changes should be approved to Rel-5. This is the approach followed by other TSG but not by TSG RAN. Edgar Fernandes (Motorola) warned that the issue is very much linked to CN specifications, TSG CN is paying special care in not modifying Rel-5 functionality. This was contested by Per Beming (Ericsson), the joint session RAN-CN in last TSG left clear that there is no link to CN specifications in this issue, it is purely a RAN discussion.

One of the proposed ways forward is to add a note in Rel-5 indicating that the recommended behaviour is to release the connection and that Rel-6 actually mandates such behaviour.

# RP-030479Maintaining the RRC connection while "emergency camped" on an F-PLMN during<br/>Out Of Service: 25.331 R'99 CRs (with linked Rel-4/Rel-5 CRs) (RAN WG2)

This document contains a CR technically endorsed by WG2 to remove the option in Rel-5.

### **RP-030524** Discussion on removing the RRC connection releasing option while emergency camped on a F-PLMN during Out Of Service (Vodafone)

This document supports to remove the option. Motorola requested if Vodafone could provide some results to indicate their concerns in terms of the extra load. It is noted that the results haven't been presented and contrasted.

## RP-030521 Releasing RRC connection when emergency camp (Motorola, Qualcomm, NEC, Panasonic)

This document supports not to change Rel-5.

It is remembered that, in any case, it was approved in last meeting to have one behaviour for Rel-6.

To resolve between the faced up positions, a show of hands was required on the two following questions: Does your company support the CR in RP-030479?

As a result, there was no clear majority (71%) supporting or opposing the CR, hence the supporters of the CR withdrew their position.

Does your company support adding a note in Rel-5 indicating a recommended option (the same selected for Rel-6)?

As a result, there was no clear majority (71%) supporting or opposing to add the note, hence a CR introducing that change will not be proposed.

As a conclusion, the CR in RP-030479 is not approved, and a Rel-6 CR, technically identical to this one, will be presented.

#### RP-030548 Maintaining the RRC connection while "emergency camped" on an F-PLMN during Out Of Service: 25.331 Rel-6 CR (Vodafone)

This CR is technically the same as RP-030479, but it is intended for Rel-6. It is presented for approval, but it will not be implemented until December to avoid the maintenance of a new release of 25.331 for another 3 months.

The CR is approved.

# 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 WG2:

Tdocs	Title	Decision
RP-030480	25.302 R'99 CRs (with linked Rel-4/Rel-5 CRs)	Approved
RP-030481	25.305 R'99 CRs (with linked Rel-4/Rel-5 CRs)	Approved
RP-030482	25.306 R'99 CRs (with linked Rel-4/Rel-5 CRs)	Approved 2)
RP-030483	25.322 R'99 CRs (with linked Rel-4/Rel-5 CRs)	Approved
RP-030484	25.331 R'99 CRs - Set 1 (with linked Rel-4/Rel-5 CRs)	Approved 3)
RP-030485	25.331 R'99 CRs - Set 2 (with linked Rel-4/Rel-5 CRs)	Approved
RP-030486	25.331 R'99 CRs - Set 3 (with linked Rel-4/Rel-5 CRs)	Approved 4)
RP-030488	25.921 R'99 CRs (with linked Rel-4/Rel-5 CRs)	Approved
RP-030489	25.993 CRs - Version 6.2.0 affecting the R'99	Approved 5)
RP-030501	25.321 R'99 CRs (with linked Rel-4/Rel-5 CRs) (RAN WG2)	Approved
RP-030504	Reconfiguration with state transition to an indicated cell on a different frequency: 25.331 R'99 CRs (with linked Rel-4/Rel-5 CRs) (RAN WG2) 6)	Not approved 6)
RP-030505	Radio link failure during reconfiguration procedure: 25.331 R'99 CRs (with linked Rel-4/Rel-5 CRs)	Approved 7)

2) On CR79 to 25.306, "Definition of minimum UE capability class", Per Berning (Ericsson) noted that this change to the minimum capability is only to the downlink and noted that the same change should be applied to uplink capability. Per proposed to have it mandatory either in both links or none. Antti Toskala (Nokia) objected any last minute decision on the uplink, the changes to the downlink are agreed in WG2, but for the uplink they should be reviewed by the experts before approval in RAN. Antti also questioned if WG1 had been contacted for the changes to the values of TDD physical parameters. It doesn't seem to be the case. After checking, it is clarified that the TDD part is correct.

Denis clarified that the "minimum UE capability" is defined in 34.108, it means the minimum requirements for an UE to attach to a 3GPP network.

Per Beming proposed to either make the minimum class based on the 32kbps on the dedicated and the common channels or to leave it as is, based on simple speech service. Per requested that if the minimum class requires turbocoding, it should be both in uplink/downlink, and not only in the downlink. Antti opposed linking the turbocoding in the downlink and the uplink for him the argument presented, the fact that the UE hardware is the same and can be reused, is not valid as this is very much depending on the implementation of the UE. And UEs with turbocoding on one link and not on the other can be envisaged in the future for certain applications.

The main argument for requiring turbocoding in the minimum class is to ensure that all UEs would be able to decode the SCCPCH if the operator decides to use turbocoding on that channel. If the UE doesn't support turbocoding, its implementation should be smart enough to detect that turbocoding is used.

A possibility is to base the minimum capability on the requirements for the signalling channel in SCCPCH, CRs are presented in RP-030552 accordingly. Concerning the actual CRs in this document, CR79, CR80 & CR81 to 25.306 are not approved, the rest of CRs are approved.

3) The changes in CR2010, CR2011, CR2012 are included in the CRs in RP-030506 from Qualcomm CR2001, CR2002, CR2003 are revised in RP-030520 from Ericsson. The rest of the CRs in RP-030484 are approved

4) CR2058, CR2059, CR2060 are linked to the discussion in 2) above and revised in RP-030552. The rest of CRs in RP-030486 are approved

6) The 3 CRs are revised in RP-030506

5) It is clarified that the CRs are related to R99 but the spec is release independent and its current version is 6.2.0, that is the reason for the apparent inconsistency. CR11 is linked to the discussion on minimum capabilities, whose final result was that WG2 will have to study the issue again. Hence, CR11 is not approved. CR13 is approved

7) RIM raised some concerns on the R99 CR, as being very late for the current implementation. Finally, the CR is approved, but RIM noted that comments will be presented in next WG2 meeting

## RP-030552 Revision of CRs in RP-030486 on Corrections for minimum UE capability class (Ericsson)

Per Beming (Ericsson) presented these CRs. This document contains CR2058r2, CR2059r2 & CR2060r2 to 25.331. It is objected that the text proposed is a note but however it is stated with a "shall". Siemens objected also that these versions presented are very much different to the first proposal agreed in WG2 and recommended to send the discussion back to there. Based on the note presented in these CRs, WG2 is tasked to agree on a new solution.

The CRs are not approved

RP-030506 Revision of CR1998, CR1999 and CR2000 (R99, Rel-4 & Rel-5) to 25.331 on "Reconfiguration with state transition to an indicated cell on a different frequency" (Qualcomm)

This is a revision of CR1998, CR1999, CR2000 in RP-030504 The CRs are approved.

## RP-030520 Proposed CR2001r2, CR2002r2, CR2003r2 to 25.331 "START calculation in connected mode" (Ericsson)

This is a revision of CR2001r1, CR2002r2, CR2003r2 in RP-030484 The CRs are approved

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

The following documents contain CRs agreed by RAN WG2:

Tdocs	Title	Decision
RP-030490	25.322 Rel-4 CRs (with linked Rel-5 CRs)	Approved
RP-030491	25.331 Rel-4 CRs (with linked Rel-5 CRs)	Approved

### 7.3.5 Approval of independent CRs to Release 5

C	C	•	
Tdocs		Title	Decision
RP-030492	25.302 Rel-5 CR		Approved
RP-030493	25.306 Rel-5 CR		Approved
RP-030494	25.321 Rel-5 CRs		Approved 8)
RP-030495	25.331 Rel-5 CRs		Approved

25.993 CRs - Version 6.2.0 affecting the Rel-5

The following documents contain CRs agreed by RAN WG2:

25.922 Rel-5 CRs

RP-030496

RP-030497

8) CR175 to25.321 is approved, CR174 to the same specification is actually linked to some WG3 CRs, the cover sheet will be revised to reflect this and the CR presented again in RP-030536

Approved

Approved 9)

9) The CR in RP-030497 completed the transfer of the contents of 25.893 to 25.993. It is therefore agreed to close and end the support of 25.883

# 7.3.6 Approval of linked CRs where the leading one originated from WG2

#### RP-030502 Scrambling code & phase reference combinations for HS-DSCH (solution 1): 25.331 and 25.213 Rel-5 CRs (RAN WG2)

#### RP-030503 Scrambling code & phase reference combinations for HS-DSCH (solution 2): 25.331 CR (RAN WG2)

RP-030503 is a CR to 25.331 agreed in WG2, the CRs in RP-030502 present an alternative solution, endorsed in WG2, that implies a change to 25.213 as well

Evelyn Lestrat (Nortel) clarified that the CR to 25.213 is forcing that if a secondary scrambling code is used, a second CPICH with that scrambling code has to be used, and UE will have to use it for phase reference.

This second CPICH cannot be beamformed, in Nortel's view it is considered a waste of power and unnecessary. Denis explained that without the CR, the UE would have to measure two scrambling codes, that is the reason for UE manufacturers to introduce the CR.

It seems that at WG1 level, it remains to be seen if there is a problem with the fact that the UE has to measure on a scrambling code but has the DL HS channels on other scrambling code. This has to be further discussed

at WG1, and probably there is an impact on WG4 performance specs. It was requested that interested companies should provide contribution for the next meetings of the different WGs involved

Since the linked CRs in RP-030502 couldn't be approved, CR2066 in RP-030503, which had been agreed in WG2 and corrects an independent error, is approved.

### 7.4 WG3

# 7.4.1 Report from WG3 including report on actions required from the previous meeting

#### **RP-030410** Status Report WG3 (RAN WG3 Chairman)

Alexander Vesely (WG3 chairman) presented this report The following point summarize WG3 activity since last TSG RAN:

- The amount of R99 & Rel4 CRs is low
  - 3 R99 CRs
  - 6 Rel-4 CRs (3 cat. A, 3 cat F)
  - 44 Rel-5 CRs (6 cat.A, 37 cat. F, 1 cat. B) (16 CRs on HSDPA)
  - 4 Rel-6 CRs (3 cat.A, 1 cat.C)
  - Complete list of CRs in RP-030411
- R99 +mirror CRs required less than 20% of meeting time
- last major HSDPA issue closed
- Progress on RAN3 Rel-6 topics is satisfying

#### RP-030411 List of all agreed/technically correct RAN3 CRs for RAN #21 (RAN WG3)

This list is presented for information

### 7.4.2 Discussions on decisions from WG3

No discussions.

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

#### RP-030437 CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.413 on Essential Correction of Iu Release Request (RAN WG3)

The CRs are approved

- 7.4.4 Approval of independent CRs to Release 4 with linked CRs to Release 5
- **RP-030438** CRs (Rel-4 and Rel-5 Category A) to TS 25.419 on Correction of number of broadcast to be reported (RAN WG3)

The CRs are approved

### 7.4.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG3:

Tdocs	Title	Decision
RP-030439	CRs (Rel-5 only) to TS 25.413	Approved
RP-030440	CRs (Rel-5 only) to TS 25.423	Approved
RP-030441	CRs (Rel-5 only) to TS 25.433	Approved
RP-030442	CRs (ReI-5 only) to TS 25.453	Approved

# 7.4.6 Approval of linked CRs where the leading one originated from WG3

The following documents contain CRs agreed by RAN WG3:

Tdocs	Title	Decision
RP-030443	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 and TS 25.433 on Corrections to Tx Diversity	Approved 10)
RP-030444	CRs (ReI-4 and ReI-5 Category A) to TS 25.423 and TS 25.433 on "On Modification" and "Periodic" reporting alignment for Information Exchange procedures	Approved
RP-030445	CRs (Rel-5 only) to TS 25.413, TS 25.419, TS 25.423, TS 25.433 and TS 25.453 (Rel-5 and Rel-6 Category A) on Alignment of title and sub-clause text of chapter 10.3.4.2	Approved
RP-030446	CRs (ReI-5 only) to TS 25.413, TS 25.419, TS 25.423, TS 25.433 and TS 25.453 ( ReI-5 and ReI-6 Category A) on Removal of the note in chapter 10	Approved
RP-030447	CRs (ReI-5 only) to TS 25.423, TS 25.427 and TS 25.433 on Coordination with RRC about the TFS of DL DCH for HS- DSCH	Approved
RP-030448	CRs (Rel-5 only) to TS 25.424, TS 25.426 and TS 25.434 on Handling of maximum bit rate exceeding 2048kbit/s	Revised 11)
RP-030449	CRs (Rel-5 only) to TS 25.423, TS 25.433 and TS 25.331 (RAN2) on HS-DSCH Priority Queue to Modify	Approved
RP-030450	CRs (Rel-5 only) to TS 25.423, TS 25.433 and TS 25.321 (RAN2) on MAC-hs Reordering Buffer Size	Revised 12)
RP-030451	CRs (ReI-5 only) to TS 25.423 and TS 25.433 on Discard timer signalling for HSDPA	Approved
RP-030452	CRs (Rel-5 only) to TS 25.423, TS 25.433 and TS 25.215 (RAN1) on Phase Reference Signalling Support	Approved
RP-030453	CRs (Rel-5 only) to TS 25.423 and TS 25.433 on HS-DSCH information usage description clarification	Approved

10) Nokia argued that the R99 CR is not further needed, since there is no link to WG1 CRs anymore. Alex suggested that the R99 is still needed for regulatory reasons. Evelyn Lestrat (Nortel) clarified that there has never been a linkage to WG1 CRs, since these WG3 CRs are aligning with text that have been in WG1 specs for a long time as agreed and requested during the last TSG RAN plenary. All CRs are finally approved

11) An error was identified and agreed after approval in WG3. A revision is provided by NEC in RP-030507.

12) The CRs are linked to a WG2 CR. A revision to the cover sheets is necessary to reflect this (RP-030536).

## RP-030507 Revised CRs (Rel-5 only) to TS 25.424, TS 25.426 and TS 25.434 on Handling of maximum bit rate exceeding 2048kbit/s (NEC)

These CRs are revised in RP-030538

# RP-030538 Revised CRs (Rel-5 only) to TS 25.424, TS 25.426 and TS 25.434 on Handling of maximum bit rate exceeding 2048kbit/s (Siemens)

The CRs are approved

RP-030536 CRs (Rel-5 only) to TS 25.423, TS 25.433 and TS 25.321 (RAN2) on MAC-hs Reordering (RAN WG3)

The CRs are approved

7.5 WG4

# 7.5.1 Report from WG4 including report on actions required from the previous meeting

#### RP-030412 Status Report WG4 (RAN WG4 Chairman)

Howard Benn (WG4 chairman) presented this report

The activity in WG4 can be summarized as follows:

- 1 RAN WG4 meeting after the last RAN meeting
- Usual number of delegates (around 80),
- 195 input contributions (finished 1 day early)
- Corrections to the specification (cat B & F numbers)
  - Release 99 1 CRs
  - Release 4 7 CRs
  - Release 5 6 CRs
  - Release 6 12 CRs
- There will be one WG meeting before the next plenary.
- Actions from last TSG RAN:
  - Review MIMO WI: Still no agreement on the use of advanced receivers for MIMO with in RAN 4
  - Galileo: Report presented for information, no comments made but it will be taken into consideration in the A-GPS work

Hashem Madadi (3) asked for clarification on the A-GPS WI, on possible different types of terminals. Howard commented that the work has just started, exactly under the scope of the WI, no decision has been adopted on terminal classes or types.

