

Mueller Exhibit 42

Agenda item 3
Title: Approved Report of 3GPP TSG RAN WG1 #41 in Athens
 (Athens, Greece, 09 – 13 May, 2005)
Document for: Approval
Source: TSG RAN WG1 Secretary



Notes:

All timestamps in this document are in GMT+3H unless otherwise noted.

Fact Summary

Meeting: 3GPP TSG RAN WG1 #41
Dates: 09th through 13th May, 2005
Venue: DIVANI CARAVEL Hotel, Athens, Greece
Host: European Friends of 3GPP
Attendees: 121 delegates
Documents: 202 (including some withdrawn and post-meeting artefacts)

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Executive summary

WG RAN1 #41 took place in DIVANI CARAVEL Hotel - Athens, Greece. The meeting started at 9:00 on Monday 9th May 2005 and finished at 12:00 on Friday 13th.

On Monday, incoming LSs were treated and CRs from R99 to Rel-6 were handled. Many CRs including Feature Clean Up were agreed finally. On Tuesday, The topic was on FDD enhanced uplink. The open issues including Gain factors, measurements for RRM, and also remaining CRs were discussed.

On Wednesday and Thursday, LTE sessions were held. The simulation parameters for Multiple Access evaluation and Multiple Access schemes were discussed. System assumptions and evaluation for EUTRA were endorsed.

On Friday, final day, the remaining CRs and some draft outgoing LS were treated.

The number of contribution documents for this meeting was 202 (including revised and withdrawn documents), and those documents were categorized as followed.

Agenda Item	Input Document	Discussed Document
Liaison statement handling	17	17
Maintenance of R99, Rel4, Rel5, Rel6	48	48
FDD Enhanced Uplink	51	51
IMS (RAB support enhancement work item)	0	0
Improved Support of IMS Real-time Services using HSDPA/HSUPA	0	0
1.28 Mcps TDD Channelisation Code Optimisation	4	4
3.84 Mcps TDD Enhanced Uplink	4	4
7.68 Mcps TDD Option	5	5
Evolved UTRA and UTRAN (Physical Layer)	47	47

1. Opening of the meeting

09/05/2005 09:05

The RAN1 convener, Mr. Dirk Gerstenberger and welcomed the participants to the 41st RAN WG1 and opened the meeting at 09.00am.

Mr. Dirk Gerstenberger from Ericsson welcomed the delegates on behalf of the European Friends of 3GPP.

Note: At the last RAN meeting (RAN#27), the reorganization of RAN working groups and the new working groups (WG RAN1, 2, 3, 4, and 5) were approved. The election for the chairman of RAN1 working will be held at RAN1 #42 meeting in August of 2005. Until the meeting, the former RAN1 chairman, Mr. Dirk Gerstenberger runs the RAN1 meeting as a convener.

1.1 Call for IPR

09/05/2005 09:10

The Chairman drew attention to Members' obligations under the 3GPP Partner Organizations' IPR policies. Every Individual Member organization is obliged to declare to the Partner Organization or Organizations of which it is a member any IPR owned by the Individual Member or any other organization which is or is likely to become essential to the work of 3GPP.

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 <http://webapp.etsi.org/Ipr/>).

NOTE: IPRs may be declared to the Director-General or Chairman of the SDO, but not to the RAN WG1 Convener.

2 Approval of the agenda

R1-050375 Draft Agenda

(RAN1 Convener)

09/05/2005 09:10 Presented by Mr. Dirk Gerstenberger.

Mr. RAN1 convener explained the time schedule for this week.

Decision: ~~the document was approved~~

3. Approval of the minutes from previous meeting

R1-050376 Draft report from RAN1#40bis

(RAN1 Secretary)

09/05/2005 09:15 Presented by Mr. Yoshikazu Ishii.

Discussion (Question / Comment): No

Decision: ~~the document was approved~~

R1-050574 Approved report from RAN1#40bis

(RAN1 Secretary)

4. RAN1 election information

Note: Elections in RAN1 are decided by the PCG to take place at RAN1#42.

5. Liaison statement handling

**R1-050377 LS on S-CCPCH Power Offset Signaling for MBMS (To:RAN1, RAN4,
Cc:RAN3) (WG RAN2, Motorola)**

09/05/2005 09:20 Presented by Mr. Mark Harrison

Discussion (Question / Comment): There was a comment from Siemens and Panasonic that the documents related to this LS was submitted (R1-050441 and R1-050472).

Decision: This document was noted. It was decided to revisit after discussion of R1-050441 and R1-050472. After the discussion about those documents, the draft reply LS was prepared in R1-050539.

**R1-050539 Draft Reply LS on S-CCPCH power offset signalling for MBMS
(Siemens, Motorola)**

11/05/2005 08:45 Presented by Dr. Thomas Chapman

Discussion (Question / Comment): The comment and concern were raised on step size (1dB / 0.25dB) and a long discussion continued.

Decision: This document was revised in R1-050560.

**R1-050560 Draft Reply LS on S-CCPCH power offset signalling for MBMS
(Siemens, Motorola)**

11/05/2005 21:00 Presented by Dr. Thomas Chapman

Discussion (Question / Comment): From IPWireless comment, the document was revised as followed.

“The most appropriate value to signal would be the difference between the S-CCPCH power offset in the current cell (i.e. the cell in which MCCH is being received) and an S-CCPCH power offset in a neighbour cell”

Decision: ~~This draft LS was approved in R1-050539~~ with the above modification.

R1-050561 Reply LS on S-CCPCH power offset signalling for MBMS (WG RAN1)

**R1-050378 LS on MBMS UE capability update for FDD (To:RAN1, Cc:RAN3, RAN4)
(WG RAN2, Motorola)**

09/05/2005 09:25 Presented by Mr. Mark Harrison

Discussion (Question / Comment): It was commented that principal agreement was OK and it should be improved regarding the words.

Decision: This document was noted. It was decided to discuss offline on wording improvement for the CR, and send reply LS on Tuesday in R1-050510.

After the offline discussion, the LS is not necessary to send. So this document (R1-050510) was withdrawn.

**R1-050379 LS on MBMS S-CCPCH timing offset (To:RAN3, Cc:RAN1)
(WG RAN2, Ericsson)**

09/05/2005 09:35 Presented by Dr. Stefan Parkvall

Discussion (Question / Comment): There are some concerns on the adjustment of PhCH timing, it does not need to move the timing of PhCH.

Decision : This document was noted. Adjustment of PhCH timing is not desired way to go, CFN/SFN alignment (as proposed in RAN2 updated CR is preferable). MBMS Timing offsets as agreed by RAN2 are endorsed by RAN1.

**R1-050380 LS on Long Term Evolution for the UTRA and UTRAN (To:RAN, RAN1,
RAN2, RAN3, RAN4, RAN5, Cc:SA) (WG SA1, NTT DoCoMo)**

09/05/2005 09:50 Presented by Mr. Tekehiro Nakamura from NTT DoCoMo

Discussion (Question / Comment): It was commented that for real-time service we should discuss about throughput, not peak bite rate. From RAN1 convenor, it was commented that we are now on the primary stage and it is necessary to discuss more in the LTE joint session.

Decision: This document was noted.

R1-050381 **Reply LS on MBMS User Service finalization from SA4 (To:SA4, Cc:RAN1, RAN2, RAN3, RAN4, SA1, SA3, CT1, CT3)** **(WG SA2, NEC)**

Decision: This document was noted.

R1-050382 **LS on Update Submission for UTRA FDD and TDD toward Revision 6 of Recommendation ITU-R M.1457 (To: RAN1, RAN2, RAN3, RAN4, RAN5)** **(ITU-T Ad Hoc)**

09/05/2005 10:00 Presented by Mr. Enrico Buracchini from Telecomm ITALIA.

Discussion (Question / Comment):

Decision: It was decide to make the draft Reply LS in Tdoc R1-050511.

R1-050511 **DRAFT Response LS to ITU-R Ad Hoc** **(Telecomm ITALIA)**

09/05/2005 18:15 Presented by Mr. Enrico Buracchini from Telecomm ITALIA.

Decision: This draft LS was approved in Tdoc R1-050535.

R1-050535 **Response LS to ITU-R Ad Hoc** **(WG RAN1)**

R1-050477 **Draft LS to RAN2 on the Introduction of Streaming RABs over HSDPA** **(Siemens, T-mobile)**

09/05/2005 10:00 Presented by Ms. Malgorzata Banys from Siemens

Discussion (Question / Comment):

Decision: This draft LS was approved in Tdoc R1-050512.

R1-050512 **LS on the Introduction of Streaming RABs over HSDPA** **(WG RAN1)**

R1-050496 **LS on verification of parameters for proposed HSDPA Streaming RABs in 34.108 (To: RAN1, RAN2)** **(WG RAN5, Lucent)**

09/05/2005 10:05 Presented by Dr. Rainer Bachl from Lucent Technologies

Discussion (Question / Comment): It was concerned on what is the different between streaming and interactive/background.

Decision: It was decided to make the draft LS reply in Tdoc R1-050513 by Lucent and check parameters until Friday. From L1 there seems to be no difference between interactive/background and streaming.

R1-050513 **[DRAFT] Reply LS on verification of parameters for proposed HSDPA Streaming RABs** **(Lucent Technologies)**

13/05/2005 08:55 Presented by Dr. Rainer Bachl.

Discussion (Question / Comment):

Decision: This draft LS was approved in R1-050566.

R1-050566 **Reply LS on verification of parameters for proposed HSDPA Streaming RABs** **(WG RAN1)**

R1-050564 **LS on Radio link failure criteria on Fractional DPCH (To :RAN2, Cc : RAN1,RAN4)** **(WG RAN3)**

13/05/2005 08:55 Presented by Mr. Markku Tarkiainen from Nokia

Discussion (Question / Comment):

Decision: This document was noted.

Withdrawn

R1-050510 **Draft reply LS to R1-050378** **(Motorola)**

6. Maintenance of R99, Rel4, Rel5, Rel6

6.1 R99 CRs + shadow CRs

No inputs

6.2 Rel4 CRs + shadow CRs

R1-050410 25.224CR142(Rel4, F)CR143(Rel5, A)CR144(Rel6, A) "Clarification of UpPCH Sub-channel for 1.28 Mcps TDD "
(ZTE/CCSA)

09/05/2005 10:10 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment): It was commented from RAN1 convenor that Rel-4 CR should be considered the isolated impact and backwards compatibility for previous UE.

Decision: Rel4 CR misses the isolated impact analysis, not clear how severe the change/clarification is. It was decided to update CRs in R1-050514.

R1-050514 25.224CR144r1(Rel6, F) "Clarification of UpPCH Sub-channel for 1.28 Mcps TDD "
(ZTE/CCSA)

13/05/2005 09:00 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment): The comment from Philips was raised on 5.6.1A and the CR was revised. And also WI and revised mark needed to be modified.

Decision: This CR was revised in R1-050567.

R1-050567 25.224CR144r2(Rel6, F) "Clarification of UpPCH Sub-channel for 1.28 Mcps TDD "
(ZTE/CCSA)

13/05/2005 11:55 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050411 25.221CR122(Rel4, F)CR123(Rel5, A)CR124(Rel6, A) "Correction to Transmission of SS for 1.28 Mcps TDD "
(ZTE/CCSA)

09/05/2005 10:20 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment): It should be explained on the cover sheet how impact there are if this CR is implemented or not.

Decision: It was decided to update CR in Tdoc R1-050515 as same as R1-050410.

R1-050515 25.221CR122r1(Rel4, F)CR123r1(Rel5, A)CR124r1(Rel6, A) "Correction to Transmission of SS for 1.28 Mcps TDD "
(ZTE/CCSA)

13/05/2005 09:05 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment):

Decision: This CR was agreed. After the meeting, the revision number on the cover sheet was revised by MCC.

R1-050412 25.221CR125(Rel4, F)CR126(Rel5, A)CR127(Rel6, A) "Correction to the examples of the association of UL SS commands to UL uplink time slots"
(ZTE/CCSA)

09/05/2005 10:20 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment): It was commented that this CR was not for Rel4, but for Rel-6. It was not clear what the difference the original table and updated table and also should be in line with the CR drafting rule.

Decision: Rel-6 CR was updated on R1-050516.

R1-050516 25.221CR127r1(Rel6, F) "Correction to the examples of the association of UL SS commands to UL uplink time slots"
(ZTE/CCSA)

13/05/2005 09:10 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment):

Decision: This CR was agreed. After the meeting, the revision number and WI on the cover sheet was revised by MCC.

R1-050413 25.221CR128(Rel4, F)CR129(Rel5, A)CR130(Rel6, A) "Correction to transmission of TPC for 1.28 Mcps TDD" (ZTE/CCSA)

09/05/2005 10:35 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment):

Decision: It was decided to update CRs in Tdoc R1-050517 as same as R1-050410 and R1-050411.

R1-050517 25.221CR128r1(Rel4, F)CR129r1(Rel5, A)CR130r1(Rel6, A) "Correction to transmission of TPC for 1.28 Mcps TDD" (ZTE/CCSA)

13/05/2005 09:10 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment):

Decision: This CR was agreed. After the meeting, the revision number on the cover sheet was revised by MCC.

R1-050414 25.221CR131(Rel4, F)CR132(Rel5, A)CR133(Rel6, A) "Correction to the examples of the association of UL TPC commands to UL uplink time slot and CCTrCH pairs" (ZTE)

Discussion (Question / Comment):

Decision: Rel-6 CR was updated on R1-050518 as same as R1-050412.

R1-050518 25.221CR133r1(Rel6, F) "Correction to the examples of the association of UL TPC commands to UL uplink time slot and CCTrCH pairs" (ZTE)

13/05/2005 09:xx Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment):

Decision: This CR was agreed. After the meeting, the revision number and WI on the cover sheet was revised by MCC.

Withdrawn

R1-050385 25.221CR119(Rel-4, F)CR120(Rel-5, A)CR121(Rel-6, A) "Corrections of TPC and SS command Transmission for 1.28Mcps TDD" (Siemens AG)

6.3 Rel5 CRs + shadow CRs

R1-050389 Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.213&25.214 on Feature Clean Up: Removal of DSCH (FDD mode) (LG Electronics)

09/05/2005 11:17 Presented by Dr. Joon-Kui Ahn.

Discussion (Question / Comment):

Decision: This Set of CRs was agreed. After the agreement, there was comment from NEC, and the CR on TS25.214 was revised in Tdoc R1-050548 with reflected to the received comment.

R1-050548 Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.213&25.214 on Feature Clean Up: Removal of DSCH (FDD mode) (LG Electronics) (Revision of R1-050389)

13/05/2005 09:10 Presented by Mr. Dragan Vujcic.

Discussion (Question / Comment):

Decision: This Set of CRs was agreed. the final version.

R1-050416 25.212CR211(Rel-5,C)CR212(Rel-6,C) Feature Clean Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512 (Nokia)

09/05/2005 11:30 Presented by Mr. Markku Tarkiainen

Discussion (Question / Comment):

Decision: This set of CRs was revised in Tdoc R1-050522.

R1-050522 25.212CR211r1(Rel-5,C)CR212r1(Rel-6,C) Feature Clean Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512 (Nokia) (Revision of R1-050416)

13/05/2005 09:15 Presented by Mr. Markku Tarkiainen

Discussion (Question / Comment):

Decision: This set of CRs was agreed.

R1-050417 25.215CR162(Rel-5,C)CR163(Rel-6,C) Feature Clean Up: Removal of observed time difference to GSM cell measurement" (Nokia)

09/05/2005 11:30 Presented by Mr. Markku Tarkiainen

Discussion (Question / Comment):

Decision: This set of CRs was agreed.

R1-050446 Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.214 on Feature Clean Up: Removal of "SSDT" (Ericsson)

09/05/2005 11:35 Presented by Dr. Stefan Parkvall.

Discussion (Question / Comment):

Decision: This set of CRs was agreed.

R1-050478 Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.214 on Feature Clean Up: Removal of TX diversity closed loop mode 2 (Siemens)

09/05/2005 11:35 Presented by Dr. Joern Krause.

Discussion (Question / Comment):

Decision: The CRs on TS25.211 were agreed. The CRs on TS25.214 was revised in Tdoc R1-050523 for improving wording.

R1-050523 Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.214 on Feature Clean Up: Removal of TX diversity closed loop mode 2 (Siemens) (Revision of R1-050478)

13/05/2005 11:45 Presented by Dr. Joern Krause.

Discussion (Question / Comment):

Decision: The CR to 214 was agreed. This document was the agreed version of set CRs.

R1-050479 Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.212& 25.214&25.215 on Feature Clean Up: Removal of Compressed mode by puncturing (Siemens)

09/05/2005 11:45 Presented by Dr. Joern Krause.

Discussion (Question / Comment):

Decision: Set of CRs on TS25.211, 25.214 and 25.215 was agreed. CRs on TS25.212 was revised in Tdoc R1-050525.