Said Tatesh (Lucent) clarified that the discussion in WG4 on MIMO and advanced receiver was on defining test cases for HSDPA advanced receivers, but it was not part on the agreement to use advanced receiver to set performance requirements. Evelyn Lestrat (Nortel) commented that WG1 is working on the assumption that some kind of performance requirements will be set for advanced receivers. It was commented that nothing stops future work on this, although the current WI sheets do not require it.

Hashem warned about the new bands and repeated the concerns on the possible use of the technology in those bands but out of the intended regional areas. Ii was clarified that the specifications clearly state the region of application.

The chairman asked when would be finished the work on repeaters needed for European regulation. Howard explained that 3 or 6 additional months are required, ETSI TFES had been liaised for information on this delay.

#### RP-030413 List of Agreed CRs (RAN WG4)

This list is provided for information

### 7.5.2 Discussions on decisions from WG4

No discussions

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

## **RP-030415** CRs (R'99 and Rel-4/Rel-5/Rel-6 Category A) to TS 25.101 (RAN WG4) The CRs are approved

# RP-030540 R99, Rel-4, Rel-5 & Rel-6 CELL\_DCH to CELL\_FACH/CELL\_PCH/URA\_PCH transition when suitable UTRA cell is not found (Nokia)

These CRs are linked to the discussion on the LS in RP-030471. The CRs are approved

# 7.5.4 Approval of independent CRs to Release 4 with linked CRs to Release 5

### **RP-030416** CRs (Rel-4 and Rel-5 Category A) to TS 25.123 (RAN WG4)

The CRs are approved

### 7.5.5 Approval of independent CRs to Release 5

The following documents contain CRs agreed by RAN WG4:

Tdocs	Title	Decision
RP-030417	CRs (Rel-5 and Rel-6 Category A) to TS 25.101 under WI "High Speed Downlink Packet Access"	Approved
RP-030418	CRs (Rel-5 and Rel-6 Category A) to TS 25.101 under WI "TEI5" (	Approved
RP-030419	CRs (ReI-5) to TS 25.106 & TS 25.143 (Repeaters specifications) on "Correction of naming of frequency bands and operating band. Introduction of pass band"	Approved
RP-030420	CRs (Rel-5 and Rel-6 Category A) to TS 25.133 under WI "TEI5"	Approved

# 7.5.6 Approval of linked CRs where the leading one originated from WG4

No contributions

8 Release 6 and beyond: Status update and approval of CRs, reports

**RP-030519 RAN WIs and SIs, active and historic (3GPP Support)** 

Presented for information

- 8.1 Radio Interface Improvement Feature (RAN)
- 8.1.1 Improvement of inter-frequency and inter-system measurements

# **RP-030377** Status Report for WI Improvement of inter-frequency and inter-system measurement (Rapporteur, Nokia)

Antti Toskala (Nokia) presented this report

Antti explained that there had been discussions on WG3 on the usefulness of this feature since it will only benefit to Rel-6 terminals when there is a massive deployment of Rel-6 terminals.

The impact in WG1 specs seems to be very low, a couple of lines, but the impact on RNC is still under discussion. Alex Vesely (Siemens) explained that it had not been clear in WG3 that the feature brings benefits. It was questioned if WG2 specs wouldn't be affected. Antti clarified that the impact would be due to the modifications in WG3, but minor.

The completion date is changed to March 2004

# 8.1.2 Improving Receiver Performance Requirements for the FDD UE

# **RP-030378** Status Report for WI Improving Receiver Performance Requirements for the FDD UE (Rapporteur, Intel)

Howard Benn (WG4 chairman) presented this report

Reference 2 in this report is incorrect, it should be R4-030736.

It had been proposed in WG4 to have a new model of inter-cell interference in the performance test, but if was finally considered out of the scope of this WI. It was argued in this meeting that the use of a new model would improve the requirements, but this was controversial.

Edgar Fernandes (Motorola) clarified that the new model had been discussed, but it is unclear whether it is a more realistic scenario or not compared to the current tests.

WG4 proposes to close this WI, this is agreed by the meeting. Vodafone noted that it expects to produce more work in the area, and since there had been some proposals inside this WI that were finally not accepted, it is expected that new WIs will be presented in the future.

### 8.1.3 UMTS 850

#### **RP-030379** Status Report for WI UMTS-850 (Rapporteur, Cingular)

Don Zelmer (Cingular) presented this report.

Don clarified that the simulations are being performed in T1P1.2, but the documents are reviewed in RAN WG4 in any case.

The report is noted.

### 8.1.4 DS CDMA Introduction in the 800MHz Band

# RP-030380 Status Report for WI DS-CDMA introduction in the 800 MHz band (Rapporteur, NTT DoCoMo)

Takehiro Nakamura (NTT DoCoMo) presented this report Completion date is changed to December 2003. The report is noted.

# RP-030422 CRs (Rel-6) to TS 25.942 on "Methodology for coexistence studies of UTRA FDD with other radio technologies" (RAN WG4)

Hashem Madadi (3) had a concern on the statement "other radio technologies" and requested a clear link to the UMTS850 WI and a clear statement that it applies to the particular regions. Howard Benn (WG4 chairman) clarified that the WI acronym on the cover page is enough clarification on this sense. It is commented that the correct name of <u>IS95-1X</u> is cdma2000, this is relevant since specifications can be found for cdma2000 and not for <u>IS951X</u>.WG4 is tasked to correct the references and to point to the appropriate 3GPP2 specifications.

The CR is approved

# RP-030421 CRs (Rel-6) to TS 25.101, TS 25.104 & TS 25.141 for the introduction of the new bands naming convention (RAN WG4)

These CRs are revised in RP-030515

#### RP-030514 Revised CRs for DS-CDMA introduction in the 800 MHz band (ARIB)

Takehiro Nakamura (NTT DoCoMo) presented this document

Jussi Numinnen (Nokia) questioned if this frequency allocation is a firm belief in ARIB or more band could be allocated in Japan. Takehiro explained that the assumption in ARIB is that only the 10 MHz proposed would be allocated for the time being, although in a longer term more frequency could be assigned. The document is noted

## **RP-030515** CRs (Rel-6) to TS 25.101, TS 25.104 & TS 25.141 for the introduction of the new bands naming convention (ARIB)

Takehiro Nakamura (NTT DoCoMo) presented these CRs

The previous versions of the CRs included the Japanese band in brackets, the brackets are removed. Also, a note under the bands table is added clarifying that Band VI is for Japan only.

The reason for adding all the bands at this point is for WG4 to have a clear picture of the bands, although the rest of the work on the three WIs is still to be done and hence a number of CRs to these and other

specifications are expected in December 2003 and March 2004

The CRs are approved

### 8.1.5 UMTS 1.7/2.1 GHz

**RP-030381** Status Report for WI UMTS 1.7/2.1 GHz (Rapporteur, Nokia) Jussi Numminen (Nokia) presented this report No comments, the report is noted

### 8.2 RAN Improvement Feature

#### 8.2.1 Radio access bearer support enhancement

#### **RP-030414** Status Report for WI RAB support enhancement (Rapporteur, Ericsson)

Antti Toskala (Nokia) presented this report

The new rapporteur is Juha Mikola, Nokia

It is commented that new Work Items should be created for each of the topics listed in the report. Denis Fauconnier (WG2 chairman) clarified that although only one contribution could presented in WG2 due to the lack of time, it summarized all the others; the work has started and contributions from more companies are expected. Denis explained that the activity in WG2 should be oriented to producing tests and specifying RABs for the use of existing features, like ROHC.

The report is noted.

### 8.2.1.1 Iu enhancements for IMS support in the RAN

#### **RP-030382** Status Report for WI Iu enhancements for IMS support in RAN (RAN WG3)

Alex Vesely (WG3 chairman) presented this report

No comments were provided. The report was noted.

### 8.2.2 Improvement of RRM across RNS and RNS/BSS

# RP-030383 Status Report for WI Improvement of RRM across RNS and RNS/BSS (RAN WG3)

Sami Kekki (Nokia) presented this report

Sami noted that no work has been produced under this item for a long time, Nokia proposes to close the WI. It is approved to close the WI, the report is noted.

### 8.2.3 Beamforming enhancement

#### **RP-030384** Status Report for WI Beamforming Enhancements (Rapporteur, Nokia)

Antti Toskala (Nokia) presented this report

Evelyn Lestrat (Nortel) indicated that there hasn't been any evaluation showing the benefits of beamforming based S-CPICH, and the new measurements being proposed are not enough if the signalling is not enhanced. Evelyn clarified that the signalling associated to changing to S-CPICH for time reference introduces a heavy load involving the RNC and also delays.

Dirk Gerstenberger (WG1 chairman) clarified that the scope of the WI assumed by WG1 is to introduce measurements for the support of the RRM for beamforming, to be used with existing beamforming methods.

It is also clarified that the changes only affect the network, and would enable to use beamforming with UEs from R99 onwards.

The report is noted

#### **RP-030477** Discussion of scope of WI "Beamforming Enhancements" (Alcatel)

Volker Braun (Alcatel) introduced this document

Antti Toskala (Nokia) indicated that this work doesn't fit under the Beamforming WI, rather under the radio link enhancements <u>WISI</u>. Dirk Gerstenberger (Ericsson) also supported this view. As a result of the discussions, a proposal for a new WI is drafted.

### 8.2.4 RRM optimizations for lur and lub

No contributions

### 8.2.5 Remote Control of Electrical Tilting Antennas

#### RP-030508 Answer from AISG chairman to RAN4 LS in R4-030640 on Control of RET Antennas (Vodafone)

Volker Hoehn (Vodafone) presented this document

The document contains the answers from AISG to the questions raised by WG4 on RET Antennas. It is agreed that it would be forwarded to WG4.

#### **RP-030385** Status Report for WI Remote Control of Electrical Tilting Antennas (RAN WG3) Volker Hoehn (Vodafone) presented this report

The completion date is moved from December 2003 to March 2004.

There were some concerns on the feasibility of the new time scale, but there seem to be enough WG3 and WG4 meetings to treat the topic.

It is explained that 3GPP specification should not diverge from AISG specifications, although it is clear that contributions from other 3GPP companies on the issue can be taken into account, not only the work from AISG can be considered.

The report is noted

### 8.2.6 Network Assisted Cell Change (NACC) from UTRAN to GERAN – network-side aspects

# **RP-030386** Status Report for WI Network Assisted Cell Change (NACC) from UTRAN to GERAN - network-side aspects (RAN WG3)

Alan Law (Vodafone) presented this report.

Denis Fauconnier (Nortel) reminded that GERAN has not been able to finish yet intra-GERAN NACC, he expected that the work is done in a coordinated matter between GERAN and WG3. The report is noted

### 8.3 UE Positioning

### 8.3.1 UE positioning enhancements

No contributions

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

# **RP-030387** Status Report for WI Open SMLC-SRNC Interface within the UTRAN to support UTRAN Rel4 positioning methods (Rapporteur, Siemens)

Meik Kottkamp (Siemens) presented this report

With the approval of the CR below, the WI is finished. The report is noted

# RP-030454 CR (Rel-6 only) to TS 25.453 on Improvement of position calculation with pathloss (RAN WG3)

No comments. The CR is approved

### 8.3.3 A-GPS minimum Performance Specification

#### **RP-030388** Status Report for WI A-GPS minimum performance specification (Rapporteur, AT&T Wireless Services)

Donglin Shen (ATT) presented this report. No comments. The report is noted

# 8.4 Enhancement of broadcast and introduction of Multicast Capabilities in RAN

#### RP-030389 Status Report for WI Introduction of MBMS in RAN (Rapporteur, Nokia)

Antti Toskala (Nokia) presented this report

It was objected that the requirements report, TR25.992, cannot be considered stable, given the LSs received from SA WG1 and WG2 and the request for an joint meeting in October for MBMS.

Han van Bussel (T-Mobile) questioned how can charging be implemented if the UTRAN is not informed of the UE capabilities, what seems to be an assumed principle. Denis clarified that charging had never affected RAN, and the rationale behind the decision on UE capabilities was to reduce complexity, as it was discovered to be unmanageable to hold the dedicated capabilities and the broadcast capabilities together. It was commented that the work of WG1 is not properly reflected in the TR. Antti commented that it is contained in its own TR 25.803.

There was a comment on the joint responsibility between WG2 and WG3 for this TR. Alex Vesely (WG3 chairman) clarified that WG2 has the formal responsibility, but in practical terms the work split is clear and WG3 produces some sections of the TR and WG2 others.

#### RP-030426 TR25.992 v2.0.2 Multimedia Broadcast Multicast Service (MBMS); UTRAN/ GERAN Requirements (Nokia)

Antti Toskala (Nokia) presented this TR.

It is proposed to approve this TR and bring it under change control as v6.0.0. An open issue is identified on page 10 regarding the feedback for the power control in p-t-m, and it is questioned how the requirements can be considered complete in such situation. Antti explained that it is left for the stage 3 to resolve that issue. The TR is approved

#### RP-030535 TR25.803 v1.0.0, S-CCPCH performance for MBMS (Qualcomm)

Serge Willenegger (Qualcomm) presented this TR.

Serge explained that the scope of the TR is larger than the title might suggest, as it covers all the power issues related to MBMS in WG1. The TR is presented for information.

There were some concerns on presenting this TR here in RAN, it seems that it has got to v1.0.0 in only one WG1 meeting. Said Tatesh (Lucent) argued that its status is premature to share with other WGs and with the plenary, and noted that it had not explicitly agreed in WG1 to present it to RAN.

Dirk Gerstenberger (WG1 chairman) clarified that in the view of WG1 the TR is effectively more than 50% complete, and it is valuable information for the other WGs already.

Hans van Bussel (T-Mobile) showed concern on the coverage results given in the summary, around 75% value. He warned that this figures might not be acceptable from SA WG1 perspective, for an operator almost 100% coverage of the cell should be required. It was suggested to make this information available to SA WG1. It is however questioned that SA WG1 experts could understand the results provided, for example for FDD they are given in terms of Ec/Ior. More digested information should be provided.

The TR will be provided by the chairman to TSG SA#21. In addition for the joint session between RAN WGs and SA WG1 and SA WG2 more updated material may be provided by RAN WG1.

It is agreed also that the TR will be listed also in the WI description sheet.

The TR is noted.

A Joint meeting with SA WG1 & WG2, RAN WGs and GERAN WG1 & WG2 for MBMS issues is under schedule. The invitation will be made available to RAN WGs.

### 8.5 Evolution of the transport in the UTRAN

No contributions. See WG3 chairman's report RP-030410.

### 8.6 Multiple Input Multiple Output Antennas

### 8.6.1 MIMO – Physical Layer

#### RP-030390 Status Report for WI Multiple Input Multiple Output antennas - Physical layer (Rapporteur, Lucent)

Said Tatesh (Lucent) presented this report

Antti Toskala (Nokia) noted that the requirements were not fully agreed and shouldn't be considered completed. Said explained that now it is just clarifications to the requirement sections what is under discussion.

The report is noted

It is suggested that the status reports from all groups should be consolidated in one, to avoid undesired misalignment between the them. No need for separate reports in the future.

#### **RP-030461** CRs (Rel-6) to TS 25.996 (RAN WG1)

No comments. The CR is approved

### 8.6.2 MIMO – Layer 2,3 aspects

# RP-030391 Status Report for WI Multiple Input Multiple Output antennas - Layer 2,3 aspects (Rapporteur, Lucent)

Noted. Report included in RP-030390

### 8.6.3 MIMO – lub/lur Aspects

RP-030392 Status Report for WI Multiple Input Multiple Output antennas - Iub/Iur Protocol Aspects (RAN WG3)

Noted. Report included in RP-030390

### 8.6.4 MIMO - RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing

RP-030393 Status Report for WI Multiple Input Multiple Output antennas - RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing (Rapporteur, Lucent)

Noted. Report included in RP-030390

### 8.7 Subscriber and Equipment Trace Support in UTRAN

#### **RP-030394** Status Report for WI Subscriber and equipment trace in UTRAN (RAN WG3) Denis Fauconnier (Nortel) presented this report

The completion date is moved from September 2003 to March 2004. The report is noted.

### 8.8 Technical Small Enhancements and Improvements

RP-030423 CRs (Rel-6) to TS 25.101, TS 25.104, TS 25.133 & TS 25.141 under WI "TEI6" (RAN WG4)

The CRs are approved

#### 8.9 Closed Release-6 Work Items

# **RP-030424** CRs (Rel-6) to TS 25.951under WI "FDD BS Classification" (RAN WG4) The CRs are approved

### 8.10 Study Items

### 8.10.1 Feasibility study on Radio link performance enhancements

# **RP-030395** Status Report for SI on Radio link performance enhancements (Rapporteur, Nokia Networks)

Antti Toskala (Nokia) presented this report.

Given that 3 different topics are studied under this SI, it is difficult to give an estimation of the completion The report is noted.

# 8.10.2 Feasibility study on UTRA Wideband Distribution System (WDS)

# RP-030396 Status Report for SI on UTRA WideBand Distribution Systems (Rapporteur, Tekmar Sistemi)

Howard Benn (WG4 chairman) presented this report

Howard highlighted the link with the Low Output Power SI, notably with the proposal that the gain introduced by elements after the BS antenna port is taken into account by the network. Howard expressed confidence that the current completion date can be met.

The report is noted.

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

# **RP-030397** Status Report for SI on Improvement of inter-frequency and inter-system measurements for 1.28 Mcps TDD (Rapporteur,SAMSUNG)

Lee Xiao Qiang (Samsung) presented this report The SI is finished, the results are compiled in TR25.888. The report is noted.

# RP-030500 TR25.888v2.0.0, Improvement of inter frequency and inter system measurement for 1,28 Mcps TDD (Samsung)

The conclusion of the study is that no additions to the specifications are required, the improvements can be internal to the RNC implementations. Therefore, no further actions are required. The report is approved, and it will be brought to v6.0.0

### 8.10.4 Analysis of OFDM for UTRAN evolution

# **RP-030398** Status Report for SI for the analysis of OFDM for UTRAN enhancement (Rapporteur, Nortel)

Evelyn Lestrat (Nortel) presented this report

Although not shown in the report, WG1 had agreed to move the completion date from December 2003 to June 2004. The chairman expressed concern on the number of times the completion date of this study has changed, as he has to report to 3GPP PCG on its progress. June 2004 seems to be the best estimated WG1 can give.

Han van Bussel (T-Mobile) praised the quality of the status reports received for this study so far, they are comprehensive and provide consistently an estimate of the completion. He suggested other rapporteurs to follow this example.

The report is noted.

### 8.10.5 Uplink Enhancements for Dedicated Transport Channels

# **RP-030399** Status Report for SI on Uplink Enhancements for Dedicated Transport Channels (Rapporteur, Nokia)

Antti Toskala (Nokia) presented this report

Mr Lee (Samsung) commented that the door should remain open for new techniques. Antti agreed and reminded that WG1 is contribution driven. It is noted however that the completion date can be difficult to maintain if new techniques have to be studied. Antti suggested to separate the topics and to conclude some issues even if others are still just opened.

The conclusion of this study may be one or more WIs to implement the feasible techniques. Since the WIs will not be finished by March (expected freezing date for Rel-6), there is no hurry either to finish the study. The report is noted.

# **RP-030512** TR25.896 v0.4.2, 'Feasibility Study for Enhanced Uplink for UTRA FDD (Nokia) Provided for information

### 8.10.6 Analysis of Higher Chip Rate for UTRA TDD evolution

# RP-030400 Status Report for SI on Analysis on Higher Chip Rates for UTRA TDD evolutions (Rapporteur, IPWireless)

Martin Beale (IPWireless) presented this report

Antti Toskala (Nokia) noted that the completion date might change if other proposals are presented. Martin warned that the scope of the SI is the analysis of higher rates, not the analysis on the use of wider bandwidth. However, he was open to proposals from other companies inside the scope even if the completion is delayed. The report is noted.

### 8.10.7 Evolution of UTRAN Architecture

#### **RP-030401** Status Report for SI on the evolution of the UTRAN architecture (RAN WG3) Sami Kekki (Nokia) presented this report

Contributions couldn't be treated in last WG3 meeting, the completion date is changed from December 2003 to March 2004.

The report is noted.

# 8.10.8 Improved access to UE measurement data for CRNC to support TDD RRM

# RP-030402 Status Report for SI of the improved access to UE measurement data for CRNC to support TDD RRM (RAN WG3)

Jim Miller (Interdigital) presented this report

The study is finished. The TR below contains the results. The work to implement the changes involved can be done through TEI6 or a new work item.

The report is noted.

# RP-030425 TR 25.801 v2.0.0 "Feasibility study for improved access to User Equipment (UE) measurement data for Controlling Radio Network Controller (CRNC) to support Time Division Duplex (TDD) Radio Resource Management (RRM) (Release 6) (RAN WG3)

Jim explained that 3 proposals had been studied. Option 2, the creation of a new UTRAN measurement procedure, needs no changes to the UE and introduces 4 new procedures in the network. It is the selected option.

Jim noted that the necessary CRs will not be many, and could be produced within the Rel-6 timeframe. He agreed to produce a WI description sheet to be presented for approval in this meeting. The TR is approved and will be upgraded to v6.0.0.

# 8.10.9 Enhancements to OTDOA Positioning using advanced blanking methods

# **RP-030403** Status Report for SI on Enhancements to OTDOA Positioning using advanced blanking methods (Rapporteur, Cambridge Positioning Systems)

David Bartlett (CPS) presented this report

David explained that a new proposal presented in WG1 is substantially different to the proposal evaluated in this study so far, and can be considered an enhancement to the existing OTDOA and also much simpler to implement than the previous solution studied.

As a way forward, 3 options had been envisaged in WG1: continue with the new proposal in the frame of the current SI, do the work on the new proposal under the existing UE-Pos enhancement WI, or third close the SI and create a SI with a broader scope to cover any enhancement on positioning.

Denis Fauconnier (Nortel) remarked that the new proposal is an improvement of the existing IPDL method, covering some holes of the technique, the work can very well inside the UE-Positioning enhancements. This view was supported by Nokia.

In any case, WG1 will have to study the performance and the impact on complexity of the new proposal. It seems feasible to do this evaluation in a 3 months period, and it seems also that the conclusion will not be a high number of CRs, so it is agreed to put the work under the umbrella of UE-Positioning enhancements. The current study is closed, since no further work on the old proposal will be produced.

Suzuki-san (Panasonic) explained that the new proposal is very much based on CPICH interference cancellation, and suggested that WG4 gets involved in the evaluation since the beginning. After a brief examination, Howard Benn (WG4 chairman) agreed that the topic seems very similar to what had been studied in WG4 and discarded for complexity reasons.

The report is noted.

### 8.10.10 Low Output Powers for general purpose FDD BS

# **RP-030404** Status Report for SI on Low Output Powers for general purpose FDD BSs (Rapporteur, Telefónica)

Juan Antonio Moreno (Telefónica) presented this report

Juan Antonio explained that WG4 had agreed to transfer responsibility to WG3, since it seems the work impacts mostly WG3 specifications. Also, WG4 has finished the evaluation of the solution proposed. Due to the transfer, the rapporteur responsibility also will change to Ana Burgos, the representative of Telefónica in WG3.

Juan Antonio clarified that, although no completed elements are listed, WG4 part of the work is finished for the only solution proposed. This explains the 50% completion.

There were some concerns on the proposed completion date since WG3 has yet to start looking at the proposed solution, finally WG3 chairman agreed to keep December 2003. The report is noted.

## 8.10.11 Uplink Enhancements for UTRA TDD

# **RP-030405** Status Report for SI on Uplink enhancements for UTRA TDD (Rapporteur, Interdigital)

This report was circulated in WG1 reflector and is revised in the document below.

# RP-030545 Status Report for SI on Uplink enhancements for UTRA TDD (Rapporteur, Interdigital)

Steve Dick (Interdigital) presented this report The report is noted

## 8.11 New Work Items/Study Items

#### **RP-030549** Proposed WID for Network Sharing stage 3 (TeliaSonera)

Per Ernstrom (TeliaSonera) presented this proposal

Per clarified that some support for network sharing is already in R99 and Rel-4 RAN specifications, the proposed WI is an enhancement of this feature. Per also clarified that is not the intention to affect Rel-5 or earlier networks.

Han van Bussel (T-Mobile) questioned if this RAN WI intends to cover all the scenarios in the Stage 1 document, which seem to be many, or the single case of multiple CNs connected to one UTRAN. Per clarified that some of the scenarios can be covered with the support for sharing already in the specs and yes, this WI focus on the many CNs to one UTRAN case. Per however clarified that the equivalent WI in GERAN hasn't been proposed so far.

Han commented that changes might be required also to the PLMN selection specifications. It was clarified that the work here is for RAN, the UTRAN will simply indicate the upper layers that more than one PLMN is detected in a given cell.

The name of the WI will be changed to "Enhancement of the support of network sharing in the UTRAN" to avoid confusion with the CN WG1 WI on the topic.

The rapporteur will be Anders Dahlén, TeliaSonera (Anders.Dahlen@TeliaSonera.com) The WI is approved.

#### RP-030539 New WI proposal "Improved access to UE measurement data for CRNC to support TDD RRM" (Interdigital)

Jim Miller (Interdigital) presented this proposal Although not listed in theWI description sheet, the supporting companies are Interdigital, Siemens, Samsung and CATT. These are the companies that supported the precedent SI The WI is approved.

# RP-030556 Proposal of a new WI "Improvement of support of existing beamforming techniques" (Alcatel, Nortel)

Volker Braun (Alcatel) presented this document

Evelyn remarked that the proposal doesn't intend to introduce new beamforming techniques, enhances current beamforming using dedicated pilots

The proposal is presented for information and to collect comments. It was noted that there is not point in starting a new WI for beamforming enhancements while there is one on the same topic still open. Edgar Fernandes (Motorola) didn't object the WI but warned about the impact on the terminals, and requested that a study of the impact on the UE is carried out when these techniques, and in general any kind of beamforming enhancement, are studied in WG1.

It was commented by several companies that the techniques proposed fall under radio link enhancements and should be treated under that WI. A proposed way forward was to re evaluate the RL enhancements <u>WI-SI</u> to include this work in its scope.

The proposal is noted.

## 9 Technical co-ordination among WGs

The chairman commented that the current approach to co-locate WG2 and WG3 meetings have proved very beneficial for the communications of these groups. He suggested that WG1 and WG4 should follow the same path, noting that already for 2004 these groups co-locate twice. It would be beneficial that WG1 takes advantage of WG4 expertise on simulations and requirements when evaluating new technologies. Further collocated meeting for 2005 shall be considered.

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

The action points have been reviewed during the meeting.

### 9.2 Other needs

No discussions.

### 10 Outputs to other groups

See section 7.1 of this report for outputs to ITU-R and LSs to TSG CN/T/SA related to ITU-R recommendation M.1457

### 11 Project management

#### **RP-030523** Rel-4 protocols backwards compatibility (Nokia)

Antti Toskala (Nokia) presented this document

It was agreed that the principle of backwards compatibility should be applied to RRC Rel-4 CRs from now onwards.

There was some debate on the applicability of backwards compatibility in Rel-5, concerning WG3 protocols. Alex Vesely (WG3 chairman) proposed to delay the decision to December 2003. WG3 will confirm if ASN.1 part can be frozen in December. Companies are encouraged to check if the same can be done with RRC.

#### **RP-030553** 3GPP Work Plan (3GPP Support)

Presented for information

#### **RP-030554** 3GPP Work Plan slideshow (3GPP Support)

Alain Sultan (3GPP support) gave this presentation

It is clarified that in slide 53, 'Enhancement of the support of Network Sharing'', actually refers to the new WI approved in RAN so, it is meant support in the UTRA

#### RP-030555 Overview of 3GPP Rel-5 (3GPP Support)

Presented for information

#### **RP-030525** Status List prior to TSG#21 (3GPP Support)

Presented for information.

#### 12 Any other business

No contributions

# 13 Closing of the meeting

The chairman closed the meeting at 11:00 on Friday 19<sup>th</sup>. He thanked the host for the organization and the delegates for their participation.

# Annex A: List of participants

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# Annex B: List of documents

See main body of the report for clarification on documents partially approved or approved with a note xx). All documents can be found at: <u>ftp://ftp.3gpp.org/tsg\_ran/TSG\_RAN/TSGR\_21/</u>

Tdoc	Title	Source	Decision
RP-030376	Draft agenda meeting #21	Chairman	Approved
RP-030377	Status Report for WI Improvement of inter-frequency and inter-system measurement	Rapporteur, Nokia	Noted
RP-030378	Status Report for WI Improving Receiver Performance Requirements for the FDD UE	Rapporteur, Intel	Noted
RP-030379	Status Report for WI UMTS-850	Rapporteur,Cingular	Noted
RP-030380	Status Report for WI DS-CDMA introduction in the 800 MHz band	Rapporteur, NTT DoCoMo	Noted
RP-030381	Status Report for WI UMTS 1.7/2.1 GHz	Rapporteur, Nokia	Noted
RP-030382	Status Report for WI lu enhancements for IMS support in RAN	RAN WG3	Noted
RP-030383	Status Report for WI Improvement of RRM across RNS and RNS/BSS	RAN WG3	Noted
RP-030384	Status Report for WI Beamforming Enhancements	Rapporteur, Nokia	Noted
RP-030385	Status Report for WI Remote Control of Electrical Tilting Antennas	RAN WG3	Noted
RP-030386	Status Report for WI Network Assisted Cell Change (NACC) from UTRAN to GERAN - network-side aspects	RAN WG3	Noted
RP-030387	Status Report for WI Open SMLC-SRNC Interface within the UTRAN to support UTRAN Rel4 positioning methods	Rapporteur, Siemens	Noted
RP-030388	Status Report for WI A-GPS minimum performance specification	Rapporteur, AT&T Wireless Services	Noted
RP-030389	Status Report for WI Introduction of MBMS in RAN	Rapporteur, Nokia	Noted
RP-030390	Status Report for WI Multiple Input Multiple Output antennas - Physical layer	Rapporteur, Lucent	Noted
RP-030391	Status Report for WI Multiple Input Multiple Output antennas - Layer 2,3 aspects	Rapporteur, Lucent	Noted
RP-030392	Status Report for WI Multiple Input Multiple Output antennas - Iub/Iur Protocol Aspects	RAN WG3	Noted
RP-030393	Status Report for WI Multiple Input Multiple Output antennas - RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing	Rapporteur, Lucent	Noted
RP-030394	Status Report for WI Subscriber and equipment trace in UTRAN	RAN WG3	Noted
RP-030395	Status Report for SI on Radio link performance enhancements	Rapporteur, Nokia Networks	Noted
RP-030396	Status Report for SI on UTRA WideBand Distribution Systems	Rapporteur, Tekmar Sistemi	Noted
RP-030397	Status Report for SI on Improvement of inter-frequency and inter-system measurements for 1.28 Mcps TDD	Rapporteur,SAMSUNG	Noted
RP-030398	Status Report for SI for the analysis of OFDM for UTRAN enhancement	Rapporteur, Nortel	Noted
RP-030399	Status Report for SI on Uplink Enhancements for Dedicated Transport Channels	Rapporteur, Nokia	Noted