R1-050525 Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.212& 25.214&25.215 on Feature Clean Up: Removal of Compressed mode by puncturing (Siemens) (Revision of R1-050479)

13/05/2005 11:45 Presented by Dr. Joern Krause.

Discussion (Question / Comment):

Decision: The CR to 212 was agreed. This document was the agreed version of set CRs.

R1-050491 Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211& 25.214 on Feature Clean Up: Removal of dedicated pilot as sole phase reference (Motorola)

09/05/2005 12:00 Presented by Mr. Mark Harrison.

Discussion (Question / Comment):

Decision: The CRs on TS25.211 were agreed. The CRs on TS25.214 were revised on Tdoc R1-050526.

R1-050526 **Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211& 25.214 on Feature Clean Up:
Removal of dedicated pilot as sole phase reference**
(Motorola) (Revision of R1-050491)

13/05/2005 09:10 Presented by Mr. Mark Harrison.

Discussion (Question / Comment):

Decision: The Set of CRs was agreed.

R1-050504 **Set of CRs (Rel-5,C) and (Rel-6, C) to 25.201&25.211&25.212&25.213
&25.214&25.215 on Feature Clean Up: Removal of CPCH**
(Motorola)

09/05/2005 12:05 Presented by Mrs. Carolyn Taylor.

Discussion (Question / Comment):

Decision: Set of CRs on TS 25.201, 25.213 and 25.215 was agreed. CRs on TS25.211, 25.212 and 25.214 were revised in Tdoc R1-050559. After the approval, there was a comment on the CRs on 25.213, so 25.213 CR also was revised.

R1-050559 **Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.214 on Feature Clean
Up: Removal of CPCH**
(Motorola) (Revision of R1-505504)

13/05/2005 09:15 Presented by Mrs. Carolyn Taylor.

Discussion (Question / Comment):

Decision: The CR to 25.213, Rel6 was revised in R1-050568.

R1-050568 **Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.213&25.214 on
Feature Clean Up: Removal of CPCH**
(Motorola) (Revision of R1-050559)

13/05/2005 11:55 Presented by Mrs. Carolyn Taylor.

Discussion (Question / Comment): The CR to 213 was agreed. This document was the agreed version of set CR.

Impact on test specifications (if any) might be other than “no” for some CRs. => It should be check by secretary.

Withdrawn

R1-050388 **Set of CRs (Rel-5,C) and (Rel-6, C) to 25.201&25.211&25.212&25.213
&25.214&25.215 on Feature Clean Up: Removal of CPCH**
(Motorola)

R1-050527 **Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.214 on Feature Clean
Up: Removal of CPCH**
(Motorola)

6.4 Rel6 CRs (if not covered by other agenda items)

R1-050415 **25.201CR022(Rel6, F) "Addition of abbreviation list"**
(ZTE)

09/05/2005 12:20 Presented by Mr. Yincheng Zhang.

Discussion (Question / Comment):

Decision: [Redacted]

R1-050418 **25.211CR208(Rel-6,F)"Summary of F-DPCH operation during SHO"**
(Nokia)

09/05/2005 12:25 Presented by Mr. Markku Tarkiainen

Discussion (Question / Comment): There was a concern on the impact for UE.

Decision: This CR was noted that the proposed text is a good example of NW operation, but it does not need to be specified.

R1-050419 **25.214CR378(Rel-6,F)"F-DPCH Downlink Power Control Behaviour in SHO"**
(Nokia)

09/05/2005 14:25 Presented by Mr. Asbjorn Grovlen

Discussion (Question / Comment): There was a long discussion regarding TPC command, Target for Radio link and son on. It was commented that the affecting to the other function for Uplink should be shown.

Decision: It was decided to continue the offline discussion during this week and comeback on Friday.

On Friday, we came back to this document. Still there were different views on whether only the RL from the HS serving cell or all RLs shall be considered. It was decided to continue discussion via email reflector until RAN plenary with target to reach agreement. On the e-mail discussion, it was suggested to change in the wording. This CR was revised in R1-050575.

R1-050575 25.214CR378r1(Rel-6,F)"F-DPCH Downlink Power Control Behaviour in SHO" (Nokia)

Decision: This CR was agreed on the RAN1 reflector at 27th of May.

R1-050420 25.211CR209(Rel-6,F)"MICH Phase references" (Nokia)

09/05/2005 14:50 Presented by Mr. Markku Tarkiainen

Decision: It was commented that this CR was covered by Qualcomm Tdoc R1-050426, so not treated.

R1-050421 25.214CR379(Rel-6,F)"Correction to downlink synchronization" (Qualcomm Europe)

09/05/2005 14:55 Presented by Mr. Serge Willenegger.

Discussion (Question / Comment):

Decision: ~~This CR was agreed.~~ It was clarified that UE is not required to support both DPCH and F-DPCH reception simultaneously.

R1-050444 25.214CR354r4(Rel6, C)"Timing Maintained Hard Handover" (Ericsson)

09/05/2005 15:05 Presented by Mrs. Ning He

Discussion (Question / Comment):

Decision: ~~This CR was agreed.~~

R1-050445 25.214CR355r3(Rel6, B)"Fast L1 DCH synchronization" (Ericsson, Nokia)

09/05/2005 15:10 Presented by Mrs. Ning He

Discussion (Question / Comment): It was commented that 5.1.2.2.1.1 is not clear the relation to other section.

Decision: This CR was revised CR in Tdoc R1-050529 ("r", include pointer to 5.1.2.2.1.1, cancel "indicate").

R1-050529 25.214CR355r4(Rel6, B)"Fast L1 DCH synchronization" (Ericsson, Nokia) (Revision of R1-050445)

13/05/2005 09:35 Presented by Mrs. Ning He

Discussion (Question / Comment):

Decision: ~~This CR was agreed.~~

R1-050465 25.213CR080(Rel-6,F)"Correction to uplink short scrambling code polynomial" (Qualcomm Europe)

09/05/2005 15:25 Presented by Mr. Serge Willenegger.

Discussion (Question / Comment):

Decision: ~~This CR was agreed.~~

R1-050470 25.212CR217(Rel-6,F)&25.214CR385(Rel-6,F)"MBMS related corrections" (NEC)

09/05/2005 15:30 Presented by Mr. Thanh Bui.

Discussion (Question / Comment): There were questions on L2 signalling combining, how long the reception of MCCCH continue (TTI length). It was commented that the number of test case should be minimized.

Decision: CR on TS25.212 was revised (concerns on change on fixed pos) in R1-050530. CR on TS25.214 on is conflicting with R1-050492.

R1-050530 25.212CR217r1(Rel-6,F)"MBMS related corrections" (NEC) (Revision of R1-050470)

13/05/2005 09:40 Presented by Mr. Thanh Bui.

Discussion (Question / Comment):

Decision : ~~This CR was agreed.~~

R1-050492 25.214CR392(Rel-6,F)"Removal of MBMS Rake Combining" (Motorola)

09/05/2005 15:55 Presented by Mr. Mark Harrison.

Discussion (Question / Comment): It was commented that Motorola CR is more straightforward as compared with NEC CR.

Decision: This CR was revised in R1-050531. RAN 1 convenor suggested Proponents to discuss further and strive for joint CR (CR 25.214 of R1-050470 and R1-050492)

R1-050531 25.214CR392r1(Rel-6,F)"Removal of MBMS Rake Combining" (Motorola, NEC) (Revision of R1-050492)

13/05/2005 09:40 Presented by Mr. Mark Harrison from Motorola.

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050471 Clarification of UE procedure when reporting PRE (NEC)

09/05/2005 16:40 Presented by Mr. Thanh Bui.

Discussion (Question / Comment):

Decision: This document was noted

R1-050521 25.214CR393(Rel-5, F)CR394(Rel-6,F) "HS-DPCCH transmission on discarding HS-SCCH" (Philips, NEC)

09/05/2005 16:45 Presented by Mr. Matthew Baker.

Discussion (Question / Comment): There was a concern on UE behaviour when CRC fails on HS-SCCH.

Decision: This CR was revised in Tdoc R1-050532 to cover also the UE behaviour when CRC fails on HS-SCCH

R1-050532 25.214CR393r1(Rel-5, F)CR394r1(Rel-6,F) "HS-DPCCH transmission on discarding HS-SCCH" (Philips, NEC) (Revision of R1-050521)

13/05/2005 09:45 Presented by Mr. Matthew Baker from Philips.

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050472 S-CCPCH Power Offset Signalling for MBMS (Panasonic)

In this contribution, Panasonic discusses how UE select the cells for selection and soft combining. From UE complexity perspective, Panasonic proposes not to adopt the method based on S-CCPCH measurement. Their recommendation is UE can choose cells based only P-CPICH measurement. If it is too restrictive on combining cell selection from network operation, to signal power offset from P-CPICH is one possibility but the issues listed in this contribution should be addressed carefully. In case it is decided to introduce an S-CCPCH offset, 4 bits should be considered as an upper limit for this signalling.

09/05/2005 17:05 Presented by Mr. Hidetoshi Suzuki.

Discussion (Question / Comment):

Decision: This document was noted.

R1-050441 Signalling S-CCPCH/CPICH power ratio for MBMS (Siemens)

09/05/2005 17:10 Presented by Dr. Thomas Chapman

Discussion (Question / Comment): There was a long discussion on this topic. It was commented that the MCCCH load is very expensive so, it should be reduced by informing only power offset that different from the interference cell or when multiple power offsets are used on the S-CCPCH. Other comment was that UE is informed about MBMS vs CPICH power offset per services.

Decision: This document was noted.

RAN 1 convenor suggested continuing the offline discussion and revisiting after discussion. After the discussion, the draft reply LS was prepared in R1-050539 in section 5.

R1-050493 Draft CR 25.211(Rel-6,F)"Phase reference for MBMS soft combining while receiving DPCH" (Motorola)

09/05/2005 18:05 Presented by Mr. Mark Harrison.

Discussion (Question / Comment): It was asked if the selective combining is considered. It was commented that 25.306 should be taken into account.

Decision: This draft CR was revised in Tdoc R1-050534.

R1-050534 Draft CR 25.211(Rel-6,F)"Phase reference for MBMS soft combining while receiving DPCH" (Motorola)

Decision: This document was withdrawn because it was captured in Tdoc R1-050545.

Not Available

R1-050422 25.211CR215(Rel-6,F)"Support of CLTD mode 1 with F-DPCH" (Qualcomm Europe)

6.5 other

R1-050423 Antenna receive diversity for MBMS Rel-6 UE (Qualcomm Europe)

09/05/2005 18:20 Presented by Mr. Serge Willenegger.

Discussion (Question / Comment): It was commented that RX diversity in addition to soft and selective combining seems to be new WI. Mr. RAN1 convenor commented that we should discuss more about this topic, with other WGs.

Decision: This document was noted.

R1-050395 Correction of default parameters of UL:384kbps PS RAB (NTT DoCoMo)

This paper shows the necessity of expanding the range of RMA_{PS} . From the simulation results, PS RAB can not achieve the DCH quality good enough for the radio bearer combination with AMR and 384 kbps UL by applying the RMA currently specified in TS 34.108. NTT DoCoMo proposes to approve the appropriate upper range of $RMA_{PS} = 180$, and liaise it to RAN WG5 with the draft change request. The puncturing limit also needs to be updated accordingly. Note that the UL: 384kbps PS RAB parameters specified in TR 25.993 are referring to the corresponding RAB parameters in TS 34.108, and therefore there is no impact on the RAN2 specification.

09/05/2005 18:30 Presented by Mr. Shinsuke Ogawa

Discussion (Question / Comment):

Decision: This document was principle agreed. RAN1 convenor suggested to confirm the puncturing limits offline. There was comment from Ericsson regarding calculation

R1-050469 DRAFT LS on correction of default parameters of UL:384kbps PS RAB (NTT DoCoMo)

This document is related to R1-050395.

09/05/2005 18:45 Presented by Mr. Shinsuke Ogawa

Discussion (Question / Comment):

Decision: This draft LS was approved in Tdoc R1-050534

R1-050551 LS on correction of default parameters of UL:384kbps PS RAB (WG RAN1)

R1-050467 Solutions to DCCH performance degradation in HSDPA A-DPCH (NTT DoCoMo)

09/05/2005 18:45 Presented by Mr. Anil Umesh

Discussion (Question / Comment): There was a long discussion, but it could not arrive at the agreement. It was commented that from Nokia view the first solution is the best, but we are objective to the last part of the document "In any solution, the UE behaviour should be fixed so that the network can optimise the A-DPCH power and DCCH quality" Other comment was that combining the first and third solutions is effective and also that UE behaviour must be consistent.

Decision: This document was noted.

RAN1 Convenor's notes

- *UE behaviour must be consistent*

- *SRNC based solution needs no standard change, but is not compatible with UE based solution*
- *Need to clarify UE behaviour (in 25.331?) in either case:*
 - *“Straightforward “ UE behaviour in case of RNC based solution*
 - or*
 - *Detailed specification of UE behaviour for UE based solution*
- ...

After the offline discussion, the draft LS was prepared in R1-050562.

R1-050562 [DRAFT] Reply LS on Outer-loop TPC behaviour in 0 bit TB reception for A-DPCH (NTT DoCoMo)

12/05/2005 1805 Presented by Mr. Anil Umesh

Discussion (Question / Comment):

Decision: This draft LS was approved in R1-050563 with revision of bullet 3 and so on, and addition of “additional” before DPCH

R1-050563 Reply LS on Outer-loop TPC behaviour in 0 bit TB reception for A-DPCH (WG RAN1)

7. FDD Enhanced Uplink

The overview of discussion and conclusions on this topic is as followed.

1. Gain factors, Outer loop control

Gain factor

Agreement on the table in R1-050424 + 12/15 in table of R1-050489, gain factors relate to $\beta_{ed,k}$, i.e. quantized total power offset (including HARQ offset) on E-DPDCH (k).

Outer loop power control in case no DCHs are mapped to DPDCH

RAN1 has not identified the need for additional measures for outer loop power control (e.g. 0bit TrBk + CRC + L1 padding or periodic scheduling info at agreed timings, or ...). RAN1 will investigate further and inform RAN2 (until RAN1#42) if the need for additional measures is identified.

2. EDCH RRM measurements

- RTWP measurement reported to RNC
- RTWP target sent to NodeB
- Separate discussion whether or not to send a RTWP_ref (i.e. noise floor) to the NodeB that the NodeB may use or not
- RAN4 to look on RTWP measurement range etc.

The LS in R1-050557 was sent to inform the RAN1 decision to other WGs.

3. Agreed CR

Spec	CR	R	Tdoc No.	Title
25.213	074	2	R1-050537	Power Offset values for E-PDDCH/E-DPCCH
25.212	204	2	R1-050540	E-DCH Corrections
25.212	219	-	R1-050505	Re-ordering of the E-DPCCH bit mapping
25.212	205	1	R1-050541	Compressed Mode Operation for Enhanced Uplink
25.214	382	2	R1-050542	Compressed mode operation for Enhanced Uplink
25.214	381	1	R1-050536	DPCCH gain factor with no DPDCH configured
25.212	220	-	R1-050543	Coding for E-AGCH
25.211	210	1	R1-050544	Clarification on EACGH transmission interval
25.211	212	1	R1-050546	Clarification on E-DCH timing
25.212	215	-	R1-050429	Clarification on E-AGCH bit mapping
25.213	075	3	R1-050549	Support of different HARQ profiles
25.214	372	3	R1-050550	Support of different HARQ profiles
25.212	216	-	R1-050434	Determination of SF and number of PhCHs considering SF2
25.214	363	4	R1-050565	Power control at the maximum power limit
25.211	211	2	R1-050570	Clarification on phase reference for downlink channels
25.214	380	3	R1-050576	Clarification on E-DCH timing

7.1 Remaining open issues: Gain factors, UE behaviour at TX power limit, ...

R1-050424 Proposal for E-DPDCH gain factors (Qualcomm Europe)
 10/05/2005 09:10 Presented by Mr. Serge Willenegger.

This document relates to the CR in Tdoc R1-050508.

Discussion (Question / Comment):

Decision: This document was noted.

R1-050489 On gain factor quantization (Lucent Technologies)

In this contribution, Lucent investigates the actual performance impact of the gain factor quantization for DCH and E-DCH. Based on this performance evaluation, a recommendation on the gain factor quantization is given.

10/05/2005 09:25 Presented by Dr. Rainer Bachl.

Discussion (Question / Comment): There was long time discussion on the part of 12, 15 and over 21 dB in the table 5 and also HARQ offset inclusion. Samsung commented that we already submitted the contribution included the HARQ support in R1-050355 and R1-050358 at the last meeting.

Decision: This document was noted.

Regarding these two documents about the gain factor, the long discussion continued, and the following conclusion was obtained.

Conclusion : Agreement on the table in 424 + 12/15, gain factors relate to $\beta_{ed,k}$, i.e. quantized total power offset (including HARQ offset) on E-DPDCH (k).

R1-050508 25.213CR074r1(Rel-6,F)"Power Offset values for E-PDDCH/E-DPCCH"
(Samsung, Qualcomm Europe) (revision of R1-050305)

10/05/2005 10:00 Presented by Dr. Juho Lee from Samsung.

Discussion (Question / Comment):

Decision: This CR was revised in R1-050537.

R1-050537 25.213CR074r2(Rel-6,F)"Power Offset values for E-PDDCH/E-DPCCH"
(Samsung, Qualcomm Europe, Lucent) (revision of R1-050305)

13/05/2005 09:45 Presented by Dr. Juho Lee from Samsung

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050468 Outer loop power control in case no DCHs are mapped to DPDCH
(NTT DoCoMo)

In the last RAN WG2 meeting in Beijing, periodic transmission for outer loop power control for the case that DPDCH is not configured was addressed. The decision of the discussion was that this issue shall be treated by WG1. In this contribution, NTT DoCoMo addresses the details of periodic transmission and proposes to include the scheme to the current Enhanced Uplink specification.

10/05/2005 10:00 Presented by Mr. Anil Umesh

Discussion (Question / Comment): The discussion continued for long time, but it was concerned on the validity about the DoCoMo proposal, it should be shown by the simulation.

Decision: This document was noted, and it was decided to indicate to RAN2 that currently RAN1 has not identified the need for additional measures for outer loop power control (e.g. 0bit TrBk + CRC + L1 padding or periodic scheduling info at agreed timings, or ...). RAN1 will investigate further and inform RAN2 (until RAN1#42) if the need for additional measures is identified. The draft LS was prepared in R1-050538 from NTT DoCoMo.

R1-050538 [DRAFT] LS on periodic transmission for EUL outer loop power control
(NTT DoCoMo)

13/05/2005 09:45 Presented by Mr. Anil Umesh

Discussion (Question / Comment):

Decision: Approved in R1-050569 with revision of last sentence (add the sentence) and copy of RAN4.

R1-050569 LS on periodic transmission for EUL outer loop power control(NTT DoCoMo)

7.2 Enhanced Uplink Rel6 CRs

R1-050398 25.212CR204r1(Rel6, F)"E-DCH Corrections" (Siemens)

10/05/2005 11:30 Presented by Dr. Thomas Hindelang

Discussion (Question / Comment): Some companies raised on the code gain.

Decision: This CR was revised in R1-050540.

R1-050540 25.212CR204r2(Rel6, F)"E-DCH Corrections"
(Siemens, Samsung, Qualcomm Europe) (Revision of R1-050398)
13/05/2005 09:55 Presented by Dr. Thomas Hindelang

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050399 Correction of Rate Matching Parameters for E-DCH (Siemens)

R1-050509 Correction of Rate Matching Parameters for E-DCH
(Siemens) (Revision of R1-050399)

During the last meeting in Beijing, Siemens presented a CR with a couple of E-DCH corrections. Most of the corrections are straight forward and seem to be common understanding anyway. However regarding the correction of the HARQ rate matching stage we received a couple of questions. Therefore this document explains the rationale behind the formulas and why a correction is needed.

10/05/2005 11:15 Presented by Dr. Thomas Hindelang

Discussion (Question / Comment): The concern was raised from some companies on coding rate gain: There is no system gain.

Decision: This document was noted. There was no agreement on this modification.

R1-050428 25.212CR214(Rel-6,F)"Clarification on E-DPCCH bit mapping"
(Qualcomm Europe)

R1-050466 25.212CR214r1(Rel-6,F)"Clarification on E-DPCCH bit mapping"
(Qualcomm Europe, Samsung) (Revision of R1-050428)

10/05/2005 12:00 Presented by Mr. Serge Willenegger from Qualcomm Europe.

Discussion (Question / Comment):

Decision: This CR was agreed to be merged into R1-050540.

R1-050505 25.212CR219(Rel-6,F)"Re-ordering of the E-DPCCH bit mapping"
(Lucent Technologies)

10/05/2005 12:05 Presented by Dr. Rainer Bachl.

Discussion (Question / Comment): The concern was raised from Qualcomm.

Decision: This CR was agreed.

R1-050400 25.212CR205(Rel6, F)"Compressed Mode Operation for Enhanced Uplink"
(Siemens, Ericsson, Nokia, Nortel, Philips, Qualcomm Europe)

10/05/2005 12:15 Presented by Dr. Thomas Chapman from Siemens.

Discussion (Question / Comment): The concern was raised on the CM mode gaps.

Decision: This CR was revised (remove one "and" on the cover sheet) in Tdoc R1-050541.

R1-050541 25.212CR205r1(Rel6, F)"Compressed Mode Operation for Enhanced Uplink"
(Siemens, Ericsson, Nokia, Nortel, Philips, Qualcomm Europe)
(Revision of R1-050400)

13/05/2005 09:55 Presented by Dr. Thomas Chapman from Siemens.

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050483 Details of bit mapping for E-DCH retransmissions in compressed frames
(Philips)

10/05/2005 12:30 Presented by Mr. Matthew Baker.

Discussion (Question / Comment): The concern was raised on the additional retransmission because of the un effectiveness to the decoding.

Decision: This document was noted. There was no agreement on this document.

R1-050440 25.214CR382(Rel-6, F) "Compressed mode operation for Enhanced Uplink"
(Siemens, Philips)

R1-050528 25.214CR382r1(Rel-6, F) "Compressed mode operation for Enhanced Uplink"
(Siemens, Philips) (Revision of R1-050440)

10/05/2005 14:10 Presented by Dr. Thomas Chapman

Discussion (Question / Comment): There was comment on the editorial error. Mr. RAN1 convenor suggests checking the CR from Samsung in R1-050536.

Decision: This CR was agreed in principle, and was revised (editorial+align with R1-050536) in R1-050542.

R1-050542 25.214CR382r2(Rel-6, F) "Compressed mode operation for Enhanced Uplink"
(Siemens, Philips) (Revision of R1-050528)

13/05/2005 09:55 Presented by Dr. Thomas Chapman

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050437 25.214CR381(Rel-6,F) on DPCCH gain factor with no DPDCH configured
(Samsung, Ericsson)

R1-050536 25.214CR381r1(Rel-6,F) on DPCCH gain factor with no DPDCH configured
(Samsung, Ericsson, Siemens) (Revision of R1-050437)

10/05/2005 14:20 Presented by Mr. Yongjun Kwak.

Discussion (Question / Comment):

Decision: This CR was agreed.

R1-050436 Set of draft CRs on Coding for E-AGCH **(Samsung, Siemens)**

10/05/2005 14:25 Presented by Mr. Youngbum Kim

Discussion (Question / Comment):

Content is same as one at last meeting.

Depending on RAN2 decision, programmatic, Submit

Decision: All CRs were agreed. One of them will be presented for approval at next RAN plenary, depending on decision in RAN2. A CR number will be assigned (different revision number to each CR) and CRs to be formally agreed until Friday in R1-050543.

R1-050543 Set of CRs to 25.212 on Coding for E-AGCH
(Samsung, Siemens) (Revision of R1-050436)

13/05/2005 09:55 Presented by Mr. Youngbum Kim

Discussion (Question / Comment):

Decision: This CR was agreed. After the meeting, the revision (-), E-AGCH 6bit was taken for the final agreement according to RAN2 decision.

Revision 0 was taken for the approval on the RAN#28 meeting.

Revision -: E-AGCH 6bit

Revision 1: E-AGCH 7bit

Revision 2: E-AGCH 8bit

Revision 3: E-AGCH 9bit

Revision 4: E-AGCH 10bit

R1-050425 25.211CR210(Rel-6,F)"Clarification on EACGH transmission interval"
(Qualcomm Europe)

10/05/2005 14:30 Presented by Mr. Juan Montojo

Discussion (Question / Comment):

Decision: This CR was agreed in principle, and revised in Tdoc R1-050544 (Revision of editorial error)

R1-050544 25.211CR210r1(Rel-6,F)"Clarification on EACGH transmission interval"
(Qualcomm Europe) (Revision of R1-050425)

13/05/2005 10:00 Presented by Mr. Serge Willenegger.

Discussion (Question / Comment):

Decision: This CR was agreed.

- R1-050426 25.211CR211(Rel-6,F)"Clarification on phase reference for downlink channels" (Qualcomm Europe)**
10/05/2005 14:50 Presented by Mr. Serge Willenegger.
Discussion (Question / Comment): The comment was on editorial error.
Decision: This CR was revised in R1-050545 including the proposal from R1-050493.
- R1-050545 25.211CR211r1(Rel-6,F)"Clarification on phase reference for downlink channels" (Qualcomm Europe) (Revision of R1-050426)**
13/05/2005 10:00 Presented by Mr. Serge Willenegger.
Discussion (Question / Comment):
Decision: E-mail agreed. Until Friday 20th 6pm CET. Change the shall not of may not. Revision in R1-050570.
- R1-050570 25.211CR211r2(Rel-6,F)"Clarification on phase reference for downlink channels" (Qualcomm Europe)**
Decision: R1-050545 was revised with reflected to the discussion on the RAN1 reflector. ~~This CR was agreed on the RAN1 reflector at 23rd of May~~
- R1-050427 25.211CR212(Rel-6,F)"Clarification on E-DCH timing"(Qualcomm Europe)**
10/05/2005 15:05 Presented by Mr. Juan Montojo.
Discussion (Question / Comment): The comment was that the section number (section 7.11,,,) should not be changed.
Decision: This CR was revised in R1-050546 (Revision of section numbering & reject change in the figure 29).
- R1-050546 25.211CR212r1(Rel-6,F)"Clarification on E-DCH timing" (Qualcomm Europe) (Revision of R1-050427)**
13/05/2005 10:10 Presented by Mr. Serge Willenegger.
Discussion (Question / Comment):
Decision: ~~This CR was agreed~~
- R1-050429 25.212CR215(Rel-6,F)"Clarification on E-AGCH bit mapping" (Qualcomm Europe)**
10/05/2005 15:15 Presented by Mr. Juan Montojo
Discussion (Question / Comment):
Decision: ~~This CR was agreed~~
- R1-050430 25.214CR380(Rel-6,F)"Clarification on E-DCH timing" (Qualcomm Europe)**
10/05/2005 15:20 Presented by Mr. Serge Willenegger.
Discussion (Question / Comment): There was discussion on the UE processing timing, Soft handover case, and synchronization for cell.
Decision: This CR was revised in R1-050547, based on that the UE processing time is the same as for E-HICH etc.
- R1-050547 25.214CR380r1(Rel-6,F)"Clarification on E-DCH timing" (Qualcomm Europe) (Revision of R1-050430)**
13/05/2005 10:10 Presented by Mr. Serge Willenegger.
Discussion (Question / Comment):
Decision: This document will be agreed via e-mail reflector until 20th May 6:00 CET. Some correction needed. Discussion on update and on relaxing UE timing for non-serving cell E-RGCH in R1-050572
- R1-050572 25.214CR380r2(Rel-6,F)"Clarification on E-DCH timing" (Qualcomm Europe)**
Decision: This CR was revised in R1-050572 with reflected to the discussion regarding "Keep the extension of UE processing time as 4msec" and "Define the UE response to be the first E-DCH TTI after the minimum time" on the reflector.
- R1-050576 25.214CR380r3(Rel-6,F)"Clarification on E-DCH timing" (Qualcomm Europe)**
Decision: ~~This CR was agreed on the RAN1 reflector at 27th of May~~

**R1-050431 25.213CR075r2(Rel-6,F) on support of different HARQ profiles
(Samsung, LG Electronic, Philips) (Revision of R1-050355)**

10/05/2005 16:55 Presented by Dr. Juho Lee from Samsung

This CR is revised from the CR already agreed at the Beijing meeting.

Discussion (Question / Comment): There were concerns on sqrt(2) multiplication and Table 1.B.1

Decision: It was decided to move sqrt(2) multiplication for SF2 to 25.214 CR, and also split the table for E-DPDCH, add a pointer to 25.214 CR. This CR was revised in R1-050549.

**R1-050549 25.213CR075r3(Rel-6,F) on support of different HARQ profiles
(Samsung, LG Electronic, Philips, Panasonic) (Revision of R1-050431)**

13/05/2005 11:15 Presented by Dr. Juho Lee from Samsung

Discussion (Question / Comment):

Decision: This CR was agreed.

**R1-050432 25.214CR372r3(Rel-6,F) on support of different HARQ profiles
(Samsung, LG Electronic, Philips) (Revision of R1-050358)**

This CR is revised from the CR already agreed at the Beijing meeting.

10/05/2005 15:10 Presented by Dr. Juho Lee from Samsung

Discussion (Question / Comment): The discussion was on the relation between 213 CR (R1-050431) and 214 CR.

Decision: This CR was revised in R1-050550.

**R1-050550 25.214CR372r3(Rel-6,F) on support of different HARQ profiles
(Samsung, LG Electronic, Philips, Panasonic) (Revision of R1-050432)**

13/05/2005 11:20 Presented by Dr. Juho Lee from Samsung

Discussion (Question / Comment):

Decision: This CR was agreed.

**R1-050433 25.214CR363r2(Rel-6,F) on power control at the maximum power limit
(Samsung, NEC, Nokia, Panasonic, Philips, Qualcomm Europe)
(Revision of R1-050310)**

**R1-050519 25.214CR363r3(Rel-6,F) on power control at the maximum power limit
(Samsung, NEC, Nokia, Panasonic, Philips, Qualcomm Europe)
(Revision of R1-050433)**

10/05/2005 17:20 Presented by Dr. Juho Lee from Samsung

Discussion (Question / Comment): A long discussion continued on the power control at the maximum limit with related to when DPDCH is configured, E-TFC, and so on. In addition to the proposed solution in R1-050519, other two solutions were discussed.

Solution 1 (proposed in 519):

- Reduce E-DPDCH first (down to DTX), then scale equally on all channels
- HARQ compensates on EDCH

Solution 1 (modified):

- Reduce E-DPDCH first (down to a minimum value [and/or zero?]), then scale equally on all channels
- HARQ compensates on EDCH

Solution 2:

- Equal scaling on all channels without DPDCH
 - o Always or
 - o Only when E-TFC is in minimum set
- Reduce E-DPDCH first (down to DTX), then scale equally on all channels and use HARQ to compensate when DPDCH is configured

Decision: This document was noted. RAN1 convener suggested the delegates to continue the offline discussion. After the discussion the CR was revised in R1-050565.

RAN1 convener's note

Solution 1 (proposed in 519):

- Reduce E-DPDCH first (down to DTX), then scale equally on all channels
- HARQ compensates on EDCH

Solution 1 (modified):

- Reduce E-DPDCH first (down to a minimum value [and/or zero?]), then scale equally on all channels
- HARQ compensates on EDCH

Solution 2:

- Equal scaling on all channels without DPDCH
 - o Always or
 - o Only when E-TFC is in minimum set
- Reduce E-DPDCH first (down to DTX), then scale equally on all channels and use HARQ to compensate when DPDCH is configured

R1-050565 25.214CR363r4(Rel-6,F) on power control at the maximum power limit
(Samsung, NEC, Nokia, Panasonic, Philips, Qualcomm Europe,
Siemens, Ericsson) (Revision of R1-050519)

13/05/2005 11:25 Presented by Dr. Juho Lee from Samsung.

Discussion (Question / Comment):

Decision: It is agreed that the variable beta_coffee will eventually be replaced by a fixed value or ratio, latest by RAN1#42. CR agreed conditional that no concerns are raised on the principles by Friday 20th May 6pm CET. The variable beta was invented during the offline discussion in coffee break, so it was named as "beta_coffee".

There were no concerns for the CR on the reflector, so the ~~CR was agreed at 20th of May on the RAN1 reflector.~~

R1-050434 25.212CR216(Rel-6,F) on determination of SF and number of PhCHs
considering SF2 (Samsung)

10/05/2005 18:30 Presented by Mr. Youn hyoung Hoe

Discussion (Question / Comment): The concern was raised on the RAN4 related issues occurred by this CR and Node B capability if not changed.

Decision: ~~This CR was agreed.~~

Withdrawn

R1-050435 25.212CR217(Rel-6,F) on introduction of happy bit (Samsung)
R1-050490 25.212CR219(Rel-6,F)"Re-ordering of the E-DPCCH bit mapping"
(Lucent Technologies)

7.3 Measurements for RRM

R1-050394 Consideration for RRM measurements (ZTE)

RAN1 and other group already take much effort to get close of the idealistic measurement. However, conclusion of the problem is still to be solved. In this document, ZTE are trying to improve the RRM measurement based on current discussion, and also take other's method into account and propose our own solution.

10/05/2005 18:45 Presented by Mr. Zhisong Zuo.

Discussion (Question / Comment): The question was on the base line power. How do we set the base line power?

Decision: This document was noted.