Tdoc	Title	Source	Decision	
RP-030400	Status Report for SI on Analysis on Higher Chip Rates for UTRA TDD evolutions	Rapporteur, IPWireless	Noted	
RP-030401	Status Report for SI on the evolution of the UTRAN architecture	RAN WG3	Noted	
RP-030402	Status Report for SI of the improved access to UE measurement data for CRNC to support TDD RRM	RAN WG3	Noted	
RP-030403	Status Report for SI on Enhancements to OTDOA Positioning using advanced blanking methods	Rapporteur, Cambridge Positioning Systems	Noted	
RP-030404	Status Report for SI on Low Output Powers for general purpose FDD BSs	Rapporteur, Telefonica	Noted	
RP-030405	Status Report for SI on Uplink enhancements for UTRA TDD	Rapporteur, Interdigital	Withdrawn	
RP-030406	Status Report WG1	RAN WG1 Chairman	Noted	
RP-030407	List of Agreed CRs	RAN WG1	Noted	
RP-030408	Status Report WG2	RAN WG2 Chairman	Noted	
RP-030409	List of Agreed CRs	RAN WG2	Noted	
RP-030410	Status Report WG3	RAN WG3 Chairman	Noted	
RP-030411	List of all agreed/technically correct RAN3 CRs for RAN #21	RAN WG3	Noted	
RP-030412	Status Report WG4	RAN WG4 Chairman	Noted	
RP-030413	List of Agreed CRs	RAN WG4	Noted	
RP-030414	Status Report for WI RAB support enhancement	Rapporteur, Ericsson	Noted	
RP-030415	CRs (R'99 and ReI-4/ReI-5/ReI-6 Category A) to TS 25.101	RAN WG4	Approved	
RP-030416	CRs (Rel-4 and Rel-5 Category A) to TS 25.123	RAN WG4	Approved	
RP-030417	CRs (Rel-5 and Rel-6 Category A) to TS 25.101 under WI "High Speed Downlink Packet Access"	RAN WG4	Approved	
RP-030418	CRs (ReI-5 and ReI-6 Category A) to TS 25.101 under WI "TEI5"	RAN WG4	Approved	
RP-030419	CRs (Rel-5) to TS 25.106 & TS 25.143 (Repeaters specifications) on "Correction of naming of frequency bands and operating band. Introduction of pass band"	RAN WG4	Approved	
RP-030420	CRs (Rel-5 and Rel-6 Category A) to TS 25.133 under WI "TEI5"	RAN WG4	Approved	
RP-030421	CRs (Rel-6) to TS 25.101, TS 25.104 & TS 25.141 for the introduction of the new bands naming convention	RAN WG4	Revised in 515	
RP-030422	CRs (Rel-6) to TS 25.942 on "Methodology for coexistence studies of UTRA FDD with other radio technologies"	RAN WG4	Approved	
RP-030423	CRs (Rel-6) to TS 25.101, TS 25.104, TS 25.133 & TS 25.141 under WI "TEI6"	RAN WG4	Approved	
RP-030424	CRs (Rel-6) to TR 25.951 under WI "FDD BS Classification"	RAN WG4	Approved	
RP-030425	TR 25.801 v2.0.0 "Feasibility study for improved access to User Equipment (UE)RAN WG3measurement data for Controlling Radio Network Controller (CRNC) to support TimeDivision Duplex (TDD) Radio Resource Management (RRM) (Release 6)		Approved	
RP-030426	TR25.992 v2.0.2 Multimedia Broadcast Multicast Service (MBMS); UTRAN/GERAN Requirements	Nokia	Approved	
RP-030427	Revised draft report RAN meeting #20	3GPP Support	Approved	
RP-030428	Status Report for RAN#21 ITU-R Ad Hoc Contact Person			
RP-030429	Proposed update of Section 5.1.1 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Approved	

Tdoc	Title	Source	Decision
RP-030430	Proposed update of Section 5.1.2 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Revised in 526
RP-030431	Proposed update of Section 5.3.1 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Approved
RP-030432	Proposed update of Section 5.3.2 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Revised in 527
RP-030433	Proposed accompanying letter for the submission of the updated Global Core Specifications (GCS)	ITU-R Ad Hoc	Revised in 528
RP-030434	Proposed Final Submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU- R M.1457	ITU-R Ad Hoc	Revised in 529
RP-030435	Proposed reminder for the OP on the compliance with ITU-R procedures as it relates to Revision 4 of Rec. ITU-R M.145	ITU-R Ad Hoc	Revised in 534
RP-030436	Proposed updated information on the Roadmap	ITU-R Ad Hoc	Approved
RP-030437	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.413 on Essential Correction of Iu Release Request	RAN WG3	Approved
RP-030438	CRs (Rel-4 and Rel-5 Category A) to TS 25.419 on Correction of number of broadcast to be reported	RAN WG3	Approved
RP-030439	CRs (Rel-5 only) to TS 25.413	RAN WG3	Approved
RP-030440	CRs (Rel-5 only) to TS 25.423	RAN WG3	Approved
RP-030441	CRs (Rel-5 only) to TS 25.433	RAN WG3	Approved
RP-030442	CRs (Rel-5 only) to TS 25.453	RAN WG3	Approved
RP-030443	CRs (R99 and Rel-4/Rel-5 Category A) to TS 25.423 and TS 25.433 on Corrections to Tx Diversity	RAN WG3	Approved
RP-030444	CRs (Rel-4 and Rel-5 Category A) to TS 25.423 and TS 25.433 on "On Modification" and "Periodic" reporting alignment for Information Exchange procedures	RAN WG3	Approved
RP-030445	CRs (Rel-5 only) to TS 25.413, TS 25.419, TS 25.423, TS 25.433 and TS 25.453 (Rel-5 and Rel-6 Category A) on Alignment of title and sub-clause text of chapter 10.3.4.2	RAN WG3	Approved
RP-030446	CRs (Rel-5 only) to TS 25.413, TS 25.419, TS 25.423, TS 25.433 and TS 25.453 (Rel-5 and Rel-6 Category A) on Removal of the note in chapter 10	RAN WG3	Approved
RP-030447	CRs (ReI-5 only) to TS 25.423, TS 25.427 and TS 25.433 on Coordination with RRC about the TFS of DL DCH for HS-DSCH	RAN WG3	Approved
RP-030448	CRs (ReI-5 only) to TS 25.424, TS 25.426 and TS 25.434 on Handling of maximum bit rate exceeding 2048kbit/s	RAN WG3	Revised in 507
RP-030449	CRs (ReI-5 only) to TS 25.423, TS 25.433 and TS 25.331 (RAN2) on HS-DSCH Priority Queue to Modify	RAN WG3	Approved
RP-030450	CRs (ReI-5 only) to TS 25.423, TS 25.433 and TS 25.321 (RAN2) on MAC-hs Reordering Buffer Size	RAN WG3	Revised in 536
RP-030451	CRs (Rel-5 only) to TS 25.423 and TS 25.433 on Discard timer signalling for HSDPA	RAN WG3	Approved
RP-030452	CRs (Rel-5 only) to TS 25.423, TS 25.433 and TS 25.215 (RAN1) on Phase Reference Signalling Support	RAN WG3	Approved
RP-030453	CRs (Rel-5 only) to TS 25.423 and TS 25.433 on HS-DSCH information usage description clarification	RAN WG3	Approved
RP-030454	CR (Rel-6 only) to TS 25.453 on Improvement of position calculation with pathloss	RAN WG3	Approved
RP-030455	CRs (R'99 and Rel4/Rel5 category A) to TS 25.224	RAN WG1	Withdrawn

Tdoc	Title	Source	Decision
RP-030456	CRs (Rel-5) to TS 25.212	RAN WG1	Approved 1)
RP-030457	CRs (Rel-5) to TS 25.213	RAN WG1	Approved
RP-030458	CRs (Rel-5) to TS 25.214	RAN WG1	Approved
RP-030459	CRs (Rel-5) to TS 25.215	RAN WG1	Withdrawn
RP-030460	CRs (Rel-5) to TS 25.224	RAN WG1	Approved
RP-030461	CRs (Rel-6) to TR 25.996	RAN WG1	Approved
RP-030462	Linked CRs (ReI-5) to TS 25.211(RAN1), TS 25.214 (RAN1) and TS 25.331 (RAN2) on Removal of the combination of TxAA Mode 1 with HS-SCCH	RAN WG1	Approved
RP-030463	Linked CRs (ReI-5) to TS 25.213 and TS 25.331 on Scrambling code & phase reference combinations for DL HS channels	RAN WG1	Withdrawn
RP-030464	LS on Implementability of MBMS Requirements and Architecture	TSG GERAN	Noted
RP-030465	Reply to LS on Implementability of MBMS Requirements and Architecture, (GP031730)	TSG SA WG1	Noted
RP-030466	Reply LS on Implementability of MBMS Requirements and Architecture	TSG SA WG2	Noted
RP-030467	LS regarding progress of work for MBMS User Services	TSG SA WG1	Noted
RP-030468	Need for OMA Liaison with 3GPP and 3GPP2 re PoC	OMA Requirements WG	Noted
RP-030469	Reply LS on review of TR "Study into Applicability of GALILEO in LCS" (S2-031577)	TSG SA WG1	Noted
RP-030470	LS on TR 22.952, Priority Service Guide – request for review and comment	TSG SA WG1	Noted
RP-030471	LS on "out of service area" in CELL_FACH state	TSG RAN WG2	Noted
RP-030472	LS on RAN Work Item "Control of Remote Electrical Tilting Antenna" and possible impact on TSG SA 5	TSG RAN WG3	Noted
RP-030473	Liaison on "Introduction of Positioning Methods over Iu"	TSG RAN WG3	Noted
RP-030474	Reply LS on the material to be submitted to ITU-R WP8F#11 for Revision 4 of Recommendation ITU-R M.1457	TSG RAN WG4	Noted
RP-030475	Reply LS on "Proposed guidance to RAN4 on the LS on ITU-R draft new Report on mitigating techniques to address coexistence between IMT-2000 TDD and FDD within the frequency range 2.5-2.6 GHZ in adjacent bands and in the same geographical area"	TSG RAN WG4	Noted
RP-030476	CRs (R'99 and Rel4/Rel5 category A) to TS 25.224	RAN WG1	Approved
RP-030477	Discussion of scope of WI "Beamforming Enhancements"	Alcatel	Noted
RP-030478	The elimination of the EPC mechanism: 25.322 and 25.331 R'99 CRs (with linked Rel- 4/Rel-5 CRs)	RAN WG2	Approved
RP-030479	Maintaining the RRC connection while "emergency camped" on an F-PLMN during Out Of Service: 25.331 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Revised in 548
RP-030480	25.302 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved
RP-030481	25.305 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved
RP-030482	25.306 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved 2)
RP-030483	25.322 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved
RP-030484	25.331 R'99 CRs - Set 1 (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved 3)
RP-030485	25.331 R'99 CRs - Set 2 (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved
RP-030486	25.331 R'99 CRs - Set 3 (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved 4)
RP-030487	25.331 R'99 CRs - Set 4 (with linked Rel-4/Rel-5 CRs)	RAN WG2	Withdrawn

Tdoc	Title	Source	Decision	
RP-030488	25.921 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved	
RP-030489	25.993 CRs - Version 6.2.0 affecting the R'99	RAN WG2	Approved 5)	
RP-030490	25.322 Rel-4 CRs (with linked Rel-5 CRs)	RAN WG2	Approved	
RP-030491	25.331 Rel-4 CRs (with linked Rel-5 CRs)	RAN WG2	Approved	
RP-030492	25.302 Rel-5 CR	RAN WG2	Approved	
RP-030493	25.306 Rel-5 CR	RAN WG2	Approved	
RP-030494	25.321 Rel-5 CRs	RAN WG2	Approved 8)	
RP-030495	25.331 Rel-5 CRs	RAN WG2	Approved	
RP-030496	25.922 Rel-5 CRs	RAN WG2	Approved	
RP-030497	25.993 CRs - Version 6.2.0 affecting the Rel-5	RAN WG2	Approved	
RP-030498	Liaison Statement on EC Requirements on Emergency Telecommunications	OCG EMTEL	Noted	
RP-030499	LS on Signalling Requirements for IP Q0S	ITU-T SG16	Noted	
RP-030500	TR25.888v2.0.0, Improvement of inter frequency and inter system measurement for 1,28 Mcps TDD	Samsung	Approved	
RP-030501	25.321 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Approved	
RP-030502	Scrambling code & phase reference combinations for HS-DSCH (solution 1): 25.331 and 25.213 Rel-5 CRs	RAN WG2	Not approved	
RP-030503	Scrambling code & phase reference combinations for HS-DSCH (solution 2): 25.331 CR	RAN WG2	Approved	
RP-030504	Reconfiguration with state transition to an indicated cell on a different frequency: 25.331 R'99 CRs (with linked Rel-4/Rel-5 CRs)	RAN WG2	Not approved	
RP-030505	Radio link failure during reconfiguration procedure: 25.331 R'99 CRs (with linked Rel- 4/Rel-5 CRs)	RAN WG2	Approved	
RP-030506	Revision of CR1998, CR1999 and CR2000 (R99, Rel-4 & Rel-5) to 25.331 on "Reconfiguration with state transition to an indicated cell on a different frequency"	Qualcomm	Approved	
RP-030507	Revised CRs (Rel-5 only) to TS 25.424, TS 25.426 and TS 25.434 on Handling of maximum bit rate exceeding 2048kbit/s	NEC	Revised in 538	
RP-030508	Answer from AISG chairman to RAN4 LS in R4-030640 on Control of RET Antennas	Vodafone	Noted	
RP-030509	Working Procedure for Early UE handling	Vodafone	Noted	
RP-030510	Proposed WID for Network Sharing stage 3	TeliaSonera	Revised in 549	
RP-030511	Possible contribution to ITU-R WP8F on the outcome of the feasibility study on the viable deployment of UTRA in additional and diverse spectrum arrangements	ITU-R AH contactperson	Approved	
RP-030512	TR 25.896 v0.4.2, 'Feasibility Study for Enhanced Uplink for UTRA FDD	Nokia	Noted	
RP-030513	CR 25.214-332r1 (R99) 334 (Rel-4) 335 (Rel-5) , "UL Synchronization"	Qualcomm, Nokia	Revised in 522	
RP-030514	Revised CRs for DS-CDMA introduction in the 800 MHz band	ARIB	Noted	
RP-030515	CRs (ReI-6) to TS 25.101, TS 25.104 & TS 25.141 for the introduction of the new bands ARIB naming convention			
RP-030516	Proposed LS to TSG T on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457	ITU-R AH Contact Person	Revised in 530	
RP-030517	Proposed LS to TSG SA on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457	ITU-R AH Contact Person	Revised in 531	