R1-050409 Concerns on RoT measurements for E-DCH RRM (Orange)

This document raises some additional concerns linked to operators' issues regarding the use of the RoT based on relative RTWP measurement as can be used for E-DCH. Thus the discussed RoT definition is recalled at first and then some issues are listed. The aim of this document is to collect comments on these different concerns and possible solutions that could be considered while choosing and specifying the measurement appropriate for E-DCH.
10/05/2005 18:50 Presented by Ms. Nadege NOISETTE.

Discussion (Question / Comment):

Decision: This document was noted.

R1-050447 Way forward on RRM measurements and targets for E-DCH (Ericsson)

In this contribution, Ericsson discusses the following issues in the light of the discussions during the recent RAN WG meetings and proposes a way forward in order to be able to finalize the E-DCH RRM discussion.

On the first point, two alternatives were discussed, namely reporting the interference situation in for of a RTWP measurement or a relative measurement representing the noise rise, e.g. RoT or RoTO.

On the second point, it has been discussed in RAN1 and RAN2 that it would be desirable to limit the NodeB scheduler by signaling a target to the NodeB that is expressed in the way as the NodeB reported measurement, e.g. in form of RTWP, RoT or similar.

10/05/2005 19:10 Presented by Dr. Stefan Parkvall.

Discussion (Question / Comment): From Panasonic, we submitted a similar proposal in Phoenix meeting and support to Ericsson proposal.

Decision: This document was noted.

R1-050495 Way forward with RRM measurements (Nokia, NEC)

This document is a continuing the discussion that took place in RAN1#40bis taking also into account the RAN2 decisions as well as the findings of RAN4 in R1-050361 and introduces a solution that could be considered as a way forward.

10/05/2005 19:15 Presented by Mr. Karri Ranta-aho from Nokia

Discussion (Question / Comment): Based on the Ericsson proposal, the discussion was on the information send to Node B. One is ROT target and RTWP_ref = noise floor sent to Node B, and another is RTWP target sent to Node B

Decision: This document was noted.

After the presentation of above four contributions, the RAN1 agreement was as followed.

Conclusion (RAN Convenor Note):

- RTWP measurement reported to RNC
- RTWP target sent to NodeB
- Separate discussion whether or not to send a RTWP_ref (i.e. noise floor) to the NodeB that the NodeB may use or not
- RAN4 to look on RTWP measurement range etc.

It was decided to prepare the draft LS in R1-050552 to inform the RAN1 decision to other WGs.

R1-050552 Draft LS on E-DCH RRM measurements (Ericsson)

11/05/2005 08:40 Presented by Dr. Stefan Parkvall.

Discussion (Question / Comment): No

Decision: ~~This draft LS was approved in R1-050552~~

R1-050557 LS on E-DCH RRM measurements (WG RAN1)

R1-050473 Measurements for downlink resource control in HSUPA (LG Electronics)

To finalize the specification of HSUPA, appropriate methods of radio resource control and the corresponding measurements should be defined. Even though the current RAN1 discussion is concentrated on the uplink resource control and measurements, downlink resource control and the corresponding measurements should also be discussed further. In this paper, LGE provides two general options for the downlink resource control and measurements briefly

10/05/2005 19:50 Presented by Dr Joon-Kui Ahn.

Discussion (Question / Comment): It was commented that option 2 can be more accurate with the modification of calculation.

Decision: This document was noted. Preferred approach is option 1 and it was decided to express this as RAN1 view in the LS (R1-050552), mention that error analysis is to be done in RAN1.

Withdrawn

R1-050502 Comment on measurements for EUDCH (NEC)

8. IMS (RAB support enhancement work item)

No Contribution

9. Improved Support of IMS Realtime Services using
HSDPA/HSUPA

No contribution

10. 1.28 Mcps TDD Channelisation Code Optimisation

R1-050392 Coding Procedure for PLCCH (UTStarcom, IPWireless)

In this contribution, they propose the coding procedure for PLCCH which is used to carry multiple TPC/SS commands for various UEs. The link level performance results for the proposed scheme are also presented.

10/05/2005 20:10 Presented by Mr. Ka Leong Lo.

Discussion (Question / Comment): No

Decision: The principle of the proposal was agreed.

**R1-050393 Draft Set of CRs(Rel-7, B) to 25.221&25.222&25.224 on Introduction of the
Physical Layer Common Control Channel (PLCCH)**

(UTStarcom, IPWireless)

10/05/2005 20:10 Presented by Mr. Ka Leong Lo.

Discussion (Question / Comment):

UTStarcom hoped to endorse this draft CRs in order to kick off the discussion in RAN WGs. Mr. RAN1 convener commented that now we could not endorse it because Rel-7 was not available, so the LS should be submitted to other WGs if want to kick of the discussion.

Decision: This document was noted without presentation. It was decided to prepare the draft LS in R1-050553.

R1-050571 Draft LS on Introduction of PLCCH for 1.28Mcps TDD

(UTStarcom, IPWireless)

13/05/2005 11:45 Presented by Mr. Ka Leong Lo.

Discussion (Question / Comment):

Decision: ~~This draft LS was approved in R1-050573.~~

R1-050573 LS on Introduction of PLCCH for 1.28Mcps TDD (UTStarcom, IPWireless)

Withdrawn

R1-050553 Draft LS on Introduction of PLCCH for 1.28Mcps TDD

(UTStarcom, IPWireless)

11. 3.84 Mcps TDD Enhanced Uplink

R1-050457 Uplink Signalling Architecture for 3.84Mcps TDD Enhanced Uplink (IPWireless)

A flexible architecture for uplink signalling is presented, addressing the needs of enhanced uplink in the TDD context. Corresponding text proposals are presented in R1-050458 for the RAN1 TR and in R2-051272 for the RAN2 TR.

10/05/2005 20:15 Presented by Mr. Nicholas Anderson.

Discussion (Question / Comment): No

Decision: This document was noted.

R1-050458 Text Proposal for TR 25.826 (Uplink Signalling Aspects) (IPWireless)

10/05/2005 20:20 Presented by Mr. Nicholas Anderson.

Discussion (Question / Comment):

From RAN1 convenor, it was commented that the final decision might be depending on RAN3 decision.

Decision: ~~This TP was agreed to be include in TR~~ Note: Decision on L1 structure is in RAN2, i.e. RAN1 TR might be adjusted if RAN2 reaches a different conclusion.

R1-050460 Text Proposal for TR 25.826 (Physical Channel Structure for Data)(IPWireless)

10/05/2005 20:25 Presented by Mr. Nicholas Anderson.

Discussion (Question / Comment):

Decision: ~~This TP was agreed to be include in TR~~

R1-050461 Text Proposal for TR 25.826 (Support for Node-B Scheduling) (IPWireless)

10/05/2005 20:25 Presented by Mr. Nicholas Anderson.

Discussion (Question / Comment):

Decision: ~~This TP was agreed to be include in TR~~

12. 7.68 Mcps TDD Option

R1-050453 TR25.809 v0.1.1 (IPWireless)

10/05/2005 20:30 Presented by Dr. Martin Beale.

Discussion (Question / Comment):

Decision: This document was endorsed to v0.2.0 in Tdoc R1-050554

R1-050454 TS25.202 v0.0.1 (IPWireless)

10/05/2005 20:35 Presented by Dr. Martin Beale.

Discussion (Question / Comment):

Decision: This document was endorsed to v0.1.0 in Tdoc R1-050553

R1-050455 Services offered to higher layers by 7.68Mcps TDD option (IPWireless)

10/05/2005 20:35 Presented by Dr. Martin Beale.

Discussion (Question / Comment):

Decision: The document was agreed for inclusion into TS 25.202 and TR 25.809

R1-050456 Spreading factors and burst types for 7.68Mcps TDD option (IPWireless)

10/05/2005 20:40 Presented by Dr. Martin Beale.

Discussion (Question / Comment): It was concerned that there was contradictory text in 6.2.3.1.

Decision: The document was revised in Tdoc R1-050556 in order to resolve the contradictory text.

R1-050556 Spreading factors and burst types for 7.68Mcps TDD option (IPWireless) (Revision of R1-050456)

13/05/2005 11:45 Presented by Dr. Martin Beale.

Discussion (Question / Comment):

Decision: The document was agreed for inclusion.

13. Evolved UTRA and UTRAN (Physical Layer)

The overview of discussion on this topic is as followed.

1. Simulation parameters for Multiple Access evaluation

Agreed prioritized evaluation cases:

- 2GHz, 500m inter-site distance, 10MHz bandwidth: 100% of users at 20dB penetration loss and 3km/h
- 2GHz, 500m inter-site distance, 10MHz bandwidth: 100% of users at 10dB penetration loss and 30km/h
- 2GHz, 1732m inter-site distance, 10MHz bandwidth: 100% of users at 20dB penetration loss and 3km/h
- 900MHz, 1000m inter-site distance, 1.25MHz bandwidth: 100% of users at 10dB penetration loss and 3km/h

Other scenarios may, and higher velocities (e.g. 120km/h) shall also be verified, details are up to the proponent.

R1-050443 was revised with inclusion the above cases in R1-050558. R1-050558 was endorsed and a corresponding text proposal will be produced at June AH meeting.

2. Multiple Access Schemes (DL&UL)

After the presentation all documents on 13.2, the downlink principle was discussed using R1-050448 from Ericsson assuming the OFDM based MA as the DL MA (if). The drafting content will be sent on the reflector from Ericsson after the meeting and the discussion will continue on the reflector. During this discussion, the concern was raised on Macro diversity issue and synchronization issue. It was commented that macro diversity issue is strongly related to NW architecture, so that RAN1 must not make an assumption for macro diversity. RAN1 had better to communicate with other WGs (RAN2, RAN3, and SA2) and catch up the discussion and decision well. Also RAN1 convenor supported to this opinion. To this issue, the Rapportuer of LTE, Mr. Nakamura from NTT DoCoMo commented (suggestion) to RAN1 Chairman-san that macro diversity issue is very important so that please discuss about Way forward at the joint meeting in Quebec.

13.1 Agreed simulation parameters for Multiple Access evaluation in RAN1 (email discussion before the RAN1 meeting)

R1-050391 UTRAN LTE Multiple Access Evaluation Scenario (ZTE)

The goal of this document is to propose parameters to be used for the UTRAN LTE system level performance studies. As a starting point Nokia suggests 3GPP rel.5&6 system level assumptions to be used whenever appropriate. The intention with the proposed parameters is to have common set of key environment parameters for simulation studies and to speed up simulation platform development for implementation and performance analysis. This document considers the parameters to be used for suburban macro-cell and urban micro-cell.

11/05/2005 09:11 Presented by Mr. Zhisong Zuo

Discussion (Question / Comment):

Decision: This document was noted.

R1-050488 Discussion of the link level interface for MIMO system level simulation (Nortel)

In this contribution, Nortel addresses the issue of link level-to-system level simulation interface including the MIMO/STC (space time coding) cases with the consideration of different channel types, and MIMO modes. The purpose is to allow the simulation comparisons to be based on the same criterion with an easy computation of link-level throughput. And also, they describe the simulation approaches for OFDMA and SC+CP (including IFDMA) separately based on the same measurement criterion. The methods proposed in this contribution are applicable to both DL and UL

11/05/2005 09:20 Presented by Dr. Wen Tong

Discussion (Question / Comment): The question was asked about the receiver assumption. It was not included to beamforming. There are some question and comments on the computed factor and how to schedule

Decision: This document was noted.

R1-050494 E-UTRA simulation setup considerations (TeliaSonera)

This document continues the E-UTRA simulation setup discussions. At the RAN WG1 #40bis meeting first proposals for simulation parameters were presented. This document provides TeliaSonera view on the general parameter setup for this evaluation.

11/05/2005 09:30 Presented by Mr. Rickard Ljung.

Discussion (Question / Comment): The long discussion on “small site to site distance, e.g. 500 meters” continued. Some companies supported, the reasons, e.g. high capacity and high bit rate by small cell, keep number of models for the environment of Europe. Other companies did not support because we don't much simulation and should prioritize and many companies catch up the model rapidly.

Decision: This document was noted.

R1-050443 System Assumptions and Evaluation for EUTRA

(Motorola, Nokia, Samsung)

This contribution proposes baseline simulation assumptions and evaluation criteria (SA&E) for EUTRA and UTRA (HSDPA/HSUPA) for selecting EUTRA radio access schemes. A basic set of SA&E is needed to provide some level of confidence and minimal consistency when results are presented by different companies. Calibration between companies is not seen as mandatory and is of course at their discretion.

11/05/2005 10:00 Presented by Mr. Robert Love.

Discussion (Question / Comment): There was a long time discussion on inter-site distance and penetration loss. Some companies commented that we should focus simulation assumption to precede the SI work rapidly. And also, regarding the set of frequency band, inter-site distance, penetration loss and velocity, a long discussion continued. Some companies raised concerns that we considered the high velocities, e.g. 120km/h, and also, other sets were proposed. But it was commented from some companies that at first for SI stage we should minimize the sets.

Decision: This document was noted and revised in R1-050558 with inclusion of the following cases.

Agreed prioritized evaluation cases: (Chairman's note)

- 2GHz, 500m inter-site distance, 10MHz bandwidth: 100% of users at 20dB penetration loss and 3km/h
- 2GHz, 500m inter-site distance, 10MHz bandwidth: 100% of users at 10dB penetration loss and 30km/h
- 2GHz, 1732m inter-site distance, 10MHz bandwidth: 100% of users at 20dB penetration loss and 3km/h
- 900MHz, 1000m inter-site distance, 1.25MHz bandwidth: 100% of users at 10dB penetration loss and 3km/h

Other scenarios may, and higher velocities (e.g. 120km/h) shall also be verified, details are up to the proponent.

R1-050558 System Assumptions and Evaluation for EUTRA

(Motorola, Nokia, Samsung) (Revision of R1-050443)

12/05/2005 17:30 Presented by Mr. Robert Love.

Discussion (Question / Comment):

Produce the text proposal in next time.

Decision: This document was endorsed and a corresponding text proposal will be produced at June AH meeting.

R1-050442 Key Aspects for Initial Assessment of LTE Multiple Access Concepts in RAN1

(Philips)

In the document, Philips proposes the Evolved UTRA layer 1 concept addresses the aspects (Mobility Aspects, Radio Resource Management Aspects, Complexity Aspects, Compatibility Aspects), in addition to the key requirements documented in TR25.812. Any proposal for the Evolved UTRA layer 1 concept must include an outline indication of the approach used for each aspect.

11/05/2005 12:10 Presented by Mr. Matthew Baker.

Discussion (Question / Comment): RAN1 convenor and some companies commented that we start from the multiple access (MA) scheme, and we don't need to check these requirements at first, after the MA, now it is difficult to check these items. Some companies agree that RAN1 cover the mobility aspect on RAN1 TR because it's our area and is related to MA

Finally, RAN1 convenor commented that this was not urgent thing, we had better take more time. He suggested the delegates to discussion on the reflector

Decision: This document was noted. Revisit at the June meeting.

Withdrawn

R1-050482 **Evaluation parameters for Evolved UTRA** **(SHRCWC)**
R1-050503 **Evaluation of Multiple Access for EUTRA** **(InterDigital)**

13.2 Further discussion on Multiple Access Schemes (DL&UL)

UL/DL Contribution

R1-050390 **EUTRA Multiple Access Scheme for Downlink and Uplink** **(ZTE)**

In this document, ZTE comments the best scheme would be OFDMA/TDMA with distributed FDMA mode for the downlink FDD systems and the localized FDMA based OFDMA/TDMA is preferable for the downlink TDD systems. (OFDMA/TDMA/CDMA might also be considered). As for the Uplink, the best scheme would be SC-IFDMA/TDMA for the uplink FDD systems and the SC-FDMA/TDMA is preferable for the downlink TDD systems. (OFDMA/TDMA might also be considered.)

11/05/2005 14:15 Presented by Mr. Zhisong Zuo

Discussion (Question / Comment):

Decision: This document was noted

R1-050452 **Multiple Access for E-UTRA** **(NEC Group)**

There has been a lot of discussion on multiple access schemes for the downlink and the uplink for E-UTRA in the RAN1#40bis meeting. This document summarises our current view on downlink and uplink multiple access concepts taking into account the discussions in the RAN1#40bis meeting.

11/05/2005 14:30 Presented by Mr. Diptendu Mitra.

Discussion (Question / Comment): The long discussion on section 2.7 and 3.8 of macro diversity and soft handover issue continued. A question was asked why the macro diversity was not supported for DL, i.e Broadcast.

Decision: This document was noted

R1-050448 **Basic principles for the Evolved UTRA radio-access concept**
(Ericsson, Fujitsu, Motorola, Nokia, NTT DoCoMo, Panasonic, Siemens)

This paper summarizes co-sourcing companies current view on the basic principles for an Evolved UTRA radio-access concept in support of the “Evolved UTRA and UTRAN” Study Item (SI). The paper is based on the co-sourcing company’s contributions to the RAN1#40-bis meeting (Beijing).