Tdoc	Title	Source	Decision
RP-030518	Proposed LS to TSG CN on the documents to be considered for the Revision 4 of	ITU-R AH Contact	Revised in 532
	Recommendation ITU-R M.1457	Person	
RP-030519	RAN WIs and SIs, active and historic	3GPP Support	Noted
RP-030520	Proposed CR2001r2, CR2002r2, CR2003r2 to 25.331 "START calculation in connected mode"	Ericsson	Approved
RP-030521	Releasing RRC connection when emergency camp	Motorola, Qualcomm, NEC, Panasonic	Noted
RP-030522	CR 25.214-332r1 (R99) 334 (Rel-4) 335 (Rel-5) , "UL Synchronization"	Qualcomm, Nokia	Revised in 544
RP-030523	Rel-4 protocols backwards compatibility	Nokia	Approved
RP-030524	Discussion on removing the RRC connection releasing option while emergency camped on a F-PLMN during Out Of Service	Vodafone	Noted
RP-030525	Status List prior to TSG#21	3GPP Support	Noted
RP-030526	Proposed update of Section 5.1.2 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Revised in 550
RP-030527	Proposed update of Section 5.3.2 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Revised in 551
RP-030528	Proposed accompanying letter for the submission of the updated Global Core Specifications (GCS)	ITU-R Ad Hoc	Approved
RP-030529	Proposed Final Submission for updated UTRA FDD and TDD toward Rev. 4 of Rec. ITU- R M.1457	ITU-R Ad Hoc	Approved
RP-030530	Proposed LS to TSG T on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457	ITU-R AH Contact Person	Approved
RP-030531	Proposed LS to TSG SA on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457	ITU-R AH Contact Person	Approved
RP-030532	Proposed LS to TSG CN on the documents to be considered for the Revision 4 of Recommendation ITU-R M.1457	ITU-R AH Contact Person	Approved
RP-030533	Revision of R99 CR to 25.224 in RP-030476, DTX and Special Bursts in case of no data on S-CCPCH and Beacon Channels	Siemens	Approved
RP-030534	Proposed reminder for the OP on the compliance with ITU-R procedures as it relates to Revision 4 of Rec. ITU-R M.145	ITU-R Ad Hoc	Approved
RP-030535	TR25.803 v1.0.0, S-CCPCH performance for MBMS	Qualcomm	Noted
RP-030536	CRs (Rel-5 only) to TS 25.423, TS 25.433 and TS 25.321 (RAN2) on MAC-hs Reordering	RAN WG3	Approved
RP-030537	COMMENTS ON ITU-R DRAFT NEW REPORT ON MITIGATING TECHNIQUES TO ADDRESS 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	TSG RAN	Approved
RP-030538	Revised CRs (Rel-5 only) to TS 25.424, TS 25.426 and TS 25.434 on Handling of maximum bit rate exceeding 2048kbit/s	Siemens	Approved
RP-030539	New WI proposal "Improved access to UE measurement data for CRNC to support TDD RRM"	Interdigital	Approved
RP-030540	R99, Rel-4, Rel-5 & Rel-6 CELL_DCH to CELL_FACH/CELL_PCH/URA_PCH transition when suitable UTRA cell is not found	Nokia	Approved
RP-030541	Consent of Q.2630.3, Q.2631.1, Q.2632.1	ITU-T SG11	Noted

Tdoc	Title	Source	Decision
RP-030542	Electronic Meeting on Signalling Requirements for IP-QOS	ITU-T SG11	Noted
RP-030543	Proposed way forward with the lur-g discussion between GERAN and RAN WG2	Nokia	Noted
RP-030544	CR 25.214- 335 (Rel-5), "UL Synchronization"	Qualcomm, Nokia	Revised in 547
RP-030545	Status Report for SI on Uplink enhancements for UTRA TDD	Rapporteur, Interdigital	Noted
RP-030546	LS to TSG RAN on the documents to be considered for the Revision 4 of	TSG T	Noted
	Recommendation ITU-R M.1457		
RP-030547	CR 25.214- 335 (Rel-5), "UL Synchronization"	Qualcomm, Nokia	Approved
RP-030548	Maintaining the RRC connection while "emergency camped" on an F-PLMN during Out Of	Vodafone	Approved
	Service: 25.331 Rel-6 CR		
RP-030549	Proposed WID for Network Sharing stage 3	TeliaSonera	Approved
RP-030550	Proposed update of Section 5.1.2 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Noted
RP-030551	Proposed update of Section 5.3.2 of Rec. ITU-R M.1457	ITU-R Ad Hoc	Noted
RP-030552	Revision of CRs in RP-030486 on Corrections for minimum UE capability class	Ericsson	Not approved
RP-030553	3GPP Work Plan	3GPP Support	Noted
RP-030554	3GPP Work Plan slideshow	3GPP Support	Noted
RP-030555	Overview of 3GPP Rel-5	3GPP Support	Noted
RP-030556	Proposal of a new WI "Improvement of support of existing beamforming techniques"	Alcatel, Nortel	Noted

# Annex C: List of CRs presented at TSG RAN #21

The table below lists all the CRs presented at RAN#21, regardless of their final status.

Spec	CR	R	Phase	Cat	TSG Doc	WG Doc	TSG Status	Subject	CR to version	WG	Workitem
25.101	250	3	Rel-5	F	RP-030417	R4-030816	Approved	Addition of transmitter characteristics for HS-DPCCH	5.7.0	R4	HSDPA-RF
25.101	251	3	Rel-6	А	RP-030417	R4-030817	Approved	Addition of transmitter characteristics for HS-DPCCH	6.1.0	R4	HSDPA-RF
25.101	261	1	R99	F	RP-030415	R4-030840	Approved	Problems with "Out of sync" in Initial Convergence test	3.14.0	R4	TEI
25.101	262	1	Rel-4	А	RP-030415	R4-030841	Approved	Problems with "Out of sync" in Initial Convergence test	4.8.0	R4	TEI
25.101	263	1	Rel-5	А	RP-030415	R4-030842	Approved	Problems with "Out of sync" in Initial Convergence test	5.7.0	R4	TEI
25.101	264	1	Rel-6	Α	RP-030415	R4-030843	Approved	Problems with "Out of sync" in Initial Convergence test	6.1.0	R4	TEI
25.101	265	1	Rel-6	F	RP-030423	R4-030808	Approved	UE blocking requirements	6.1.0	R4	TEI6
25.101	267	1	Rel-6	F	RP-030423	R4-030809	Approved	Spurious Emission in GSM bands	6.1.0	R4	TEI6
25.101	269		Rel-5	F	RP-030418	R4-030785	Approved	Correction of CR 160 implementation for Correction of power terms and definitions	5.7.0	R4	TEI5
25.101	270		Rel-6	A	RP-030418	R4-030786	Approved	Correction of CR 160 implementation for Correction of power terms and definitions	6.1.0	R4	TEI5
25.101	271		Rel-6	В	RP-030421	R4-030835	Revised	Frequency bands for UMTS1.7/2.1, UMTS800 and UMTS850	6.1.0	R4	RInImp- UMTS850, RInImp- UMTS800, RInImp- UMTS1721
25.101	271	1	Rel-6	В	RP-030515		Approved	Frequency bands for UMTS1.7/2.1, UMTS800 and UMTS850	6.1.0	R4	RInImp- UMTS850, RInImp- UMTS800, RInImp- UMTS1721
25.104	199	1	Rel-6	F	RP-030423	R4-030812	Approved	Spurious emission levels for the protection of UTRA-FDD BS receiver	6.2.0	R4	TEI6
25.104	200		Rel-6	В	RP-030421	R4-030836	Revised	Frequency bands for UMTS1.7/2.1, UMTS800 and UMTS850	6.2.0	R4	RInImp- UMTS850, RInImp- UMTS800, RInImp- UMTS1721
25.104	200	1	Rel-6	В	RP-030515		Approved	Frequency bands for UMTS1.7/2.1, UMTS800 and UMTS850	6.2.0	R4	RInImp-

Spec	CR	R	Phase	Cat	TSG Doc	WG Doc	TSG Status	Subject	CR to version	WG	Workitem
											UMTS850, RInImp- UMTS800, RInImp- UMTS1721
25.106	024		Rel-5	F	RP-030419	R4-030761	Approved	Correction of naming of frequency bands and operating band. Introduction of pass band	5.5.0	R4	RInImp-REP
25.123	308		Rel-4	F	RP-030416	R4-030676	Approved	Correction to test parameter for 3.84Mcps TDD cell re- selection for 1.28Mcps TDD in idle mode	4.9.0	R4	LCRTDD-RF
25.123	309		Rel-5	A	RP-030416	R4-030677	Approved	Correction to test parameter for 3.84Mcps TDD cell re- selection for 1.28Mcps TDD in idle mode	5.5.0	R4	LCRTDD-RF
25.123	310		Rel-4	F	RP-030416	R4-030678	Approved		4.9.0	R4	LCRTDD-RF
25.123			Rel-5	А	RP-030416	R4-030679	Approved	Correction to Timing Advance of 1.28Mcps TDD option	5.5.0	R4	LCRTDD-RF
25.123		_	Rel-4	F	RP-030416	R4-030680	Approved		4.9.0	R4	LCRTDD-RF
25.123			Rel-5	А	RP-030416	R4-030681	Approved		5.5.0	R4	LCRTDD-RF
25.123			Rel-4	F	RP-030416	R4-030682	Approved		4.9.0	R4	LCRTDD-RF
25.123	315		Rel-5	A	RP-030416	R4-030683	Approved	Correction to 1.28Mcps TDD measurement and test case for GSM	5.5.0	R4	LCRTDD-RF
25.123	316		Rel-4	F	RP-030416	R4-030684	Approved	Correction to inter frequency measurement requirements and test cases for 1.28Mcps TDD option	4.9.0	R4	LCRTDD-RF
25.123	317		Rel-5	A	RP-030416	R4-030685	Approved	Correction to inter frequency measurement requirements and test cases for 1.28Mcps TDD option	5.5.0	R4	LCRTDD-RF
25.123	318		Rel-4	F	RP-030416	R4-030697	Approved		4.9.0	R4	LCRTDD-RF
25.123			Rel-5	А	RP-030416		Approved		5.5.0	R4	LCRTDD-RF
25.123			Rel-4	F	RP-030416	R4-030699	Approved	GSM carrier RSSI Measurement Test Case for 1.28Mcps TDD		R4	LCRTDD-RF
25.123			Rel-5	А	RP-030416	R4-030700	Approved	GSM carrier RSSI Measurement Test Case for 1.28Mcps TDD		R4	LCRTDD-RF
25.133	604		Rel-6	F	RP-030423	R4-030665	Approved	Correction of the RACH reporting delay	6.2.0	R4	TEI6
25.133	605		Rel-5	F	RP-030420	R4-030710	Approved	Accuracy requirement of non-HSDPA transmit carrier power measurement	5.7.0	R4	TEI5
25.133	606		Rel-6	A	RP-030420	R4-030711	Approved	Accuracy requirement of non-HSDPA transmit carrier power measurement	6.2.0	R4	TEI5
25.133	608		Rel-6	F	RP-030423	R4-030747	Approved	Test time reduction for Cell Re-selection in CELL_FACH	6.2.0	R4	TEI6
25.133			Rel-5	F	RP-030420	R4-030838	Approved	FDD inter-frequency cell identification	5.7.0	R4	TEI5
25.133	-		Rel-6	А	RP-030420	R4-030839	Approved	· · · ·	6.2.0	R4	TEI5
25.133		_	R99	F	RP-030540		Approved	CELL_DCH to CELL_FACH/CELL_PCH/URA_PCH transition when suitable UTRA cell is not found		R4	TEI
25.133	614		Rel-4	A	RP-030540		Approved	CELL_DCH to CELL_FACH/CELL_PCH/URA_PCH transition when suitable UTRA cell is not found	4.9.0	R4	TEI
25.133	615		Rel-5	А	RP-030540		Approved	CELL_DCH to CELL_FACH/CELL_PCH/URA_PCH transition	5.7.0	R4	TEI

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								when suitable UTRA cell is not found			
25.133	616		Rel-6	A	RP-030540		Approved	CELL_DCH to CELL_FACH/CELL_PCH/URA_PCH transition when suitable UTRA cell is not found	6.2.0	R4	TEI
25.141	315	1	Rel-6	F	RP-030423	R4-030811	Approved	Measurement interval in Frequency error, PCDE and EVM testing	6.2.0	R4	TEI6
25.141	318	1	Rel-6	F	RP-030423	R4-030813	Approved	Spurious emission levels for the protection of UTRA-FDD BS receiver	6.2.0	R4	TEI6
25.141	319		Rel-6	В	RP-030421	R4-030837	Revised	Frequency bands for UMTS1.7/2.1, UMTS800 and UMTS850	6.2.0	R4	RInImp- UMTS850, RInImp- UMTS800, RInImp- UMTS1721
25.141	319	1	Rel-6	В	RP-030515		Approved	Frequency bands for UMTS1.7/2.1, UMTS800 and UMTS850	6.2.0	R4	RInImp- UMTS850, RInImp- UMTS800, RInImp- UMTS1721
25.143	035		Rel-5	F	RP-030419	R4-030762	Approved	Correction of naming of frequency bands and operating band. Introduction of pass band	5.5.0	R4	RInImp-REP
25.211	186	1	Rel-5	F	RP-030462	R1-030857	Approved	Removal of the combination of TxAA Mode 1 with HS-SCCH	5.4.0	R1	HSDPA-Phys
25.212	178	4	Rel-5	F	RP-030456	R1-030932	Approved	Clarification on Single Transport Format Detection	5.5.0	R1	TEI-5
25.212	179	-	Rel-5	D	RP-030456	R1-030752	Approved	Correction on table number in first interleave description	5.5.0	R1	TEI-5
25.212	180	3	Rel-5	С	RP-030456	R1-030936	Approved	Broadening the conditions that require Ues to perform BTFD for the case of HS-DSCH reception	5.5.0	R1	HSDPA-Phys
25.213	062	-	Rel-5	F	RP-030457	R1-030689	Approved	Clarification of 16QAM modulation description	5.3.0	R1	HSDPA-Phys
25.213	063	1	Rel-5	F	RP-030502	R1-030862	Rejected	Scrambling code & phase reference combinations for DL HS channels	5.3.0	R1	HSDPA-Phys
25.214	325	-	Rel-5	F	RP-030458	R1-030649	Approved	Correction of CQI definition table	5.5.0	R1	HSDPA-Phys
25.214	326	-	Rel-5	F	RP-030462	R1-030652	Approved	Removal of the combination of TxAA Mode 1 with HS-SCCH	5.5.0	R1	HSDPA-Phys
25.214	328	2	Rel-5	F	RP-030458	R1-030934	Approved	Clarification of power scaling with HS-DPCCH	5.5.0	R1	HSDPA-Phys
25.214	329	3	Rel-5	F	RP-030458	R1-030864	Approved	Correction of CQI reporting in DL compressed mode	5.5.0	R1	HSDPA-Phys
25.214	330	1	Rel-5	F	RP-030458	R1-030866	Approved	Clarification of HS-SCCH reception	5.5.0	R1	HSDPA-Phys
25.214	332	2	R99	F	RP-030513		Revised	Uplink synchronization	3.12.0	R1	TEI
25.214	332	3	R99	F	RP-030522		Rejected	Uplink synchronization	3.12.0	R1	TEI
25.214	333	1	Rel-5	F	RP-030458	R1-030865	Approved	Clarification on CQI repetition behaviour	5.5.0	R1	HSDPA-Phys
25.214	334		Rel-4	А	RP-030513		Revised	Uplink synchronization	4.6.0	R1	TEI
25.214	334	1	Rel-4	А	RP-030522		Rejected	Uplink synchronization	4.6.0	R1	TEI
25.214	335		Rel-5	А	RP-030513		Revised	Uplink synchronization	5.5.0	R1	TEI