11/05/2005 14:50 Presented by Dr. Erik Dahlman from Ericsson

Discussion (Question / Comment): From NEC, the question was asked if the PAPR problem was raised on all UE, the small cell was not problem. The answer to the question that the amplifier of UE must cover the all cell case. i.e. There was a long discussion on the several aspects on these contributions.

Decision: This document was noted

R1-050506 **Comments on basic principles for the Evolved UTRA radio-access concept**
(Philips)

This document concludes that for the downlink, both soft-combining macro-diversity and FCS should be considered for both unicast and broadcast services in EUTRA, and for the uplink, macro-diversity should be available in EUTRA at least within one Node B (or equivalent), and should be strongly considered between different Node Bs.

11/05/2005 15:10 Presented by Mr. Matthew Baker.

Discussion (Question / Comment): Regarding Macro diversity on Uplink, It was asked where is the reception point, Node B or RNC. It was related to E-UTRAN architecture, might merge Node B and RNC. The relation of combining and power control was discussed.

Decision: This document was noted.

R1-050463 **EUTRA Macro Diversity for Downlink and Uplink** **(ZTE)**

11/05/2005 16:40 Presented by Mr. Zhisong Zuo

Discussion (Question / Comment):

Decision: This document was noted.

R1-050451 **On macro diversity for E-UTRA** **(Ericsson)**

R1-050533 **On macro diversity for E-UTRA** **(Ericsson) (Revision of R1-050451)**

This paper presents and evaluates a set of uplink macro diversity schemes and compares them to the case of not using macro diversity, i.e. the use of hard handover. Although there exists extensive previous work within the area of macro diversity, this has focused mainly on dedicated and power controlled radio bearers, and is not directly applicable to the foreseen E-UTRA concept. This paper attempts to use system models more representative for E-UTRA.

11/05/2005 16:50 Presented by Dr. Stefan Parkvall.

Discussion (Question / Comment): The question was asked if HARQ was considered in simulation. The answer was No. Other question was raised on the implementation for scheduling for muting. Now, it was not considered in these documents, later would be shown.

Decision: This document was noted.

R1-050403 Multiple access aspect of TDD LTE (RITT)

In this contribution, RITT proposes an OFDMA/TDMA-based multiple access for the TDD LTE system. This scheme can provide interleaving OFDMA or un-interleaving OFDMA, together with advanced MIMO transmissions. Some main features for the proposed system are presented, e.g. distributed network architecture, AMC and the frequency domain scheduler.

11/05/2005 17:00 Presented by Mr. Jia Shen.

Discussion (Question / Comment): The comment and question on the TDD mode in LTE were raised. RAN1 convener commented that FDD and TDD was same on TR, in just case, only one duplex mode. The concern was raised on the evaluation model for TDD and FDD, they were separated?

Decision: This document was noted.

R1-050464 Physical Channel Structures for Evolved UTRA (NTT DoCoMo)

This contribution presents the physical channel structures for Evolved UTRA assuming OFDM-based radio access in the downlink and single-carrier based radio access in the uplink

11/05/2005 17:15 Presented by Dr. Mamoru Sawahashi.

Discussion (Question / Comment): From Qualcomm, the question was raised on what proposal was prioritized on this contribution, all proposals. The answer to the question was that most prioritized one is the pilot downlink structure, i.e. combination of common and dedicated pilot. Regarding the shared channel,

The question was on the pilot for MBMS and it was clarified that common pilot channel for several PhCH and dedicated pilot is used exclusively for multicast and unicast PhCH. The question was raised on how to realize the accurate power control. The answer to the question was by the CQI based power control. ,

Decision: This document was noted

R1-050449 On the E-UTRA time-frequency granularity (Ericsson)

For the E-UTRA air interface, there is a need to define a time and frequency structure, similarly to the (sub)frame structure in WCDMA. For an OFDM-based downlink, the smallest time/frequency unit possible to allocate to a user for data transmission is sometimes referred to as a 'chunk'. A chunk consists of multiple sub-carriers, occupying a total bandwidth of $BW_{\text{chunk}} = N_{\text{chunk}} \times \Delta f$, and has a duration in time of T_{chunk} . The Node B scheduler uses one or several chunks for transmitting data to a specific user during T_{chunk} , in the same way as one or several codes are used during a sub-frame for data transmission in HSDPA. This paper discusses some aspects on the selection of BW_{chunk} and T_{chunk} , i.e., the granularity of the resource assignment in frequency and time domain.

11/05/2005 17:50 Presented by Dr. Stefan Parkvall.

Discussion (Question / Comment):

The concerns and discussion were raised on chunk BW (200kHz) was depending on frequency bandwidth and the which was prioritized subcarrier spacing or Chunk BW, and also the migration with GSM and UTRA,

Decision: This document was noted

UL Contribution

R1-050383 Uplink multiple access consideration with the use of FDMA (Nokia)

11/05/2005 18:10 Presented by Mr. Antti Toskala

Discussion (Question / Comment): From NTT DoCoMo, the question was asked if the combination of spread and localized was on same TTI. The answer was that one user has one MA per one TTI. (NTT DoCoMo commented that it was the same view as us.) It was clarified that FH was based on TTI, and on the simulation all HARQ processes use the same frequency. The question was asked about the difference between TS and pilot on page 7. The answer was that TS is the indicator for signalling correct and Pilot is only for channel estimation.

Decision: This document was noted

R1-050402 Uplink multiple access aspect of FDD LTE (RITT)

In the document, RITT comment that future mobile communication system should support more efficient radio resource sharing, and hybrid multiple access techniques combining orthogonal multiplexing (FDMA, TDMA) with non-orthogonal multiplexing (CDMA, IDMA and SSDMA) are the desired approaches to meet the requirements. And also A GMC (Generalized MultiCarrier) transmission scheme is introduced and relative key techniques have been developed and evaluated.

11/05/2005 18:30 Presented by Mr. Jia Shen.

Discussion (Question / Comment):

Decision: This document was noted

R1-050439 Uplink Multiple Access and Multiplexing for Evolved UTRA (Samsung)

The summary of this contribution is as followed.

- Uplink orthogonal access based on IFFT multiplexing (OFDMA) is desirable from system spectral efficiency point of view.
- FFT-precoding can provide PAPR benefit for power limited users.
- Possibility to “by-pass” FFT-precoding for non power limited UEs:
 - Efficient MIMO processing and performance
 - Saving on battery consumption for good users in large cells and most of the users in relatively smaller and pico-cell deployments
 - Available headroom for power amplifier back-off
- Physical layer signaling and control can either be FFT-precoded or directly mapped to OFDMA subcarriers:
 - With FFT-precoding, signaling and control also benefits from low PAPR
 - Physical layer signaling and control in parallel with FFT-precoded data provides greater flexibility in resource allocation:
 - Negligible impact on PAPR as long as the number of subcarriers used for signaling and control is relatively smaller compared to the subcarriers used for data.

11/05/2005 18:50 Presented by Mr. Joonyoung Cho

Discussion (Question / Comment): The question and comment were raised on scheduling for FFT-precoding And non FFT-precoding.

Decision: This document was noted

R1-050481 Uplink Multiple Access Scheme for Evolved UTRA (SHRCWC)

In this contribution, the CP based virtual-MC is supposed for the uplink transmission of Evolved UTRA. SHRCWC proposes two types of VMC schemes, i.e, MBFB based and OFDM based VMC. To support such a scheme, multiple technologies have been considered to work coordinately. Of them, scalability in radio bandwidth, high spectrum efficiency, two-layered wireless scheduling, high PA efficiency and good coverage are of the most important features to be implemented.

11/05/2005 19:00 Presented by Mr. Zhigang Zhou.

Discussion (Question / Comment):

Decision: This document was noted

R1-050485 Proposal for the Uplink Multiple Access Scheme for E-UTRA (Update) (Nortel)

11/05/2005 19:10 Presented by Dr. Wen Tong

Discussion (Question / Comment): The question was asked what the benefit for two type for BACH was. The answer was that the diversity BACH is for higher speed and sub-band BACH is for lower speed indoor as shown in page 9.

Decision: This document was noted

R1-050476 Evolved UTRA uplink scheduling and frequency reuse (Siemens)

In this document, Siemens investigates further in uplink issues on frequency re-use and scheduling issues. In general, a “single carrier” approach is advantageous for uplink transmission due to the low PAR. Therefore, this document shows a possibility for the carrier mapping both in localized FDMA and in distributed FDMA schemes.

11/05/2005 19:30 Presented by Dr. Thomas Hindelang.

Discussion (Question / Comment): The question was asked how many frequency is used for the centre, the biterate might be reducing if use much frequency for edge. Currently, we don't have clear assumption.

Decision: This document was noted

R1-050397 EUTRA Uplink Numerology and Frame Structure (Motorola)

Motorola summarizes the Uplink numerology as followed.

- Preferred Multiple Access Scheme Options: IFDMA, DFT-SOFDM(Localized and Distributed FDMA)
- Short and long frames
- Carrier spacing of approximately 20kHz
- Multiple FFT Blocks per sub-frame
- Efficient TDM of pilot, control and contention channel
- Different numerology for IFDMA due to differences in sampling rates

11/05/2005 19:50 Presented by Dr. Amitava Ghosh.

Discussion (Question / Comment): The question and comment was on the definition and difference of three MA scheme.

Decision: This document was noted

R1-050475 PAPR comparison of uplink MA schemes (LG Electronics)

In this contribution, LGE compares the PAPR and CM characteristics of several uplink MA schemes, especially focusing on the OFDM-based schemes such as OFDMA, DFT-s-OFDMA and IFDMA in various conditions.

11/05/2005 20:00 Presented by Mr. Hong-jik Kim

Discussion (Question / Comment): The question was asked about the pulse shaping filter. The answer was that the same one was used for all schemes and it was the same as WCDMA system.

Decision: This document was noted

R1-050487 PAPR Issues and its reduction technique (Nortel)

This contribution addresses the uplink PAPR issue for OFDMA and the associated PAPR reduction technique in the UE.

11/05/2005 20: 10 Presented by Dr. Wen Tong

Discussion (Question / Comment): The questions and concerns were raised on how many tones are used for PAPR reduction: how to reduce in case of high data rate. The many tones (e.g. half of tones) are used for the reduction, the bitrate is down.

Decision: This document was noted

R1-050500 Uplink Capacity with Advanced Receivers and Multiple Rx Antennas (Qualcomm Europe)

In this document, Qualcomm provides a summary of the results already published in open literature (References) and examine the improvement in spectral efficiency (b/s/Hz) due to interference cancellation, and also present s Shannon capacity results for an uplink CDMA channel in a multi-cell scenario.

11/05/2005 20:25 Presented by Dr. Durga Malladi

Discussion (Question / Comment):

Decision: This document was noted

R1-050501 System level performance of EUL with enhanced receiver and multiple Rx antennas - Full buffer (Qualcomm Europe)

Qualcomm considered a traditional matched filter (MF) receiver, which treats interference from other users as white noise and a successive interference cancellation (SIC) receiver, where users are decoded in a serial fashion and interference from users that are correctly decoded is cancelled. In this document, Qualcomm demonstrates what is practically achievable with SIC in EUL (R1-050261) and compare the results with those obtained using a MF receiver.

11/05/2005 20:35 Presented by Dr. Durga Malladi

Discussion (Question / Comment): The question was asked if 10MHz is single carrier or two 5 MHz carriers. Two 5 MHz carriers were used. The other questions were raised on the average cancellation level for SIC, SIC for more than 10 users case.

Decision: This document was noted

DL Contribution

R1-050401 Downlink multiple access aspect of FDD LTE (RITT)

In this contribution, further considerations on the downlink for LTE PHY layer is provided, including the aspects of multiple access and transmission techniques for both intra-cell and inter-cell scenarios in FDD downlink systems. LTE system should support more efficient radio resource sharing. Hybrid multiple access schemes combining orthogonal multiplexing (FDMA, TDMA) with non-orthogonal multiplexing (CDMA, IDMA and SSDMA) can well meet the requirements. OFDM is preferred as the major transmission technique in downlink. IDMA is preferred as the whitening technique for coping with the increasing co-channel interference.

12/05/2005 09:05 Presented by Mr. Jia Shen.

Discussion (Question / Comment): The question was raised on IDMA concept: BSs were synchronous to each other, and also UE were synchronous to all BSs. The concerns were raised on the simulation results of CDMA.

Decision: This document was noted.

R1-050480 Downlink Multiple Access Scheme for Evolved UTRA (SHRCWC)

In this contribution, the CP based virtual-MC is supposed for the downlink transmission of Evolved UTRA. To support such a scheme, multiple technologies have been considered to work coordinately. Of them, scalability in radio bandwidth, high spectrum efficiency, two-layered wireless scheduling, hotspot coverage optimization and co-channel interference averaging are of the most important features to be implemented.

12/05/2005 09:30 Presented by Mr. Zhigang Zhou.

Discussion (Question / Comment): RAN1 convenor suggest that the detail scheme will be provided later a little by little.

Decision: This document was noted.

R1-050484 Proposal for the Downlink Multiple Access Scheme for E-UTRA (Update) (Nortel)

In this document, Nortel proposes DL MIMO-OFDM frame structure, DL MIMO-OFDM parameters, DL MIMO-OFDM L1 structure, and DL MIMO-OFDM operation modes.

12/05/2005 09:40 Presented by Dr. Wen Tong

Discussion (Question / Comment): The long discussion continued on the parameter on table. The question was asked how many CQI reporting is for TTI. The answer was one CQI per TTI with contained two information, one is information of the SNR in the receiver and another is additional information for MIMO. The question was asked if the continuous pilot is in same location. => yes.

Decision: This document was noted.

R1-050486 Text proposal for high level description of DL-OFDMA concept (Nortel)

This paper is a text proposal for inclusion in *the RAN1 TR* giving an overview of the concept presented in R1-050484 and R1-050267

12/05/2005 10:00 Presented by Dr. Wen Tong

Discussion (Question / Comment): This time, the text proposal is not approved because the TR number has not been allocated. The approval is postponed to June meeting. RAN1 chairman suggested that every delegates cooperate with each other to make the text proposal, that is, don't make the detail proposal to same section by one company. Please discussion on the e-mail reflector.

Decision: This document was noted.

R1-050438 Downlink Multiple Access and Multiplexing for Evolved UTRA (Samsung)

12/05/2005 10:10 Presented by Mr. Eddy Kwon

Discussion (Question / Comment): The question was asked about bandwidth and SF in simulation. Bandwidth is 5MHz, SF is 256 and sub-carrier is 256, all sub-carrier are for data transmission.

Decision: This document was noted.

R1-050384 Downlink multiple access parameterisation (Nokia)

This contribution outlines several desired properties for the OFDM downlink numerology. What comes to uplink, then obviously compliant symbol rates should be used regardless of the uplink solution. As the next step in agreeing the numerology it is expected that the requirement discussion in the Quebec WG meeting needs to be finalized, and then the actual numerology can be agreed on and laid down for the evaluation work.

12/05/2005 11:20 Presented by Mr. Antti Toskala

Discussion (Question / Comment): The long discussion continues on carrier spacing (10kHz, 15kHz) optimization and parameters for Unicast and broadcast, e.g. the same or optimized for each type. Finally, RAN1 convenor commented that parameter will be two or more according to type of services, Unicast and Broadcast.

Decision: This document was noted.

R1-050386 Views on OFDM Parameter Set for Evolved UTRA Downlink (NTT DoCoMo, Ericsson, Fujitsu, Mitsubishi Electric, NEC, Nortel, Panasonic, Texas Instruments)

This contribution presents the requirements for deciding the OFDM parameter set and the design of OFDM parameter set in the OFDM-based downlink radio access for Evolved UTRA. It provides the OFDM parameter set for Unicast and for Multicast/Broadcast.

12/05/2005 11:50 Presented by Dr. Mamoru Sawahashi

Discussion (Question / Comment): The question was asked about Node B synchronization. NTT DoCoMo commented that at first the inter Node B we think asynchronous, but taking the OFDM-MBMS into account inter cell synchronization is necessary. And also they commented that filtering is very complicated, so need further investigation. The discussions were on the parameter on the parameter sets.

Decision: This document was noted.

R1-050396 EUTRA Downlink Numerology and Frame Structure (Motorola)
R1-050520 EUTRA Downlink Numerology and Frame Structure (Motorola) (Revision of R1-050396)

12/05/2005 12:20 Presented by Mr. Robert Love.

Discussion (Question / Comment): From Nokia, it was commented that the figure in slide 6 is an excellent work with captured the Doppler and phase noise

Decision: This document was noted.

R1-050387 E-UTRA Downlink Multiple Access Study (Texas Instruments)

12/05/2005 14:15 Presented by Dr. Tim Schmidl.

Discussion (Question / Comment): The question was asked the system simulation parameter such as penetration loss. That is 3GPP assumption. The comment was raised on 4 by 4 MIMO, the answer was that start to investigate the MIMO scheme. . The concerns was raised on system simulation results and frequency domain equalizer FDM with LMMSE

Decision: This document was noted.

Interference

R1-050405 Inter-cell interference estimation for OFDMA and MC-CDMA on the DL (France Telecom & Orange)

Due to the frequency reuse of 1 target, the propagation conditions will inevitably be interference limited, thus all these multiple access schemes will require efficient solutions to cope with this issue. In this document, they introduce the issue of inter-cell interference estimation for 2 OFDM-based multiple access schemes: OFDMA and MC-CDMA.

12/05/2005 14:50 Presented by Mr. Jean-philippe Javaudin

Discussion (Question / Comment): The question was asked if MC-CDMA is same as OFCDMA. => Yes.

Decision: This document was noted.

R1-050406 OFDM-based physical layer for the DL: inter-cell interference avoidance/cancellation/estimation (France Telecom & Orange, Alcatel)

Due to the frequency reuse of 1 target, the propagation conditions will inevitably be interference limited, thus all these multiple access schemes will require efficient solutions to cope with this issue. In this contribution, they propose various ways to reduce the impact of inter-cell interference on OFDM-based systems. The reduction of the inter-cell interference level is crucial to meet the LTE requirements in terms of spectral efficiency and cell edge bit rate.

12/05/2005 10:00 Presented by Mr. Jean-philippe Javaudin

Discussion (Question / Comment): The question was asked if the interference coordination was same as mapping sub-carrier. =>Yes.

Discussion (Question / Comment): Regarding the synchronization issue, it was commented from the operator viewpoint that for the indoor and large cell case (GPS date delay) it was very difficult, so hope all BS asynchronous.

Decision: This document was noted.

**R1-050497 Link level performance of SC-HSDPA beyond enhanced receiver type II
(Qualcomm Europe)**

In this document, we discuss the link performance of R6 HSDPA with advanced receivers. The objective of this document is to establish a reference set of SC-FDE link results with turbo codes in different conditions. This can be used for a possible comparison with LMMSE results generated in RAN4 and with future link results presented during LTE discussions.
12/05/2005 16:50 Presented by Dr. Durga, Malladi

Discussion (Question / Comment): The question and discussion were on channel estimation.

Decision: This document was noted.

**R1-050498 System level performance of MC-HSDPA with enhanced receiver and multiple
Rx antennas - Full buffer (Qualcomm Europe)**

In this document, Qualcomm expands upon the proposal outlined in R1-050262 and describe one candidate design approach of multi-cell HSDPA. This approach requires no changes to 25.211, 25.212 nor 25.213 and enables the re-use of release-6 hardware. It relies on changes to UE procedures defined in 25.214 and the definition of additional performance requirements. Qualcomm evaluates the system benefit of dual Rx diversity at the UE, coupled with the use of an advanced receiver type II (linear MMSE equalizer) in a reference MC-HSDPA setup. This will establish a baseline which will further improve with the use of enhanced receiver beyond the type II as discussed in R1-050497.

12/05/2005 17:05 Presented by Dr. Durga, Malladi

Discussion (Question / Comment):

Decision: This document was noted.

**R1-050499 System level performance of MC-HSDPA with enhanced receiver and multiple
Rx antennas - Traffic models (Qualcomm Europe)**

Enhanced radio techniques can be used to improve the system capacity, the quality of service or a combination of both. In this document, Qualcomm evaluates the packet delay performance improvement offered by the MC-HSDPA approach and dual antenna receive diversity described in R1-050498; this evaluation is based on the usual 3GPP traffic models.

12/05/2005 17:25 Presented by Dr. Durga, Malladi

Discussion (Question / Comment):

Decision: This document was noted.

After the presentation all documents on 13.2, the downlink principle was discussed using R1-050448 from Ericsson assuming the OFDM based MA as the DL (if). The drafting content will be sent on the reflector from Ericsson after the meeting and the discussion will continue on the reflector. During this discussion, the concern was raised on Macro diversity issue and synchronization issue. From Nortel, it was commented that macro diversity issue is strongly related to NW architecture, so that RAN1 must not make an assumption for macro diversity. At first, RAN1 communicate with other WGs (RAN2, RAN3, SA2) and catch up the discussion and decision well. Also RAN1 convener supported to this opinion. To the discussion, the Rapportuer of LTE, Mr. Nakamura from NTT DoCoMo commented (suggestion) to RAN1 Chairman-san that macro diversity issue is very important so that please discuss about Way forward at the joint meeting in Quebec.

Finally, RAN1 convener commented that we don't have any official decision and agreement regarding multiple access schemes. From AH in June, we will get TR number for RAN1 TR and start to approve the text proposal.

Withdrawn

R1-050404	Soft Frequency Reuse Scheme for UTRAN LTE	(Huawei)
R1-050459	Uplink Multiple Access for EUTRA	(InterDigital)
R1-050462	Downlink Multiple Access for EUTRA	(InterDigital)

14. Closing of the meeting : Friday 5.00 PM

13/05/2005 12: 00. RAN1 Convener, Mr. Dirk Gerstenberger expressed his appreciation to the delegates and the host, the European Friends of 3GPP for their supports. RAN1 #41 meeting was closed.

Annex A: List of participants at RAN1 #41

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Annex B: TSG RAN WG1 meetings in 2005

TITLE	TYPE	DATES	LOCATION	CTRY
<u>3GPPRAN1#40</u>	<u>WG</u>	14 - 18 Feb 2005	Scottsdale	USA
<u>3GPPRAN1#40bis</u>	<u>WG</u>	04 - 08 April 2005	Beijing	China
<u>3GPPRAN1#41</u>	<u>WG</u>	09 - 13 May 2005	Athens	GR
<u>3GPPRAN1 Ad Hoc LTE</u>	<u>AH</u>	20-21 June 2005	Sophia Antipolis	FR
<u>3GPPRAN1#42</u>	<u>WG</u>	29 Aug -02 Sept 2005	London	UK
<u>3GPPRAN1#42bis</u>		03 -07 Oct 2005	TBD	TBD
<u>3GPPRAN1#43</u>	<u>WG</u>	07 - 11 Nov 2005	Korea	Asia

<u>MEETING TYPES</u>	
AH = Ad Hoc	CM = Chairmen's meeting
JM = Joint	OR = Ordinary
PM = Preparatory Meeting	RG = Rapporteurs Group
RM = Resolution Meeting	SG = Steering Group
ST = Startup Meeting	TG = Task Group
WG = Working Group	XO = Extraordinary

Annex C: List of CRs agreed at RAN1#41

Spec	CR	R	Cat	Rel	R1 Tdoc	Title	Work Item
25.224	144	2	F	Rel-6	R1-050567	Clarification of UpPCH Sub-channel for 1.28 Mcps TDD	LCRTDD-Phys
25.221	122	1	F	Rel-4	R1-050515	Correction to Transmission of SS for 1.28 Mcps TDD	LCRTDD-Phys
25.221	123	1	A	Rel-5	R1-050515	Correction to Transmission of SS for 1.28 Mcps TDD	LCRTDD-Phys
25.221	124	1	A	Rel-6	R1-050515	Correction to Transmission of SS for 1.28 Mcps TDD	LCRTDD-Phys
25.221	127	1	F	Rel-6	R1-050516	Correction to the examples of the association of UL SS commands to UL uplink time slots	LCRTDD-Phys
25.221	128	1	F	Rel-4	R1-050517	Correction to transmission of TPC for 1.28 Mcps TDD	LCRTDD-Phys
25.221	129	1	A	Rel-5	R1-050517	Correction to transmission of TPC for 1.28 Mcps TDD	LCRTDD-Phys
25.221	130	1	A	Rel-6	R1-050517	Correction to transmission of TPC for 1.28 Mcps TDD	LCRTDD-Phys
25.221	133	1	F	Rel-6	R1-050518	Correction to the examples of the association of UL TPC commands to UL uplink time slot and CCTrCH pairs	LCRTDD-Phys
25.211	206	-	C	Rel-5	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.211	207	-	C	Rel-6	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.212	209	-	C	Rel-5	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.212	210	-	C	Rel-6	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.213	078	-	C	Rel-5	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.213	078	-	C	Rel-6	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.214	376	1	C	Rel-5	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.214	377	1	C	Rel-6	R1-050548	Feature Clean Up: Removal of DSCH (FDD mode)	TEI
25.212	211	1	C	Rel-5	R1-050522	Feature Clean Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512	TEI
25.212	212	1	C	Rel-6	R1-050522	Feature Clean Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512	TEI
25.215	162	-	C	Rel-5	R1-050417	Feature Clean Up: Removal of observed time difference to GSM cell measurement	TEI
25.215	163	-	C	Rel-6	R1-050417	Feature Clean Up: Removal of observed time difference to GSM cell measurement	TEI
25.211	213	-	C	Rel-5	R1-050446	Feature Clean Up: Removal of "SSDT	TEI
25.211	214	-	C	Rel-6	R1-050446	Feature Clean Up: Removal of "SSDT	TEI
25.214	383	-	C	Rel-5	R1-050446	Feature Clean Up: Removal of "SSDT	TEI
25.214	384	-	C	Rel-6	R1-050446	Feature Clean Up: Removal of "SSDT	TEI
25.211	216	-	C	Rel-5	R1-050523	Feature Clean Up: Removal of TX diversity closed loop mode 2	TEI
25.211	217	-	C	Rel-6	R1-050523	Feature Clean Up: Removal of TX diversity closed loop mode 2	TEI
25.214	386	1	C	Rel-5	R1-050523	Feature Clean Up: Removal of TX diversity closed loop mode 2	TEI

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25.214	387	1	C	Rel-6	R1-050523	Feature Clean Up: Removal of TX diversity closed loop mode 2	TEI
25.211	218	-	C	Rel-5	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.211	219	-	C	Rel-6	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.212	213	1	C	Rel-5	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.212	218	1	C	Rel-6	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.214	388	-	C	Rel-5	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.214	389	-	C	Rel-6	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.215	164	-	C	Rel-5	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.215	165	-	C	Rel-6	R1-050525	Feature Clean Up: Removal of Compressed mode by puncturing	TEI
25.211	220	-	C	Rel-5	R1-050526	Feature Clean Up: Removal of dedicated pilot as sole phase reference	TEI
25.211	221	-	C	Rel-6	R1-050526	Feature Clean Up: Removal of dedicated pilot as sole phase reference	TEI
25.214	390	1	C	Rel-5	R1-050526	Feature Clean Up: Removal of dedicated pilot as sole phase reference	TEI
25.214	391	1	C	Rel-6	R1-050526	Feature Clean Up: Removal of dedicated pilot as sole phase reference	TEI
25.201	020	-	C	Rel-5	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.201	021	-	C	Rel-6	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.211	204	1	C	Rel-5	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.211	205	1	C	Rel-6	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.212	207	1	C	Rel-5	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.212	208	1	C	Rel-6	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.213	076	1	C	Rel-5	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.213	077	2	C	Rel-6	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.214	374	1	C	Rel-5	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.214	375	1	C	Rel-6	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.215	160	-	C	Rel-5	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.215	161	-	C	Rel-6	R1-050568	Feature Clean Up: Removal of CPCH	TEI
25.214	379	-	F	Rel-6	R1-050421	Correction to downlink synchronization	TEI6
25.214	354	4	C	Rel-6	R1-050444	Timing Maintained Hard Handover	TEI6
25.214	355	4	B	Rel-6	R1-050529	Fast L1 DCH synchronization	TEI6
25.213	080	-	F	Rel-6	R1-050465	Correction to uplink short scrambling code polynomial	TEI6
25.212	217	1	F	Rel-6	R1-050530	MBMS related corrections	MBMS-RAN
25.214	392	1	F	Rel-6	R1-050531	Removal of MBMS Rake Combining	MBMS-RAN
25.214	393	1	F	Rel-5	R1-050532	HS-DPCCH transmission on discarding HS-SCCH	TEI
25.214	394	1	F	Rel-6	R1-050532	HS-DPCCH transmission on discarding HS-SCCH	TEI
25.213	074	2	F	Rel-6	R1-050537	Power Offset values for E-PDDCH/E-DPCCH	EDCH-Phys
25.212	204	2	F	Rel-6	R1-050540	E-DCH Corrections	EDCH-Phys
25.212	219	-	F	Rel-6	R1-050505	Re-ordering of the E-DPCCH bit mapping	EDCH-Phys
25.212	205	1	F	Rel-6	R1-050541	Compressed Mode Operation for Enhanced Uplink	EDCH-Phys
25.214	382	2	F	Rel-6	R1-050542	Compressed mode operation for Enhanced Uplink	EDCH-Phys

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25.214	381	1	F	Rel-6	R1-050536	DPCCH gain factor with no DPDCH configured	EDCH-Phys
25.212	220	-	F	Rel-6	R1-050543	Coding for E-AGCH	EDCH-Phys
25.211	210	1	F	Rel-6	R1-050544	Clarification on EACGH transmission interval	EDCH-Phys
25.211	212	1	F	Rel-6	R1-050546	Clarification on E-DCH timing	EDCH-Phys
25.212	215	-	F	Rel-6	R1-050429	Clarification on E-AGCH bit mapping	EDCH-Phys
25.213	075	3	F	Rel-6	R1-050549	Support of different HARQ profiles	EDCH-Phys
25.214	372	3	F	Rel-6	R1-050550	Support of different HARQ profiles	EDCH-Phys
25.212	216	-	F	Rel-6	R1-050434	Determination of SF and number of PhCHs considering SF2	EDCH-Phys
25.214	363	4	F	Rel-6	R1-050565	Power control at the maximum power limit	EDCH-Phys
25.211	211	2	F	Rel-6	R1-050570	Clarification on phase reference for downlink channels	TEI6
25.214	380	3	F	Rel-6	R1-050576	Clarification on E-DCH timing	EDCH-Phys
25.214	378	1	F	Rel-6	R1-050575	F-DPCH Downlink Power Control Behaviour in SHO	RANimp-RABSE-CodeOptFDD

Annex D: List of Outgoing LSs

NUMBER	TITLE	WI	To	Cc
R1-050512	LS on the Introduction of Streaming RABs over HSDPA	RAB support enhancement	RAN2	-
R1-050535	Response LS to ITU-R Ad Hoc		ITU-R Ad Hoc	-
R1-050551	LS on correction of default parameters of UL:384kbps PS RAB	TEI5	RAN5	RAN2
R1-050557	LS on E-DCH RRM measurements		RAN2, RAN3, RAN4	
R1-050561	Reply LS on S-CCPCH power offset signalling for MBMS	MBMS-RAN	RAN2	RAN4
R1-050563	Reply LS on Outer-loop TPC behaviour in 0 bit TB reception for A-DPCH	TEI5	RAN2, RAN4	RAN3
R1-050566	Reply LS on verification of parameters for proposed HSDPA Streaming RABs in 34.108	HSDPA	RAN5	RAN2
R1-050569	LS on periodic transmission for EUL outer loop power control	FDD Enhanced Uplink	RAN2	RAN4
R1-050573	LS on Introduction of PLCCH for 1.28Mcps TDD	RANimp-RABSE-CodOptLCRTDD	RAN2, RAN3, RNA4	

Annex E: List of Tdocs at RAN1 #41

NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050375	Draft Agenda	RAN1 Convener	2		09/05/2005	Approved
R1-050376	Draft report from RAN1#40bis	RAN1 Secretary	3		09/05/2005	Approved
R1-050377	LS on S-CCPCH Power Offset Signaling for MBMS (To:RAN1, RAN4, Cc:RAN3)	WG RAN2 (Motorola)	5	= R2-051113	09/05/2005	Noted. Draft reply LS in R1-050539.
R1-050378	LS on MBMS UE capability update for FDD (To:RAN1, Cc:RAN3, RAN4)	WG RAN2 (Motorola)	5	= R2-051197	09/05/2005	Noted
R1-050379	LS on MBMS S-CCPCH timing offset (To:RAN3, Cc:RAN1)	WG RAN2 (Ericsson)	5	= R2-050098	09/05/2005	Noted. Adjustment of PhCH timing is not desired way to go, CFN/SFN alignment (as proposed in RAN2 updated CR is preferable). MBMS Timing offsets as agreed by RAN2 are endorsed by RAN1.
R1-050380	LS on Long Term Evolution for the UTRA and UTRAN (To:RAN, RAN1, RAN2, RAN3, RAN4, RAN5, Cc:SA)	WG SA1 (NTT DoCoMo)	5	= S1-050521	09/05/2005	Noted
R1-050381	Reply LS on MBMS User Service finalization from SA4 (To:SA4, Cc:RAN1, RAN2, RAN3, RAN4, SA1, SA3, CT1, CT3)	WG SA2	5	= S2-050948	09/05/2005	Noted
R1-050382	LS on Update Submission for UTRA FDD and TDD toward Revision 6 of Recommendation ITU-R M.1457 (To: RAN1, RAN2, RAN3, RAN4, RAN5)	ITU-R Ad Hoc (TIM)	5	= RT-050011	09/05/2005	Noted. Draft Reply LS in R1-050511.
R1-050383	Uplink multiple access consideration with the use of FDMA	Nokia	13.2		11/05/2005	Noted
R1-050384	Downlink multiple access parameterisation	Nokia	13.2		12/05/2005	Noted
R1-050385	25.221CR119(Rel 4, F)CR120(Rel 5, A)CR121(Rel 6, A) "Corrections of TPC and SS command Transmission for 1.28Mcps-TDD"	Siemens AG	6.2			Withdrawn
R1-050386	Views on OFDM Numerology for Evolved UTRA Downlink	NTT DoCoMo	13.2		12/05/2005	Noted
R1-050387	E-UTRA Downlink Multiple Access Study	Texas Instruments	13.2		12/05/2005	Noted