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25.214	335	1	Rel-5	А	RP-030522		Rejected	Uplink synchronization	5.5.0	R1	TEI
25.214	335	2	Rel-5	А	RP-030544		Revised	Uplink synchronization	5.5.0	R1	TEI
25.214	335	3	Rel-5	<u>AF</u>	RP-030547		Approved	Uplink synchronization	5.5.0	R1	TEI
25.215	144	1	Rel-5	F	RP-030452	R1-030810	Approved	Beamforming Enhancement related measurements	5.4.0	R1	RANimp-BFE
25.224	121	3	Rel-5	F	RP-030460	R1-030872	Approved	Clarification on PDSCH Downlink Power Control Procedures	5.5.0	R1	TEI-5
25.224	123	1	R99	F	RP-030476	R1-030918	Revised	DTX and Special Bursts in case of no data on S-CCPCH and Beacon Channels	3.12.0	R1	
25.224	123	2	R99	F	RP-030533		Approved	DTX and Special Bursts in case of no data on S-CCPCH and Beacon Channels	3.12.0	R1	
25.224	124	1	Rel-4	A	RP-030476	R1-030918	Approved	DTX and Special Bursts in case of no data on S-CCPCH and Beacon Channels	4.8.0	R1	
25.224	125	1	Rel-5	A	RP-030476	R1-030918	Approved	DTX and Special Bursts in case of no data on S-CCPCH and Beacon Channels	5.5.0	R1	
25.302	140	-	R99	F	RP-030480	R2-031860	Approved	Correction to FDD downlink transport channel combinations for SCCPCH	3.15.0	R2	TEI
25.302	141	-	Rel-4	A	RP-030480	R2-031861	Approved	Correction to FDD downlink transport channel combinations for SCCPCH	4.7.0	R2	TEI
25.302	142	-	Rel-5	A	RP-030480	R2-031862	Approved	Correction to FDD downlink transport channel combinations for SCCPCH	5.5.0	R2	TEI
25.302	143	-	Rel-5	F	RP-030492	R2-031930	Approved	Correcting model of the UE's physical layer regarding DCH with HS-DSCH	5.5.0	R2	TEI5
25.305	090	-	R99	F	RP-030481	R2-031863	Approved	Correction to UE Positioning privacy procedures	3.9.0		TEI
25.305	091	-	Rel-4	А	RP-030481	R2-031864	Approved	Correction to UE Positioning privacy procedures	4.5.0	_	TEI
25.305	092	-	Rel-5	А	RP-030481	R2-031865	Approved	Correction to UE Positioning privacy procedures	5.6.0		TEI
	093	-	R99	F	RP-030481	R2-031869	Approved	Alignment with 25.331 regarding A-GPS assistance data	3.9.0		TEI
25.305	094	-	Rel-4	A	RP-030481	R2-031870	Approved	Alignment with 25.331 regarding A-GPS assistance data	4.5.0		TEI
	095	-	Rel-5	A	RP-030481	R2-031871	Approved	Alignment with 25.331 regarding A-GPS assistance data	5.6.0		TEI
	096	-	R99	F	RP-030481	R2-031989	Approved	UE positioning support in the UE	3.9.0		TEI
25.305	097	-	Rel-4	A	RP-030481	R2-031990	Approved	UE positioning support in the UE	4.5.0		TEI
25.305	098	-	Rel-5	A	RP-030481	R2-031991	Approved	UE positioning support in the UE	5.6.0	R2	TEI
25.306	072	-	Rel-5	F	RP-030493	R2-031931	Approved	Addition of memory unit in UE Radio Access Capabilities tables	5.5.0	R2	HSDPA-L23
25.306	073	-	R99	F	RP-030482	R2-031957	Approved	Correction of Maximum hc context space capability	3.8.0	R2	TEI
25.306	074	-	Rel-4	А	RP-030482	R2-031958	Approved	Correction of Maximum hc context space capability	4.7.0	R2	TEI
25.306	075	-	Rel-5	А	RP-030482	R2-031959	Approved	Correction of Maximum hc context space capability	5.5.0	R2	TEI
25.306	076	-	R99	F	RP-030482	R2-031983	Approved	UE positioning support in the UE	3.8.0	R2	TEI
25.306	077	-	Rel-4	А	RP-030482	R2-031984	Approved	UE positioning support in the UE	4.7.0	R2	TEI
25.306	078	-	Rel-5	F	RP-030482	R2-031985	Approved	UE positioning support in the UE	5.5.0	R2	TEI
25.306	079	-	R99	F	RP-030482	R2-031992	Rejected	Definition of minimum UE capability class	3.8.0	R2	TEI

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25.306	080	-	Rel-4	А	RP-030482	R2-031993	Rejected	Definition of minimum UE capability class	4.7.0	R2	TEI
25.306	081	-	Rel-5	A	RP-030482	R2-031994	Rejected	Definition of minimum UE capability class	5.5.0	R2	TEI
25.321	174	1	Rel-5	F	RP-030494	R2-032038	Revised	MAC-hs Re-ordering Protocol Correction & MAC-hs window re-ordering	5.5.0	R2	HDPA-L23
25.321	174	2	Rel-5	F	RP-030536	R2-032038	Approved	MAC-hs Re-ordering Protocol Correction & MAC-hs window re-ordering	5.5.0	R2	HSDPA-lublur
25.321	175	-	Rel-5	С	RP-030494	R2-031936	Approved	Addition of HS-DSCH Provided Bit Rate measurement	5.5.0	R2	HDPA-L23
25.321	176	-	R99	F	RP-030501	R2-032001	Approved	TFCS selection guidelines for TFC Subset	3.15.0	R2	TEI
25.321	177	-	Rel-4	А	RP-030501	R2-032002	Approved	TFCS selection guidelines for TFC Subset	4.8.0	R2	TEI
25.321	178	-	Rel-5	А	RP-030501	R2-032003	Approved	TFCS selection guidelines for TFC Subset	5.5.0	R2	TEI
25.322	228	-	R99	F	RP-030483	R2-031874	Approved	SDU Concatenation Exceptions and SDU Concatenation in AM Mode	3.15.0	R2	TEI
25.322	229	-	Rel-4	A	RP-030483	R2-031875	Approved	SDU Concatenation Exceptions and SDU Concatenation in AM Mode	4.9.0	R2	TEI
25.322	230	-	Rel-5	A	RP-030483	R2-031876	Approved	SDU Concatenation Exceptions and SDU Concatenation in AM Mode	5.5.0	R2	TEI
25.322	231	1	R99	F	RP-030483	R2-032011	Approved	Decision of Discarded SDUs from Discarded PDUs	3.15.0	R2	TEI
25.322	232	1	Rel-4	А	RP-030483	R2-032012	Approved	Decision of Discarded SDUs from Discarded PDUs	4.9.0	R2	TEI
25.322	233	1	Rel-5	F	RP-030483	R2-032013	Approved	Decision of Discarded SDUs from Discarded PDUs	5.5.0	R2	TEI
25.322	234	1	R99	F	RP-030483	R2-032014	Approved	RLC Reset Triggering and Update of VT(RST)	3.15.0	R2	TEI
25.322	235	1	Rel-4	А	RP-030483	R2-032015	Approved	RLC Reset Triggering and Update of VT(RST)	4.9.0	R2	TEI
25.322	236	1	Rel-5	А	RP-030483	R2-032016	Approved	RLC Reset Triggering and Update of VT(RST)	5.5.0	R2	TEI
25.322	237	-	R99	F	RP-030483	R2-031998	Approved	Correction to the 'SDU discard with explicit signalling' procedure	3.15.0	R2	TEI
25.322	238	-	Rel-4	A	RP-030483	R2-031999	Approved	Correction to the 'SDU discard with explicit signalling' procedure	4.9.0	R2	TEI
25.322	239	-	Rel-5	A	RP-030483	R2-032000	Approved	Correction to the 'SDU discard with explicit signalling' procedure	5.5.0	R2	TEI
25.322	<del>240</del>	-	<del>R99</del>	F	RP-030478	R2-032008	Approved	Elimination of EPC mechanism	<del>3.15.0</del>	<del>R2</del>	ŦEł
25.322	240	-	R99	F	RP-030478	R2-032008	Approved	Elimination of EPC mechanism	3.15.0	R2	TEI
25.322	241	-	Rol-4	A	RP-030478	<del>R2-032009</del>	Approved	Elimination of EPC mechanism	4 <del>.9.0</del>	<del>R2</del>	ŦEł
25.322	241	-	Rel-4	А	RP-030478	R2-032009	Approved	Elimination of EPC mechanism	4.9.0	R2	TEI
25.322	<del>242</del>	-	Rel-5	A	RP-030478	<del>R2-032010</del>	Approved	Elimination of EPC mechanism	<del>5.5.0</del>	<del>R2</del>	ŦEI
25.322	242	-	Rel-5	А	RP-030478	R2-032010	Approved	Elimination of EPC mechanism	5.5.0	R2	TEI
	243	-	R99	F	RP-030483	R2-032017	Approved	Correction of MRW and RESET timers in RLC	3.15.0	R2	TEI
	244	-	Rel-4	А	RP-030483	R2-032018	Approved	Correction of MRW and RESET timers in RLC	4.9.0	R2	TEI
25.322		-	Rel-5	А	RP-030483	1	Approved	Correction of MRW and RESET timers in RLC	5.5.0	R2	TEI
25.322		-	Rel-4	F	RP-030490	R2-032023	Approved	Reconfiguration of RLC window size	4.9.0	R2	TEI4
25.322		-	Rel-5	А		R2-032024	Approved	Reconfiguration of RLC window size	5.5.0	R2	TEI4

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25.331	1991	-	R99	F	RP-030484	R2-031856	Approved	Handling of key sets at Inter-RAT Handover to UTRAN	3.15.0	R2	TEI
25.331	1992	-	Rel-4	А	RP-030484	R2-031857	Approved	Handling of key sets at Inter-RAT Handover to UTRAN	4.10.0	R2	TEI
25.331	1993	-	Rel-5	А	RP-030484	R2-031858	Approved	Handling of key sets at Inter-RAT Handover to UTRAN	5.5.0	R2	TEI
25.331	1994	-	R99	F	RP-030484	R2-031866	Approved	Correction to UE Positioning privacy procedures	3.15.0	R2	TEI
25.331	1995	-	Rel-4	А	RP-030484	R2-031867	Approved	Correction to UE Positioning privacy procedures	4.10.0	R2	TEI
25.331	1996	-	Rel-5	А	RP-030484	R2-031868	Approved	Correction to UE Positioning privacy procedures	5.5.0	R2	TEI
25.331	1997	-	Rel-5	F	RP-030495	R2-031883	Approved	Correction to UE behaviour on T317 expiry	5.5.0	R2	TEI5
25.331	1998	-	R99	F	RP-030504	R2-031884	Revised	Reconfiguration with state transition to an indicated cell on a different frequency	3.15.0	R2	TEI
25.331	1998	1	R99	F	RP-030506		Approved	Reconfiguration with state transition to an indicated cell on a different frequency	3.15.0	R2	TEI
25.331	1999	-	Rel-4	A	RP-030504	R2-031885	Revised	Reconfiguration with state transition to an indicated cell on a different frequency	4.10.0	R2	TEI
25.331	1999	1	Rel-4	A	RP-030506		Approved	Reconfiguration with state transition to an indicated cell on a different frequency	4.10.0	R2	TEI
25.331	2000	-	Rel-5	A	RP-030504	R2-031886	Revised	Reconfiguration with state transition to an indicated cell on a different frequency	5.5.0	R2	TEI
25.331	2000	1	Rel-5	A	RP-030506		Approved	Reconfiguration with state transition to an indicated cell on a different frequency	5.5.0	R2	TEI
25.331	2001	1	R99	F	RP-030484	R2-032034	Revised	START calculation	3.15.0	R2	TEI
25.331	2001	2	R99	F	RP-030520		Approved	START calculation in connected mode	3.15.0	R2	TEI
25.331	2002	1	Rel-4	А	RP-030484	R2-032035	Revised	START calculation	4.10.0	R2	TEI
25.331	2002	2	Rel-4	А	RP-030520		Approved	START calculation in connected mode	4.10.0	R2	TEI
25.331	2003	1	Rel-5	F	RP-030484	R2-032036	Revised	START calculation	5.5.0	R2	TEI
25.331	2003	2	Rel-5	А	RP-030520		Approved	START calculation in connected mode	5.5.0	R2	TEI
25.331	2004	-	R99	F	RP-030484	R2-031898	Approved	PRACH channelisation code list limitation to align with TS 25.221	3.15.0	R2	TEI
25.331	2005	-	Rel-4	A	RP-030484	R2-031899	Approved	PRACH channelisation code list limitation to align with TS 25.221	4.10.0	R2	TEI
25.331	2006	-	Rel-5	A	RP-030484	R2-031900	Approved	PRACH channelisation code list limitation to align with TS 25.221	5.5.0	R2	TEI
25.331	2007	-	R99	F	RP-030484	R2-031901	Approved	Handling of transport channel information at radio bearer release	3.15.0	R2	TEI
25.331	2008	-	Rel-4	A	RP-030484	R2-031902	Approved	Handling of transport channel information at radio bearer release	4.10.0	R2	TEI
25.331	2009	-	Rel-5	A	RP-030484	R2-031903	Approved	Handling of transport channel information at radio bearer release	5.5.0	R2	TEI
25.331	2010	-	R99	F	RP-030484	R2-031904	Rejected	Reconfiguration with transition to CELL_PCH or URA_PCH	3.15.0	R2	TEI
25.331	2011	-	Rel-4	А	RP-030484	R2-031905	Rejected	Reconfiguration with transition to CELL_PCH or URA_PCH	4.10.0	R2	TEI