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050388	Set of CRs (Rel-5,C) and (Rel-6, C) to 25.201&25.211&25.212&25.213&25.214&25.215 on Feature Clean Up: Removal of CPGH	Motorola	6.3			Withdrawn
R1-050389	Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.213&25.214 on Feature Clean Up: Removal of DSCH (FDD mode)	LG Electronics	6.3		09/05/2005	CR on TS25.214 was revised in R1-050548
R1-050390	EUTRA Multiple Access Scheme for Downlink and Uplink	ZTE	13.2		11/05/2005	Noted
R1-050391	UTRAN LTE Multiple Access Evaluation Scenario	ZTE	13.1		11/05/2005	Noted
R1-050392	Coding Procedure for PLCCH	UTStarcom and IPWireless	10		10/05/2005	The principle of the proposal was agreed.
R1-050393	Draft Set of CRs(Rel-7, B) to 25.221&25.222&25.224 on Introduction of the Physical Layer Common Control Channel (PLCCH)	UTStarcom and IPWireless	10		10/05/2005	Noted
R1-050394	Consideration for RRM measurements	ZTE	7.3		10/05/2005	Noted
R1-050395	Correction of default parameters of UL:384kbps PS RAB	NTT DoCoMo	6.5		09/05/2005	Principle was agreed.
R1-050396	EUTRA Downlink Numerology and Frame Structure	Motorola	13.2			Revised in R1-050520
R1-050397	EUTRA Uplink Numerology and Frame Structure	Motorola	13.2		11/05/2005	Noted
R1-050398	25.212CR204r1(Rel6, F)"E-DCH Corrections"	Siemens	7.2		10/05/2005	Revised in R1-050540.
R1-050399	Correction of Rate Matching Parameters for E-DCH	Siemens	7.2			Revised in R1-050509
R1-050400	25.212CR205(Rel6, F)"Compressed Mode Operation for Enhanced Uplink"	Siemens, Ericsson, Nokia, Nortel, Philips, Qualcomm Europe	7.2		10/05/2005	Revised in R1-050541.
R1-050401	Downlink multiple access aspect of FDD LTE	RITT	13.2		12/05/2005	Noted
R1-050402	Uplink multiple access aspect of FDD LTE	RITT	13.2		11/05/2005	Noted
R1-050403	Multiple access aspect of TDD LTE	RITT	13.2		12/05/2005	Noted

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050404	Soft Frequency Reuse Scheme for UTRAN-LTE	Huawei	13.2			Withdrawn
R1-050405	Inter-cell interference estimation for OFDMA and MC-CDMA on the DL	France Telecom & Orange	13.2		12/05/2005	Noted
R1-050406	OFDM-based physical layer for the DL: inter-cell interference avoidance/cancellation/estimation	France Telecom & Orange, Alcatel	13.2		12/05/2005	Noted
R1-050407	Interference Coordination in new OFDM DL air interface	Alcatel	13.2		12/05/2005	Noted
R1-050408	Text Proposals for Inclusion in TR "Physical Layer Aspect for Evolved UTRA"	Alcatel, France Telecom	13.2		12/05/2005	Noted
R1-050409	Concerns on RoT measurements for E-DCH RRM	Orange	7.3		10/05/2005	Noted
R1-050410	25.224CR142(Rel4, F)CR143(Rel5, A)CR144(Rel6, A) "Clarification of UpPCH Sub-channel for 1.28 Mcps TDD "	ZTE, CCSA	6.2		09/05/2005	Rel4 CR misses the isolated impact analysis, not clear how severe the change/clarification is. Updated CRs in R1-050514.
R1-050411	25.221CR122(Rel4, F)CR123(Rel5, A)CR124(Rel6, A) "Correction to Transmission of SS for 1.28 Mcps TDD"	ZTE, CCSA	6.2		09/05/2005	Updated CR in R1-050515
R1-050412	25.221CR125(Rel4, F)CR126(Rel5, A)CR127(Rel6, A) "Correction to the examples of the association of UL SS commands to UL uplink time slots"	ZTE, CCSA	6.2		09/05/2005	Rel4 and Rel5 CRs were rejected. Rel-6 CR was updated on R1-050516.
R1-050413	25.221CR128(Rel4, F)CR129(Rel5, A)CR130(Rel6, A) "Correction to transmission of TPC for 1.28 Mcps TDD"	ZTE, CCSA	6.2		09/05/2005	Update CRs in R1-050517
R1-050414	25.221CR131(Rel4, F)CR132(Rel5, A)CR133(Rel6, A) "Correction to the examples of the association of UL TPC commands to UL uplink time slot and CCTrCH pairs"	ZTE, CCSA	6.2		09/05/2005	Rel4 and Rel5 CRs were rejected. Rel-6 CR was updated on R1-050518.
R1-050415	25.201CR022(Rel6, F) "Addition of abbreviation list"	ZTE, CCSA	6.4		09/05/2005	Rejected
R1-050416	25.212CR211(Rel-5,C)CR212(Rel-6,C)"Feature Clean-Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512"	Nokia	6.3		09/05/2005	Revised in Tdoc R1-050522

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050417	25.215CR162(Rel-5,C)CR163(Rel-6,C)"Feature Clean Up: Removal of observed time difference to GSM cell measurement"	Nokia	6.3		09/05/2005	Agreed.
R1-050418	25.211CR208(Rel-6,F)"Summary of F-DPCH operation during SHO"	Nokia	6.4		09/05/2005	Noted that the proposed text is a good example of NW operation, but it does not need to be specified.
R1-050419	25.214CR378(Rel-6,F)"F-DPCH Downlink Power Control Behaviour in SHO"	Nokia	6.4		09/05/2005	Continue discussion via email reflector until RAN plenary with target to reach agreement. On the e-mail discussion, it was suggested to change in the wording. This CR was revised in R1-050375.
R1-050420	25.211CR209(Rel-6,F)"MICH Phase references"	Nokia	6.4			this CR was covered by Qualcomm R1-050426, so not treated.
R1-050421	25.214CR379(Rel-6,F)"Correction to downlink synchronization"	Qualcomm Europe	6.4		09/05/2005	Agreed
R1-050422	25.211CR215(Rel-6,F)"Support of CLTD mode 1 with F-DPCH"	Qualcomm Europe	6.4		09/05/2005	Not Available
R1-050423	Antenna receive diversity for MBMS Rel-6 UE	Qualcomm Europe	6.5		09/05/2005	Noted
R1-050424	Proposal for E-DPDCH gain factors	Qualcomm Europe	7.1		10/05/2005	Noted
R1-050425	25.211CR210(Rel-6,F)"Clarification on EACGH transmission interval"	Qualcomm Europe	7.2		10/05/2005	Agreed in principle, and revised in R1-050544
R1-050426	25.211CR211(Rel-6,F)"Clarification on phase reference for downlink channels"	Qualcomm Europe	7.2		10/05/2005	Revised in R1-050545 including the proposal from R1-050493.
R1-050427	25.211CR212(Rel-6,F)"Clarification on E-DCH timing"	Qualcomm Europe	7.2		10/05/2005	Revised in R1-050546
R1-050428	25.212CR214(Rel-6,F)"Clarification on E-DPCCH bit mapping"	Qualcomm Europe	7.2	R1-050466		Revised in R1-050466
R1-050429	25.212CR215(Rel-6,F)"Clarification on E-AGCH bit mapping"	Qualcomm Europe	7.2		10/05/2005	Agreed
R1-050430	25.214CR380(Rel-6,F)"Clarification on E-DCH timing"	Qualcomm Europe	7.2		10/05/2005	Revised in R1-050547

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050431	25.213CR075r2(Rel-6,F) on support of different HARQ profiles	Samsung, LG Electronics, Philips	7.2	(R1-050355)	10/05/2005	Decided to move sqrt(2) multiplication for SF2 to 25.214 CR, and also split the table for E-DPDCH, add a pointer to 25.214 CR. This CR was revised in R1-050549.
R1-050432	25.214CR372r3(Rel-6,F) on support of different HARQ profiles	Samsung, LG Electronics, Philips	7.2	(R1-050358)	10/05/2005	Revised in R1-050550.
R1-050433	25.214CR363r2(Rel-6,F) on power control at the maximum power limit	Samsung, NEC, Nokia, Panasonic, Philips, Qualcomm Europe	7.2	(R1-050310)		Revised in R1-050519
R1-050434	25.212CR216(Rel-6,F) on determination of SF and number of PhCHs considering SF2	Samsung	7.2		10/05/2005	Agreed
R1-050435	25.212CR217(Rel-6,F) on introduction of happy bit	Samsung	7.2			Withdrawn
R1-050436	Set of draft CRs on Coding for E-AGCH	Samsung, Siemens	7.2		10/05/2005	Agreed. One of them will be presented for approval at next RAN plenary, depending on decision in RAN2. A CR number was assigned in R1-050543.
R1-050437	25.214CR381(Rel-6,F) on DPCCH gain factor with no DPDCH configured	Samsung	7.2			Revised in R1-050536
R1-050438	Downlink Multiple Access and Multiplexing for Evolved UTRA	Samsung	13.2		12/05/2005	Noted
R1-050439	Uplink Multiple Access and Multiplexing for Evolved UTRA	Samsung	13.2		11/05/2005	Noted
R1-050440	25.214CR382(Rel-6, F) "Compressed mode operation for Enhanced Uplink"	Siemens, Philips	7.2			Revised in R1-050528
R1-050441	Signalling S-CCPCH/CPICH power ratio for MBMS	Siemens	6.5		09/05/2005	Noted
R1-050442	Key Aspects for Initial Assessment of LTE Multiple Access Concepts in RAN1	Philips	13.1		11/05/2005	Noted
R1-050443	System Assumptions and Evaluation for EUTRA	Motorola	13.1		11/05/2005	Noted and revised in R1-050558 with inclusion of the agreed prioritized cases.
R1-050444	25.214CR354r4(Rel6, C)"Timing Maintained Hard Handover"	Ericsson	6.4	(R1-050201)	09/05/2005	Agreed

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R1-050995

NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050445	25.214CR355r3(Rel6, B)"Fast L1 DCH synchronization"	Ericsson, Nokia	6.4	(R1-050173)	09/05/2005	Revised in R1-050529
R1-050446	Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.214 on Feature Clean Up: Removal of "SSDT"	Ericsson	6.3		09/05/2005	Agreed
R1-050447	Way forward on RRM measurements and targets for E-DCH	Ericsson	7.3		10/05/2005	Noted
R1-050448	Basic principles for the Evolved UTRA radio-access concept	Ericsson, Fujitsu, Motorola, Nokia, NTT DoCoMo, Panasonic, Siemens	13.2		11/05/2005	Noted
R1-050449	On the E-UTRA time-frequency granularity	Ericsson	13.2		11/05/2005	Noted
R1-050450	On pilots for E-UTRA	Ericsson	13.2		11/05/2005	Noted
R1-050451	On macro diversity for E-UTRA	Ericsson	13.2			Revised in R1-050533
R1-050452	Multiple Access for E-UTRA	NEC Group	13.2		11/05/2005	Noted
R1-050453	TR25.809 v0.1.1	IPWireless	12		10/05/2005	Endorsed to v.0.2.0 in R1-050554.
R1-050454	TS25.202 v0.0.1	IPWireless	12		10/05/2005	Endorsed to v.0.1.0 in R1-050555.
R1-050455	Services offered to higher layers by 7.68Mcps TDD option	IPWireless	12		10/05/2005	Agreed for inclusion into TS 25.202 and TR 25.809
R1-050456	Spreading factors and burst types for 7.68Mcps TDD option	IPWireless	12		10/05/2005	Revised in R1-050556 in order to resolve the contradictory text.
R1-050457	Uplink Signalling Architecture for 3.84Mcps TDD Enhanced Uplink	IPWireless	11		10/05/2005	Noted
R1-050458	Text Proposal for TR 25.826 (Uplink Signalling Aspects)	IPWireless	11		10/05/2005	Agreed to be include in TR
R1-050459	Uplink Multiple Access for EUTRA	InterDigital	13.2			Withdrawn
R1-050460	Text Proposal for TR 25.826 (Physical Channel Structure for Data)	IPWireless	11		10/05/2005	Agreed to be include in TR
R1-050461	Text Proposal for TR 25.826 (Support for Node-B Scheduling)	IPWireless	11		10/05/2005	Agreed to be include in TR
R1-050462	Downlink Multiple Access for EUTRA	InterDigital	13.2			Withdrawn
R1-050463	EUTRA Macro Diversity for Downlink and Uplink	ZTE	13.2		12/05/2005	Noted
R1-050464	Physical Channel Structures for Evolved UTRA	NTT DoCoMo	13.2		11/05/2005	Noted

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050465	25.213CR080(Rel-6,F)"Correction to uplink short scrambling code polynomial"	Qualcomm Europe	6.4		10/05/2005	Noted
R1-050466	25.212CR214r1(Rel-6,F)"Clarification on E-DPCCH bit mapping"	Qualcomm Europe, Samsung	7.2		10/05/2005	This CR was agreed to be merged into R1-050540.
R1-050467	Solutions to DCCH performance degradation in HSDPA A-DPCH	NTT DoCoMo	6.5		09/05/2005	Noted
R1-050468	Outer loop power control in case no DCHs are mapped to DPDCH	NTT DoCoMo	7.1		10/05/2005	Noted
R1-050469	DRAFT LS on correction of default parameters of UL:384kbps PS RAB	NTT DoCoMo	6.5		09/05/2005	Approved in R1-050551.
R1-050470	25.212CR217(Rel-6,F)&25.214CR385(Rel-6,F)"MBMS related corrections"	NEC	6.4		09/05/2005	CR on TS25.212 was revised (concerns on change on fixed pos) in R1-050530. CR on TS25.214 on is conflicting with R1-050492.
R1-050471	Clarification of UE procedure when reporting PRE	NEC	6.4		09/05/2005	Noted
R1-050472	S-CCPCH Power Offset Signalling for MBMS	Panasonic	6.4		09/05/2005	Noted
R1-050473	Measurements for downlink resource control in HSUPA	LG Electronics	7.3		10/05/2005	Noted. Preferred approach is option 1 and it was decided to express this as RAN1 view in the LS (R1-050552), mention that error analysis is to be done in RAN1.
R1-050474	Inter-cell synchronization of downlink transmission	LG Electronics	13.2		12/05/2005	Noted
R1-050475	PAPR comparison of uplink MA schemes	LG Electronics	13.2		12/05/2005	Noted
R1-050476	Evolved UTRA uplink scheduling and frequency reuse	Siemens	13.2		11/05/2005	Noted
R1-050477	Draft LS to RAN2 on the Introduction of Streaming RABs over HSDPA	Siemens, T-mobile	5		09/05/2005	Approved in R1-050512.
R1-050478	Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.214 on Feature Clean Up: Removal of TX diversity closed loop mode 2	Siemens	6.3		09/05/2005	The CRs on TS25.211 were agreed. The CRs on TS25.214 was revised in R1-050523
R1-050479	Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.212& 25.214&25.215 on Feature Clean Up: Removal of Compressed mode by puncturing	Siemens	6.3		09/05/2005	CRs on TS25.211, 25.214 and 25.215 was agreed. CRs on TS25.212 was revised in R1-050525.