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25.331	2012	-	Rel-5	А	RP-030484	R2-031906	Rejected	Reconfiguration with transition to CELL_PCH or URA_PCH	5.5.0	R2	TEI
25.331	2013	-	R99	F	RP-030485	R2-031907	Approved	Corrections for TDD for the IEs "Downlink DPCH info common for all radio links"	3.15.0	R2	TEI
25.331	2014	-	Rel-4	A	RP-030485	R2-031908	Approved	Corrections for TDD for the IEs "Downlink DPCH info common for all radio links"	4.10.0	R2	TEI
25.331	2015	-	Rel-5	A	RP-030485	R2-031909	Approved	Corrections for TDD for the IEs "Downlink DPCH info common for all radio links"	5.5.0	R2	TEI
25.331	2016	-	R99	F	RP-030485	R2-031910	Approved	TFCS selection guidelines for TFC Subset	3.15.0	R2	TEI
25.331	2017	-	Rel-4	А	RP-030485	R2-031911	Approved	TFCS selection guidelines for TFC Subset	4.10.0	R2	TEI
25.331	2018	-	Rel-5	А	RP-030485	R2-031912	Approved	TFCS selection guidelines for TFC Subset	5.5.0	R2	TEI
25.331	2019	-	Rel-4	F	RP-030491	R2-031913	Approved	Ciphering of TM SRBs	4.10.0	R2	TEI4
25.331	2020	-	Rel-5	А	RP-030491	R2-031914	Approved	Ciphering of TM SRBs	5.5.0	R2	TEI4
25.331	2021	1	Rel-4	F	RP-030491	R2-032004	Approved	Correction on PDCP Header Compression Configuration	4.10.0	R2	TEI4
25.331	2022	1	Rel-5	А	RP-030491	R2-032005	Approved	Correction on PDCP Header Compression Configuration	5.5.0	R2	TEI4
25.331	2023	-	R99	F	RP-030485	R2-031919	Approved	Value range of UE Rx-Tx time difference type 2 measurement	3.15.0	R2	TEI
25.331	2024	-	Rel-4	А	RP-030485	R2-031920	Approved	Value range of UE Rx-Tx time difference type 2 measurement		R2	TEI
25.331	2025	-	Rel-5	А	RP-030485	R2-031921	Approved	Value range of UE Rx-Tx time difference type 2 measurement	5.5.0	R2	TEI
25.331	2026	-	Rel-4	F	RP-030491	R2-031922	Approved	Corrections for TDD PUSCH	4.10.0	R2	TEI4
25.331	2027	-	Rel-5	А	RP-030491	R2-031923	Approved	Corrections for TDD PUSCH	5.5.0	R2	TEI4
25.331	2028	-	Rel-5	F	RP-030449	R2-031933	Approved	Reconfiguration of MAC-d flow	5.5.0	R2	HSDPA-L23
25.331	2029	-	Rel-5	F	RP-030495	R2-031934	Approved	Correcting value range of MAC-hs buffer ID	5.5.0	R2	HSDPA-L23
25.331	2030	-	Rel-5	F	RP-030495	R2-031935	Approved	Correction of handling of IE "MAC-hs reset indicator" in Added or Reconfigured DL TrCH information	5.5.0	R2	HSDPA-L23
25.331	2031	1	R99	F	RP-030485	R2-031972	Approved	Activation Time for DSCH	3.15.0	R2	TEI
25.331	2032	1	Rel-4	А	RP-030485	R2-031973	Approved	Activation Time for DSCH	4.10.0	R2	TEI
25.331	2033	-	Rel-5	F	RP-030485	R2-031940	Approved	Activation Time for HS-DSCH	5.5.0	R2	HSDPA-L23
25.331	2034	-	Rel-5	С	RP-030479	R2-031942	Rejected	Maintaining the RRC Connection while Emergency camped on a F-PLMN during OOS	5.5.0	R2	TEI5
25.331	2034	1	Rel-6	С	RP-030548	R2-031942	Approved	Maintaining the RRC Connection while Emergency camped on a F-PLMN during OOS	5.5.0	R2	TEI6
25.331	2035	1	Rel-5	F	RP-030495	R2-031968	Approved	UE capability signalling for UMTS1800	5.5.0	R2	RInImp- UMTS18
25.331	2036	1	R99	F	RP-030485	R2-032049	Approved	START value calculation for RLC size change	3.15.0	R2	TEI
25.331	2037	1	Rel-4	А	RP-030485	R2-032050	Approved	START value calculation for RLC size change	4.10.0	R2	TEI
25.331	2039	-	Rel-5	F	RP-030495	R2-031947	Approved	Handover between UTRAN and GERAN Iu mode	5.5.0	R2	TEI5
25.331	2040	-	Rel-5	F	RP-030495	R2-031948	Approved	Updated references to the RRC State Indicator IE	5.5.0	R2	TEI5
25.331	2041	-	Rel-5	С	RP-030495	R2-031950	Approved	Corrections to Event 1D	5.5.0	R2	TEI5
25.331	2042	-	R99	F	RP-030485	R2-031960	Approved	Correction of PDCP Configuration for RFC 2507	3.15.0	R2	TEI
25.331	2043	-	Rel-4	А	RP-030485	R2-031961	Approved	Correction of PDCP Configuration for RFC 2507	4.10.0	R2	

Spec	CR	R	Phase	Cat	TSG Doc	WG Doc	TSG Status	Subject CR to version		WG	Workitem
25.331	2044	-	Rel-5	F	RP-030485	R2-031962	Approved	Correction of PDCP Configuration for RFC 2507	5.5.0	R2	TEI
25.331	2046	-	R99	F	RP-030486	R2-031974	Approved	Corrections to event list handling	3.15.0	R2	TEI
25.331	2047	-	Rel-4	А	RP-030486	R2-031975	Approved	Corrections to event list handling	4.10.0	R2	TEI
25.331	2048	-	Rel-5	А	RP-030486	R2-031976	Approved	Corrections to event list handling	5.5.0	R2	TEI
25.331	2049	-	R99	F	RP-030486	R2-031977	Approved	Corrections to RACH reporting	3.15.0	R2	TEI
25.331	2050	-	Rel-4	А	RP-030486	R2-031978	Approved	Corrections to RACH reporting	4.10.0	R2	TEI
25.331	2051	-	Rel-5	А	RP-030486	R2-031979	Approved	Corrections to RACH reporting	5.5.0	R2	TEI
25.331	2052	-	R99	F	RP-030486	R2-031980	Approved	Corrections to modification of Additional Measurement lists	3.15.0	R2	TEI
25.331	2053	-	Rel-4	F	RP-030486	R2-031981	Approved	Corrections to modification of Additional Measurement lists	4.10.0	R2	TEI
25.331	2054	-	Rel-5	А	RP-030486	R2-031982	Approved	Corrections to modification of Additional Measurement lists	5.5.0	R2	TEI
25.331	2055	1	R99	F	RP-030486	R2-032048	Approved	UE positioning support in the UE	3.15.0	R2	TEI
25.331	2056	-	Rel-4	А	RP-030486	R2-031987	Approved	UE positioning support in the UE	4.10.0	R2	TEI
25.331	2057	-	Rel-5	F	RP-030486	R2-031988	Approved	UE positioning support in the UE	5.5.0	R2	TEI
25.331	2058	1	R99	F	RP-030486	R2-032043	Revised	Corrections for minimum UE capability class	3.15.0	R2	TEI
25.331	2058	2	R99	F	RP-030552	R2-032043	Rejected	Corrections for minimum UE capability class	3.15.0	R2	TEI
25.331	2059	1	Rel-4	А	RP-030486	R2-032044	Revised	Corrections for minimum UE capability class	4.10.0	R2	TEI
25.331	2059	2	Rel-4	А	RP-030552	R2-032044	Rejected	Corrections for minimum UE capability class	4.10.0	R2	TEI
25.331	2060	1	Rel-5	А	RP-030486	R2-032045	Revised	Corrections for minimum UE capability class	5.5.0	R2	TEI
25.331	2060	2	Rel-5	А	RP-030552	R2-032045	Rejected	Corrections for minimum UE capability class	5.5.0	R2	TEI
25.331	2061	-	Rel-5	F	RP-030462	R2-032006	Approved	HS-SCCH transmit diversity mode	5.5.0	R2	HSDPA-L23
25.331	2062	-	R99	F	RP-030478	R2-032020	Approved	Elimination of EPC mechanism	3.15.0	R2	TEI
25.331	2063	-	Rel-4	А	RP-030478	R2-032021	Approved	Elimination of EPC mechanism	4.10.0	R2	TEI
25.331	2064	-	Rel-5	А	RP-030478	R2-032022	Approved	Elimination of EPC mechanism	5.5.0	R2	TEI
25.331	2065	-	Rel-5	С	RP-030502	R2-032025	Rejected	Scrambling code & phase reference combinations for HS- DSCH (solution 1)	5.5.0	R2	HSDPA-L23
25.331	2066	-	Rel-5	F	RP-030503	R2-032025	Approved	Scrambling code & phase reference combinations for HS- DSCH (solution 2)	5.5.0	R2	HSDPA-L23
25.331	2067	-	R99	F	RP-030486	R2-032029	Approved	UE behaviour in transition from CELL_DCH to CELL_FACH/ CELL_PCH/URA_PCH and Out of Service is detected	3.15.0	R2	TEI
25.331	2068	-	Rel-4	A	RP-030486	R2-032030	Approved	UE behaviour in transition from CELL_DCH to CELL_FACH/ CELL_PCH/URA_PCH and Out of Service is detected	4.10.0	R2	TEI
25.331	2069	-	Rel-5	F	RP-030486	R2-032031	Approved	UE behaviour in transition from CELL_DCH to CELL_FACH/ CELL_PCH/URA_PCH and Out of Service is detected	5.5.0	R2	TEI
25.331	2070	2	R99	F	RP-030505	R2-032055	Approved	Radio link failure during reconfiguration procedure	3.15.0	R2	TEI
25.331	2071	2	Rel-4	А	RP-030505	R2-032056	Approved	Radio link failure during reconfiguration procedure	4.10.0	R2	TEI
25.331	2072	1	Rel-5	F	RP-030505	R2-032054	Approved	Radio link failure during reconfiguration procedure	5.5.0	R2	TEI
25.413	578	-	Rel-5	F	RP-030445	R3-031019	Approved	Alignment of title and sub-clause text of chapter 10.3.4.2	5.5.0	R3	TEI5
25.413	582	1	R99	F	RP-030437	R3-031141	Approved	Essential Correction of lu Release Request issue	3.13.0	R3	TEI
25.413		1	Rel-4	А	RP-030437	R3-031142	Approved	Essential Correction of lu Release Request issue	4.9.0	-	TEI

Spec	CR	R	Phase	Cat	TSG Doc	WG Doc	TSG Status	Subject	CR to version	WG	Workitem
25.413	584	1	Rel-5	А	RP-030437	R3-031143	Approved	Essential Correction of Iu Release Request issue	5.5.0	R3	TEI
25.413	586	2	Rel-5	В	RP-030439	R3-031234	Approved	Introduction of positioning methods	5.5.0	R3	TEI5
25.413	590	1	Rel-5	F	RP-030439	R3-031166	Approved	Alignment of RANAP and RNSAP CRRM solutions	5.5.0	R3	RANimp-RRM1
25.413	594	-	Rel-5	F	RP-030439	R3-031150	Approved	RNC use of IMSI within Relocation Resource Allocation	5.5.0	R3	TEI5
25.413	595	-	Rel-5	F	RP-030446	R3-031159	Approved	Removal of the "Note" in chapter 10	5.5.0	R3	TEI5
25.419	118	-	Rel-5	F	RP-030445	R3-031020	Approved	Alignment of title and sub-clause text of chapter 10.3.4.2	5.4.0	R3	TEI5
25.419	119	1	Rel-5	F	RP-030446	R3-031160	Approved	Removal of the "Note" in chapter 10	5.4.0	R3	TEI5
25.419	123	2	Rel-4	F	RP-030438	R3-031249	Approved	Correction of Number of Broadcast to be Reported	4.8.0	R3	TEI4
25.419	124	2	Rel-5	А	RP-030438	R3-031250	Approved	Correction of Number of Broadcast Reported	5.4.0	R3	TEI4
25.423	843	2	Rel-5	F	RP-030451	R3-031229	Approved	Discard timer signalling for HSDPA	5.6.0	R3	HSDPA-lublur
25.423	844	1	Rel-5	F	RP-030452	R3-031177	Approved	Phase Reference Signalling Support	5.6.0	R3	TEI5
25.423	847	2	Rel-5	F	RP-030449	R3-031214	Approved	HS-DSCH Priority Queue to Modify	5.6.0	R3	HSDPA-lublur
25.423	848	1	Rel-5	F	RP-030450	R3-031137	Revised	MAC-hs Reordering Buffer Size	5.6.0	R3	HSDPA-lublur
25.423	848	2	Rel-5	F	RP-030536	R3-031137	Approved	MAC-hs Reordering Buffer Size	5.6.0	R3	HSDPA-lublur
25.423	850	-	R99	F	RP-030443	R3-030993	Approved	Corrections to Tx Diversity	3.13.0	R3	TEI
25.423	851	-	Rel-4	А	RP-030443	R3-030994	Approved	Corrections to Tx Diversity	4.9.0	R3	TEI
25.423	852	-	Rel-5	А	RP-030443	R3-030995	Approved	Corrections to Tx Diversity	5.6.0	R3	TEI
25.423	853	1	Rel-5	F	RP-030440	R3-031168	Approved	Correction of the Measurement Increase/Decrease Threshold IE	5.6.0	R3	TEI5
25.423	855	-	Rel-4	F	RP-030444	R3-031005	Approved	"On Modification" and "Periodic" reporting alignment for Information Exchange procedures	4.9.0	R3	TEI4
25.423	856	-	Rel-5	A	RP-030444	R3-031006	Approved	"On Modification" and "Periodic" reporting alignment for Information Exchange procedures	5.6.0	R3	TEI4
25.423	857	-	Rel-5	F	RP-030445	R3-031021	Approved	Alignment of title and sub-clause text of chapter 10.3.4.2	5.6.0	R3	TEI5
25.423	858	-	Rel-5	F	RP-030440	R3-031030	Approved	Corrections on Uplink Signalling Tranfer	5.6.0	R3	TEI5
25.423	860	2	Rel-5	F	RP-030447	R3-031216	Approved	Coordination with RRC about the TFS of DL DCH for HS- DSCH	5.6.0	R3	HSDPA-lublur
25.423	862	1	Rel-5	F	RP-030453	R3-031151	Approved	HS-DSCH information usage description clarification	5.6.0	R3	HSDPA-lublur
25.423	865	1	Rel-5	F	RP-030440	R3-031167	Approved	RNSAP correction for CRRM alignment	5.6.0	R3	TEI5, RANimp- ImpRRM
25.423	866	-	Rel-5	F	RP-030446	R3-031161	Approved	Removal of the "Note" in chapter 10	5.6.0	R3	TEI5
25.424	025	1	Rel-5	F	RP-030448	R3-031231	revised	Handling of maximum bit rate exceeding 2048Kbit/s	5.1.0	R3	HSDPA-lublur
25.424	025	2	Rel-5	F	RP-030507	-	Revised	Handling of maximum bit rate exceeding 2048Kbit/s	5.1.0	R3	HSDPA-lublur
25.424	025	3	Rel-5	F	RP-030538	-	Approved	Handling of maximum bit rate exceeding 2048Kbit/s	5.1.0	R3	HSDPA-lublur
25.426	031	1	Rel-5	F	RP-030448	R3-031232	revised	Handling of maximum bit rate exceeding 2048Kbit/s	5.2.0	R3	HSDPA-lublur
25.426	031	2	Rel-5	F	RP-030507	-	Revised	Handling of maximum bit rate exceeding 2048Kbit/s	5.2.0	R3	HSDPA-lublur
25.426	031	3	Rel-5	F	RP-030538	-	Approved	Handling of maximum bit rate exceeding 2048Kbit/s	5.2.0	R3	HSDPA-lublur
25.427	089	1	Rel-5	F	RP-030447	R3-031218	Approved	Coordination with RRC about the TFS of DL DCH for HS- DSCH	5.1.0	R3	HSDPA-lublur