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R1-050995

NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050480	Downlink Multiple Access Scheme for Evolved UTRA	SHRCWC	13.2		12/05/2005	Noted
R1-050481	Uplink Multiple Access Scheme for Evolved UTRA	SHRCWC	13.2		11/05/2005	Noted
R1-050482	Evaluation parameters for Evolved UTRA	SHRCWC	13.1			Withdrawn
R1-050483	Details of bit mapping for E-DCH retransmissions in compressed frames	Philips	7.2		10/05/2005	Noted. There was no agreement on this document.
R1-050484	Proposal for the Downlink Multiple Access Scheme for E-UTRA (Update)	Nortel	13.2	(R1-050267)	12/05/2005	Noted
R1-050485	Proposal for the Uplink Multiple Access Scheme for E-UTRA (Update)	Nortel	13.2	(R1-050266)	11/05/2005	Noted
R1-050486	Text proposal for the Technical report on the Downlink multiple access proposal	Nortel	13.2		12/05/2005	Noted
R1-050487	PAPR Issues and its reduction technique	Nortel	13.2		12/05/2005	Noted
R1-050488	Discussion of the link level interface for MIMO system level simulation	Nortel	13.1		11/05/2005	Noted
R1-050489	On gain factor quantization	Lucent Technologies	7.1		10/05/2005	Noted
R1-050490	25.212CR219(Rel-6,F)"Re-ordering of the E-DPCCH bit mapping"	Lucent Technologies	7.2			Withdrawn
R1-050491	Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211& 25.214 on Feature Clean Up: Removal of dedicated pilot as sole phase reference	Motorola	6.3		09/05/2005	CRs on TS25.211 were agreed. The CRs on TS25.214 were revised on R1-050526.
R1-050492	25.214CR392(Rel-6,F)"Removal of MBMS Rake Combining"	Motorola	6.4		09/05/2005	Revised in R1-050531.
R1-050493	Draft CR 25.211(Rel-6,F)"Phase reference for MBMS soft combining while receiving DPCH"	Motorola	6.4		09/05/2005	Revised in R1-050534.
R1-050494	E-UTRA simulation setup considerations	TeliaSonera	13.1		11/05/2005	Noted
R1-050495	Way forward with RRM measurements	Nokia, NEC	7.3		10/05/2005	Noted
R1-050496	LS on verification of parameters for proposed HSDPA Streaming RABs in 34.108 (To: RAN1, RAN2)	WG RAN5 (Lucent)	5		09/05/2005	Noted. Draft LS reply in R1-050513
R1-050497	Link level performance of SC-HSDPA beyond enhanced receiver type 2	Qualcomm Europe	13.2		12/05/2005	Noted

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050498	System level performance of MC-HSDPA with enhanced receiver and multiple Rx antennas - Full buffer	Qualcomm Europe	13.2		12/05/2005	Noted
R1-050499	System level performance of MC-HSDPA with enhanced receiver and multiple Rx antennas - Traffic models	Qualcomm Europe	13.2		12/05/2005	Noted
R1-050500	Uplink Capacity with Advanced Receivers and Multiple Rx Antennas	Qualcomm Europe	13.2		11/05/2005	Noted
R1-050501	System level performance of EUL with enhanced receiver and multiple Rx antennas - Full buffer	Qualcomm Europe	13.2		11/05/2005	Noted
R1-050502	Comment on measurements for EUDCH-RRM	NEC	7.3			Withdrawn
R1-050503	Evaluation of Multiple Access for EUTRA	InterDigital	13.1			Withdrawn
R1-050504	Set of CRs (Rel-5, C) and (Rel-6, C) to 25.201&25.211&25.212&25.213&25.214&25.215 on Feature Clean Up: Removal of CPCH	Motorola	6.3		09/05/2005	CRs on TS.25.201 and 25.215 was agreed. CRs on TS25.211, 25.212, 25.213and 25.214 were revised in R1-050559.
R1-050505	25.212CR219(Rel-6,F)"Re-ordering of the E-DPCCH bit mapping"	Lucent Technologies	7.2		10/05/2005	Agreed
R1-050506	Comments on basic principles for the Evolved UTRA radio-access concept	Philips	13.2		12/05/2005	Noted
R1-050507	Soft Frequency Reuse Scheme for UTRAN LTE	Huawei	13.2		12/05/2005	Noted
R1-050508	25.213CR074r1(Rel-6, F)"Power Offset values for E-DPDCH/E-DPCCH"	Samsung, Qualcomm	7.2	(R1-050305)	10/05/2005	Revised in R1-050537.
R1-050509	Correction of Rate Matching Parameters for E-DCH	Siemens	7.2	(R1-050399)	10/05/2005	Noted. There was no agreement on this modification.
R1-050510	Draft reply LS on R1-050378	Motorola	5		09/05/2005	Withdrawn
R1-050511	DRAFT Response LS to ITU-R Ad Hoc	TIM	5		10/05/2005	Approved in R1-050535
R1-050512	LS on the Introduction of Streaming RABs over HSDPA	WG RAN1	5		09/05/2005	Approved version
R1-050513	[DRAFT] Reply LS on verification of parameters for proposed HSDPA Streaming RABs	Lucent Technologies	5		13/05/2005	Approved I R1-050566

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050514	25.224CR142r1(Rel4, F)CR143r1(Rel5, A)CR144r1(Rel6, A) "Clarification of UpPCH Sub-channel for 1.28 Mcps TDD "	ZTE, CCSA	6.2	(R1-050410)	13/05/2005	Revised in R1-050567
R1-050515	25.221CR122r1(Rel4, F)CR123r1(Rel5, A)CR124r1(Rel6, A) "Correction to Transmission of SS for 1.28 Mcps TDD"	ZTE, CCSA	6.2	(R1-050411)	13/05/2005	Agreed
R1-050516	25.221CR127r1(Rel6, F) "Correction to the examples of the association of UL SS commands to UL uplink time slots"	ZTE, CCSA	6.2	(R1-050412)	13/05/2005	Agreed
R1-050517	25.221CR128r1(Rel4, F)CR129r1(Rel5, A)CR130r1(Rel6, A) "Correction to transmission of TPC for 1.28 Mcps TDD"	ZTE, CCSA	6.2	(R1-050413)	13/05/2005	Agreed
R1-050518	25.221CR133r1(Rel6, F) "Correction to the examples of the association of UL TPC commands to UL uplink time slot and CCTrCH pairs"	ZTE, CCSA	6.2	(R1-050414)	13/05/2005	Agreed
R1-050519	25.214CR363r3(Rel-6,F) on power control at the maximum power limit	Samsung, NEC, Nokia, Panasonic, Philips, Qualcomm Europe	7.2	(R1-050433)	10/05/2005	Revised in R1-050565.
R1-050520	EUTRA Downlink Numerology and Frame Structure	Motorola	13.2	(R1-050396)	12/05/2005	Noted
R1-050521	25.214CR393(Rel-5, F)CR394(Rel-6,A)"HS-DPCCH trasmission on discarding HS-SCCH"	Philips, NEC	6.4		09/05/2005	Revised in R1-050532
R1-050522	25.212CR211r1(Rel-5,C)CR212r1(Rel-6,C)"Feature Clean-Up: Removal of 80 ms TTI for DCH for all other cases but when the UE supports SF512"	Nokia	6.3	(R1-050416)	13/05/2005	Agreed.
R1-050523	Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.214 on Feature Clean Up: Removal of TX diversity closed loop mode 2	Siemens	6.3	(R1-050478)	13/05/2005	Agreed
R1-050524	Void				09/05/2005	

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R1-050995

NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050525	Set of CRs (Rel-5,C) and (Rel-6,C) to 25.211&25.212& 25.214&25.215 on Feature Clean Up: Removal of Compressed mode by puncturing	Siemens	6.3	(R1-050479)	13/05/2005	Agreed
R1-050526	25.214CR390r1(Rel-5, C) CR391r1(Rel-6, C)on Feature Clean Up: Removal of dedicated pilot as sole phase reference	Motorola	6.3	(R1-050491)	13/05/2005	Agreed
R1-050527	Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.214 on Feature Clean Up: Removal of CPCH	Motorola	6.3	(R1-050504)	09/05/2005	Withdrawn
R1-050528	25.214CR382r1(Rel-6, F) "Compressed mode operation for Enhanced Uplink"	Siemens, Philips	7.2	(R1-050440)	10/05/2005	Agreed in principle, and revised in R1-050542.
R1-050529	25.214CR355r4(Rel6, B)"Fast L1 DCH synchronization"	Ericsson, Nokia	6.4	(R1-050445)	13/05/2005	Agreed
R1-050530	25.212CR217r1(Rel-6,F)"MBMS related corrections"	NEC	6.4	(R1-050470)	13/05/2005	Agreed
R1-050531	25.214CR392r1(Rel-6,F)"Removal of MBMS Rake Combining"	Motorola	6.4	(R1-050492)	13/05/2005	Agreed
R1-050532	25.214CR393r1(Rel-5, F)CR394r1(Rel-6,F)"HS-DPCCH trasmission on discarding HS-SCCH"	Philips, NEC	6.4	(R1-050521)	13/05/2005	Agreed
R1-050533	On macro diversity for E-UTRA	Ericsson	13.2	(R1-050451)	12/05/2005	Noted
R1-050534	Draft CR 25.211(Rel-6,F)"Phase reference for MBMS soft combining while receiving DPCH"	Motorola	6.4	(R1-050493)	09/05/2005	This document was withdrawn because it was captured in R1-050545.
R1-050535	Response LS to ITU-R Ad Hoc	Telecom ITALIA	5		10/05/2005	Approved version
R1-050536	25.214CR381r1(Rel-6,F) on DPCCH gain factor with no DPDCH configured	Samsung, Ericsson, Siemens	7.2	(R1-050437)	10/05/2005	Agreed
R1-050537	25.213CR074r2(Rel-6, F)"Power Offset values for E-DPDCH/E-DPCCH"	Samsung, Qualcomm Europe, Lucent	7.2	(R1-050508)	13/05/2005	Agreed
R1-050538	[DRAFT] LS on periodic transmission for EUL outer loop power control	NTT DoCoMo	7.1		13/05/2005	Approved in R1-050569 with some revision
R1-050539	Draft Reply LS on S-CCPCH power offset signalling for MBMS	Siemens	5		11/05/2005	Revised in R1-050560

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R1-050540	25.212CR204r2(Rel6, F)"E-DCH Corrections"	Siemens, Samsung, Qualcomm Europe	7.2	(R1-050398)	13/05/2005	Agreed
R1-050541	25.212CR205r1(Rel6, F)"Compressed Mode Operation for Enhanced Uplink"	Siemens, Ericsson, Nokia, Nortel, Philips, Qualcomm Europe	7.2	(R1-050400)	13/05/2005	Noted
R1-050542	25.214CR382r2(Rel-6, F) "Compressed mode operation for Enhanced Uplink"	Siemens, Philips	7.2	(R1-050528)	13/05/2005	Agreed
R1-050543	Set of CR to 25.212 on coding for E-AGCH.	Samsung, Siemens	7.2	(R1-050436)	13/05/2005	Agreed
R1-050544	25.211CR210r1(Rel-6,F)"Clarification on EACGH transmission interval"	Qualcomm Europe	7.2	(R1-050425)	13/05/2005	Agreed
R1-050545	25.211CR211r1(Rel-6,F)"Clarification on phase reference for downlink channels"	Qualcomm Europe	7.2	(R1-050426)	13/05/2005	Revised in R1-050570
R1-050546	25.211CR212r1(Rel-6,F)"Clarification on E-DCH timing"	Qualcomm Europe	7.2	(R1-050427)	13/05/2005	Agreed
R1-050547	25.214CR380r1(Rel-6,F)"Clarification on E-DCH timing"	Qualcomm Europe	7.2	(R1-050430)	13/05/2005	Revised in R1-050572
R1-050548	Set of CRs (Rel-5,C) and (Rel-6, C) to 25.211&25.212&25.213&25.214 on Feature Clean Up: Removal of DSCH (FDD mode)	LG Electronics	6.3	(R1-050389)	13/05/2005	Agreed
R1-050549	25.213CR075r3(Rel-6,F) on support of different HARQ profiles	Samsung, LG Electronics, Philips	7.2	(R1-050431)	13/05/2005	Agreed
R1-050550	25.214CR372r4(Rel-6,F) on support of different HARQ profiles	Samsung, LG Electronics, Philips	7.2	(R1-050432)	13/05/2005	Agreed
R1-050551	LS on correction of default parameters of UL:384kbps PS RAB	WG RAN1	6.5		09/05/2005	Approved version
R1-050552	Draft LS on E-DCH RRM measurements	Ericsson	7.3		11/05/2005	Approved in R1-050557
R1-050553	Draft LS on Introduction of PLCCH for 1.28Mcpes TDD	UTStarcom and IPWireless	40		09/05/2005	Withdrawn
R1-050554	TR25.809 v0.2.0	IPWireless	12			Approved version
R1-050555	TR25.202 v0.1.0	IPWireless	12			Approved version

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NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050556	Spreading factors and burst types for 7.68Mcps TDD option	IPWireless	12	(R1-050456)	13/05/2005	Agreed the inclusion into TR.
R1-050557	LS on E-DCH RRM measurements	WG RAN1	7.3	(R1-050552)	11/05/2005	Approved version
R1-050558	System Assumptions and Evaluation for EUTRA	Motorola, Nokia, Samsung	13.1	(R1-050443)	12/05/2005	Endorsed.
R1-050559	Set of CRs (Rel-5,C) and (Rel-6, C) to 25.201&25.211&25.212&25.213&25.214&25.215 on Feature Clean Up: Removal of CPCH	Motorola	6.3	(R1-050504)	13/05/2005	CR of 24.213 Rel6 was revised in R1-050568
R1-050560	Draft Reply LS on S-CCPCH power offset signalling for MBMS	Siemens, Motorola	5	(R1-050539)	11/05/2005	Approved in R1-050561
R1-050561	Reply LS on S-CCPCH power offset signalling for MBMS	WG RAN1	5		11/05/2005	Approved version
R1-050562	[DRAFT] Reply LS on Outer-loop TPC behaviour in 0 bit TB reception for A-DPCH	NTT DoCoMo	6.5		12/05/2005	Approved in R1-050563 with some modification
R1-050563	Reply LS on Outer-loop TPC behaviour in 0 bit TB reception for A-DPCH	WG RAN1	6.5		13/05/2005	Approved version
R1-050564	LS on Radio link failure criteria on Fractional DPCH (To:RAN2, Cc:RAN1,RAN4)	WG RAN3	5		13/05/2005	Noted.
R1-050565	25.214CR363r4(Rel-6,F) on power control at the maximum power limit	Samsung, NEC, Nokia, Panasonic, Philips, Qualcomm Europe	7.2	(R1-050519)	13/05/2005	Agreed on the RAN1 reflector at 20 th of May
R1-050566	Reply LS on verification of parameters for proposed HSDPA Streaming RABs in 34.108	WG RAN1	5		13/05/2005	Approved version
R1-050567	25.224CR144r2(Rel6, F) "Clarification of UpPCH Sub-channel for 1.28 Mcps TDD "	ZTE/CCSA	6.2	(R1-050514)	13/05/2005	Agreed.
R1-050568	Set of CRs (Rel-5,C) and (Rel-6, C) to 25.201&25.211&25.212&25.213&25.214&25.215 on Feature Clean Up: Removal of CPCH	Motorola	6.3	(R1-050559)	13/05/2005	Agreed
R1-050569	LS on periodic transmission for EUL outer loop power control	WG RAN1	7.1		13/05/2005	Approved version

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R1-050995

NUMBER	TITLE	SOURCE	AGENDA ITEM	REVISED BY (From)	Treated Date (CET)	Conclusion/decision
R1-050570	25.211CR211r2(Rel-6,F)"Clarification on phase reference for downlink channels"	Qualcomm Europe	7.2	(R1-050545)		Agreed on the RAN1 reflector at 23 rd of May
R1-050571	Draft LS on Introduction of PLCCH for 1.28Mcps TDD	UTStarcom and IPWireless	10		13/05/2005	Approved in R1-050573.
R1-050572	25.214CR380r2(Rel-6,F)"Clarification on E-DCH timing"	Qualcomm Europe	7.2	(R1-050547)		Revised in R1-050576
R1-050573	LS on Introduction of PLCCH for 1.28Mcps TDD	WG RAN1	10		13/05/2005	Approved version
R1-050574	Approved report from RAN1#40bis	RAN1 Secretary	3			Approved version
R1-050575	25.214CR378r1(Rel-6,F)"F-DPCH Downlink Power Control Behaviour in SHO"	Nokia	6.4	(R1-050419)		Agreed on the RAN1 reflector after the meeting
R1-050576	25.214CR380r3(Rel-6,F)"Clarification on E-DCH timing"	Qualcomm Europe	7.2	(R1-050572)		Agreed on the RAN1 reflector after the meeting

Annex F: List of actions

- Regarding 25.214CR378(Rel-6,F)"F-DPCH Downlink Power Control Behaviour in SHO"(R1-050419), continue discussion via email reflector until RAN plenary with target to reach agreement.
- Regarding 25.211CR211r1(Rel-6,F)"Clarification on phase reference for downlink channels", Agreement via e-mail reflector by Friday 20th 6pm CET. Revision Tdoc number is R1-050570.
- Regarding 25.214CR380r1(Rel-6,F)"Clarification on E-DCH timing", Agreement via e-mail reflector by 20th May 6:00 CET. Discussion on update and on relaxing UE timing for non-serving cell E-RGCH in R1-050572.
- Regarding 25.214CR363r4(Rel-6,F) on power control at the maximum power limit (R1-050565), Agreement via e-mail reflector by Friday 20th 6pm CET