Spec	CR	R	Phase	Cat	TSG Doc	WG Doc	TSG Status	Subject	CR to version	WG	Workitem
25.433	868	2	Rel-5	F	RP-030451	R3-031230	Approved	Discard timer signalling for HSDPA	5.5.0	R3	HSDPA-lublur
25.433	869	1	Rel-5	F	RP-030452	R3-031178	Approved	Phase Reference Signalling Support	5.5.0	R3	TEI5
25.433	874	2	Rel-5	F	RP-030449	R3-031215	Approved	HS-DSCH Priority Queue to Modify	5.5.0	R3	HSDPA-lublur
25.433	875	1	Rel-5	F	RP-030450	R3-031138	Revised	MAC-hs Reordering Buffer Size	5.5.0	R3	HSDPA-lublur
25.433	875	2	Rel-5	F	RP-030536	R3-031138	Approved	MAC-hs Reordering Buffer Size	5.5.0	R3	HSDPA-lublur
25.433	876	1	Rel-5	F	RP-030441	R3-031139	Approved	Correction of HS-SCCH Code IE	5.5.0	R3	HSDPA-lublur
25.433	877	1	Rel-5	F	RP-030441	R3-031169	Approved	Power configuration of PDSCH for TDD	5.5.0	R3	TEI5
25.433	879	-	R99	F	RP-030443	R3-030996	Approved	Corrections to Tx Diversity	3.13.0	R3	TEI
25.433	880	-	Rel-4	А	RP-030443	R3-030997	Approved	Corrections to Tx Diversity	4.9.0	R3	TEI
25.433	881	-	Rel-5	А	RP-030443	R3-030998	Approved	Corrections to Tx Diversity	5.5.0	R3	TEI
25.433	883	-	Rel-4	F	RP-030444	R3-031007	Approved	"On Modification" and "Periodic" reporting alignment for Information Exchange procedures	4.9.0	R3	TEI4
25.433	884	-	Rel-5	A	RP-030444	R3-031008	Approved	"On Modification" and "Periodic" reporting alignment for Information Exchange procedures	5.5.0	R3	TEI4
25.433	886	-	Rel-5	F	RP-030445	R3-031022	Approved	Alignment of title and sub-clause text of chapter 10.3.4.2	5.5.0	R3	TEI5
25.433	887	1	Rel-5	F	RP-030446	R3-031162	Approved	Removal of the "Note" in chapter 10	5.5.0	R3	TEI5
25.433	888	1	Rel-5	F	RP-030441	R3-031140	Approved	Correction for the start code number of HS-PDSCH	5.5.0	R3	HSDPA-lublur
25.433	890	2	Rel-5	F	RP-030447	R3-031217	Approved	Coordination with RRC about the TFS of DL DCH for HS- DSCH	5.5.0	R3	HSDPA-lublur
25.433	893	2	Rel-5	F	RP-030453	R3-031219	Approved	HS-DSCH information usage description correction	5.5.0	R3	HSDPA-lublur
25.433	894	-	Rel-5	F	RP-030441	R3-031052	Approved	Correction of CR 609 implementation error on definition of end of audit sequence indicator and dwPCH power	5.5.0	R3	TEI5
25.433	898	2	Rel-5	F	RP-030441	R3-031149	Approved	Clarification to the Constant Value for TDD	5.5.0	R3	TEI5
25.434	027	1	Rel-5	F	RP-030448	R3-031233	revised	Handling of maximum bit rate exceeding 2048Kbit/s	5.1.0	R3	HSDPA-lublur
25.434	027	2	Rel-5	F	RP-030507	-	Revised	Handling of maximum bit rate exceeding 2048Kbit/s	5.1.0	R3	HSDPA-lublur
25.434	027	3	Rel-5	F	RP-030538	-	Approved	Handling of maximum bit rate exceeding 2048Kbit/s	5.1.0	R3	HSDPA-lublur
25.453	051	-	Rel-5	F	RP-030442	R3-031001	Approved	Correction to an incorrect implementation in the Requested Data Value Information IE	5.6.0	R3	TEI5
25.453	052	-	Rel-6	A	RP-030442	R3-031002	Approved	Correction to an incorrect implementation in the Requested Data Value Information IE	6.1.0	R3	TEI5
25.453	053	-	Rel-5	F	RP-030445	R3-031023	Approved	Alignment of title and sub-clause text of chapter 10.3.4.2	5.6.0	R3	TEI5
25.453	054	-	Rel-6	A	RP-030445	R3-031024	Approved	Alignment of title and sub-clause text of chapter 10.3.4.2	6.1.0	R3	TEI5
25.453	058	-	Rel-5	F	RP-030446	R3-031163	Approved	Removal of the "Note" in chapter 10	5.6.0	R3	TEI5
25.453	059	-	Rel-6	A	RP-030446	R3-031164	Approved	Removal of the "Note" in chapter 10	6.1.0	R3	TEI5
25.453	060	-	Rel-6	С	RP-030454	R3-031239	Approved	Improvement of position calculation with pathloss	6.1.0	R3	LCS-Rel4Pos
25.921	045	-	R99	F	RP-030488	R2-031844	Approved	Guideline on introducing additional SIB types	3.8.0	R2	TEI
25.921	046	-	Rel-4	A	RP-030488	R2-031845	Approved	Guideline on introducing additional SIB types	4.5.0	R2	TEI
25.921	047	-	Rel-5	A	RP-030488	R2-031846	Approved	Guideline on introducing additional SIB types	5.1.0	R2	TEI
25.922		1	Rel-5	F	RP-030496	R2-031711	Approved	UTRAN-GERAN handovers	5.0.0		TEI5

Spec	CR	R	Phase	Cat	TSG Doc	WG Doc	TSG Status	Subject	CR to version	WG	Workitem
25.922	024	-	Rel-5	С	RP-030496	R2-031951	Approved	Admission Control strategies in case of Handover	5.0.0	R2	TEI5
25.922	025	-	Rel-5	С	RP-030496	R2-031952	Approved	Example of congestion control strategies	5.0.0	R2	TEI5
25.942	011	1	Rel-6	F	RP-030422	R4-030783	Approved	Methodology for coexistence studies of UTRA FDD with other radio technologies	6.0.0	R4	RInImp- UMTS850
25.951	002	1	Rel-6	В	RP-030424	R4-030820	Approved	Localised interference in an operator's own network	6.1.0	R4	RInImp- BSClass-FDD
25.993	011	-	R99	F	RP-030489	R2-031847	Rejected	Corrections on required capabilities for 32kbps UE class	6.2.0	R2	TEI
25.993	012	-	Rel-5	F	RP-030497	R2-031954	Approved	IMS RAB scenarios	6.2.0	R2	TEI5
25.993	013	-	R99	F	RP-030489	R2-031954	Approved	Addition of Streaming RABs	6.2.0	R2	TEI
25.996	001	2	Rel-6	F	RP-030461	R1-030886	Approved	Corrections and clarifications to Spatial Channel Model Technical Report	6.0.0	R1	RinImp-MIMO

# Annex D: List of actions

All WGs: To review the TR22.952,"Priority Service Guide", and provide comments to SA WG1 (RP-030470)

- WG2:To decide where to incorporate the 768 kpbs RAB, TR25.993 or TS34.108 (sec 7.2.1)To come to a new definition of a "Minimum UE capabilities class" based on the CRs in RP-030552
- WG3: To study the problem of loss of sync on the UL when in softHO and to present a full solution (RP-030544)
- WG4: To change the misleading reference to  $\frac{\text{IS}-951\text{X}}{\text{IS}}$  for the correct to cdma2000 (RP-030422)

# Annex E: Meeting schedule

#### TSG RAN WG1 meetings:

Meeting #	Date	Host	Location
3 <u>4</u> 5	6-10 October 2003	Samsung	Seoul, Korea
3 <u>5</u> 6	17-21 November 2003	European Friends of 3GPP	Lisbon, Portugal
<u>36</u>	<u> 16 - 20 February 2004</u>	European Friends of 3GPP	Málaga, Spain
37	10-14 May 2004		EuropeUS (TBD)
38	<del>23-27<u>16 - 20</u> August 2004</del>	European Friends of 3GPP	Europe/USPrague, Czech
			Republic
39	15-19 November 2004	<u>NEC</u>	Shin Yokohama, Japan
			(TBC)Asia/US

#### TSG RAN WG2 & WG3 meetings:

Meeting #	Date	Host	Location
38	06 - 10 October 2003	ETSI	Sophia Antipolis, France
39	17 - 21 November 2003	Qualcomm/NA Friends <u>of</u> <u>3GPP</u>	San Diego, US
40	12 - 16 January 2004	ETSI	Sophia Antipolis, France
41	16 - 20 February 2004	European Friends of 3GPP	<u>Málaga, Spain</u> Europe
42	10 - 14 May 2004		US <u>(TBD)</u> A
43	16 - 20 August 2004	European Friends of 3GPP	<u>Prague, Czech</u> <u>Republic<mark>Europo</mark></u>
44	4 - 8 October 2004	ETSI	Sophia Antipolis, France (TBC)
45	15 - 19 November 2004	NEC	<u>Shin Yokohama.</u> Japan(TBC) <mark>Asia</mark>

#### TSG RAN WG4 meetings:

Meeting #	Date	Host	Location
29	17 - 21 November 2003	Qualcomm	San Diego, US
30	9 - 13 February 2004	Rohde & Schwarz	Munich, Germany
31	17 - 21 May 2004		China
32	16 -20 August 2004	European Friends of 3GPP	Prague, Czech
			RepublicEurope (co located
			<del>WG2)</del>
33	15 - 19 November 2004	<u>NEC</u>	Shin Yokohama,
			<u>Japan(TBC)</u> USA

### TSG RAN meetings:

Meeting #	Date	Host	Location
22	09 - 12 December 2003	ARIB/TTC/NA Friends of 3GPP	Hawaii, US
23	09 - 12 March 2004		Phoenix, US
24	01 - 04 June 2004		Korea
25	07 - 10 September 2004		USA
26	07 - 10 December 2004	European Friends of 3GPP	Athens, Greece (tbc)

# Annex F: Summary of RAN Work Items

This table lists RAN Work Items, existing and new, discussed at meeting #21. 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

Туре	WI name	Acronym	Leading WG	%	Finish date	Status Report	Remarks
Feat	Improvements of Radio Interface	RInImp	RP		March 2004		
BB	Improvement of inter-frequency and inter-system measurement	RInImp-IfIsM	R1	10	March 2004	RP-030377	Completion date changed from September 2003
BB	Improving Receiver Performance Requirements for the FDD UE	RInImp- UERecPerf	R4	100	September 2003	RP-030378	The WI is concluded
BB	UMTS-850	RInImp-UMTS850	R4	40	March 2004	RP-030379	
BB	DS-CDMA introduction in the 800 MHz band	RInImp-UMTS800	R4	45	December 2003	RP-030380	Completion date changed from September 2003
BB	UMTS 1.7/2.1 GHz	RInImp- UMTS1721	R4	35	December 2003	RP-030381	
Feat	RAN improvements	RANimp	RP		March 2004		
BB	RAB support enhancement	RANimp-RABSE	R2	5	March 2004	RP-030414	New rapporteur: Juha Mikola, Nokia
WT	Iu enhancements for IMS support in RAN	RANimp-RABSE- luEnhIMS	R3	10	March 2004	RP-030382	
BB	Improvement of RRM across RNS and RNS/BSS	RANimp-RRM1	R3	35	December 2003	RP-030383	The WI is closed
BB	Beamforming Enhancements	RANimp-BFE	R1	90	December 2003	RP-030384	Completion date changed from September 2003
BB	Rel6 RRM optimization for lur and lub	RANimp-RRMopt	R3		September 2003		
New WT	Improved access to User Equipment (UE) measurement data for Controlling Radio Network Controller (CRNC) to support Time Division Duplex (TDD) Radio Resource Management (RRM)	RANimp-RRMopt- UEMsD	R3		March 2004		WIDS in RP-030539
BB	Remote Control of Electrical Tilting Antennas	RANimp-TiltAnt	R3	15	March 2004	RP-030385	Completion date changed from December 2003
BB	Network Assisted Cell Change (NACC) from UTRAN to GERAN - network-side aspects	RANimp-NACC	R3	30	December 2003	RP-030386	
Feat	Multiple Input Multiple Output antennas (MIMO)	MIMO	R1		December 2004		The acronym has changed from RInImp-MIMO
BB	Multiple Input Multiple Output antennas - Physical layer	MIMO-Phys	R1	30	March 2004	RP-030390	· · · · · · · · · · · · · · · · · · ·
BB	Multiple Input Multiple Output antennas - Layer 2,3 aspects	MIMO-L23	R2	0	March 2004	RP-030391	
BB	Multiple Input Multiple Output antennas - Iub/Iur Protocol Aspects	MIMO-lurlub	R3	0	March 200419 September 2003	RP-030392	
BB	Multiple Input Multiple Output antennas - RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing	MIMO-RF	R4	15	December 2004	RP-030393	
Feat	Evolutions of the transport in the UTRAN	ETRAN	RP		December 2003		
BB	Introduction of MBMS in RAN	MBMS-RAN	R2	40	March 2004	RP-030389	

Туре	WI name	Acronym	Leading WG	%	Finish date	Status Report	Remarks
BB WT	UE positioning UE positioning enhancements - other methods	LCS2-UEpos LCS2-UEpos-enh	RP R2		March 2004 September 2003		
WT	Open SMLC-SRNC Interface within the UTRAN to support UTRAN Rel4 positioning methods	LCS-Rel4Pos	R2	100	September 2003	RP-030387	WI finished
WT	A-GPS minimum performance specification	LCS-UEPos- AGPSPerf	R4	10	March 2004	RP-030388	
WT	Subscriber and equipment trace in UTRAN	OAM-Trace-RAN	R3	15	March 2004	RP-030394	Completion date changed from September 2003
New BB	Enhancement of the support of network sharing in the UTRAN	NTShar- UTRANEnh	R2		March 2004		WIDS in RP-030549, new BB under the network sharing feature from SA WG1

Туре	SI name	WI acronym	Leading WG	%	Finish date	Status report	Remarks
SI	FS on Radio link performance enhancements	RInImp-RIperf	R1		March 2004	RP-030395	
SI	FS on UTRA WideBand Distribution Systems	RInImp-WDS	R4	50	March 2004	RP-030396	
SI	FS on Improvement of inter-frequency and inter-system measurements for 1.28 Mcps TDD	RInImp-IfIsMLCR	R1	100	September 2003	RP-030397	The Study is finished
SI	FS for the analysis of OFDM for UTRAN enhancement	RInImp-FSOFDM	R1	40	June 2004	RP-030398	Completion date changed from December 2003
SI	FS on Uplink Enhancements for Dedicated Transport Channels	RInImp- FSUpDTrCh	R1	50	December 2003	RP-030399	
SI	FS on Analysis on Higher Chip Rates for UTRA TDD evolutions	RInImp- FSVHCRTDD	R1	50	December 2003	RP-030400	
SI	FS on Low Output Powers for general purpose FDD BSs	Rinimp- <u>FSLoPw</u> FSLOP	R3	50	December 2003	RP-030404	The WG in charge is changed from R4 to R3, new rapporteur: Ana Burgos, Telefónica
SI	FS on the evolution of the UTRAN architecture	RANimp-FSEvo	R3	20	March 2004	RP-030401	The completion date is changed from December 2003
SI	FS of the improved access to UE measurement data for CRNC to support TDD RRM	RANimp-RRMopt- FSUEMsD	R3	100	September 2003	RP-030402	The Study is finished
SI	FS on Enhancements to OTDOA Positioning using advanced blanking methods	LCS2-UEpos- FSBlank	R2		September 2003	RP-030403	The Study is closed
SI	FS on Uplink enhancements for UTRA TDD	RInImp- FSUpEnhTDD	R1	5	March 2004	RP-030545	