

# Mueller Exhibit 15

**TSG-RAN Working Group 1 meeting #8  
New York, U.S.A.  
October 24 – October 15, 1999**

***TSGR1#8(99)g43***

**Agenda Item:** -

**Source:** Secretary

**Title:** Revised minutes (rev. of R1-99f13)

**Document for:**

---

**Revised Minutes for 3GPP RAN-TSG 7<sup>th</sup> WG1 Meeting**

Meeting start: August 30th

Day 1, start 9.00

**1. Opening of the meeting**

The chairman, Mr. Antti Toskala(Nokia), opened the meeting.

**2. Approval of agenda (Tdoc b07)**

Agend item3(Assignment of secretary) was deleted because the new secretary was assigned by 3GPP secretariat. The schedule of Day2 Ad Hoc session was slightly modified. Ad Hoc1 and Ad Hoc8 were exchanged. Approved as amended.

**4.Approval of the minutes of the last meeting. (Tdoc a65)**

The minutes were approved without modifications.

**5. Approval of the changes done by the editors to 25.2 documents based on the results of WG1 No.6**

TS	Discussed		Changes / Comments	Approved	
	Ver.	Tdoc		Ver.	Tdoc
25.201	2.1.1	a67	Chip Rate 4.096 to 3.84 Slot Structure 16 to 15 Status 102 to TR R102 Reorganization of Sec. 5 Editorial Changes	2.2.0	c68
25.211	2.2.1	a71	Text proposal approved in the 6 <sup>th</sup> meeting. Small editorial changes Sec. 6.1.1.2 Note 1 will be removed.	2.3.0	c69
25.212	2.0.1	a86	Text proposals approved in the 6 <sup>th</sup> meeting. Annex B should be informative. 2 <sup>nd</sup> paragraph of 4.2.6.2 should be recovered.	2.1.0	c70
25.213	2.1.2	a66	Text proposals 783, 880, 806, 921, 923, 932, a94 One editorial comment on Sec. 4.3.1 (Table)	2.2.0	c71
25.214	1.1.2	b52	5 text proposals concerning - Random Access Procedure - SSDT - Slow Transmit Power Control - Feedback Mode Transmit Diversity - Power Control Modification of Annex	1.2.0	c72
25.221	1.2.1	a25	Updated in WG2 meeting / No comments received.	1.3.0	c73
25.222	2.0.2	a89		2.1.0	c74
25.223	2.1.2	a75	No comments received.	2.2.0	c75
25.224	1.0.1	a68	No comments received.	1.1.0	d27
25.231	0.3.1	a70	Discuss again later (some part might be missing)	0.3.2	c77
TR1.03	0.0.1	b067	4.2 The first box should be removed. (*)	0.0.1	d64

(\*) Tdoc b06 “TR R1.03 V0.0.1”

Mr. Kowalewski(Bosch) explained the document.

The scope of this document was discussed.

The chairman comment;

In general it should contain the items which are not included in release99 specifications but we might as well (if we agree) include the certain topics that are expected in next year, for example Hybrid ARQ. It might help us to proceed.

On the Hybrid ARQ it was agreed that it should be mentioned but no further details should be covered as there is no earlier approved text on Hybrid ARQ

## 6. Identification of the incoming/ liaison statements

From	Tdoc	Title	Forwarded to	Notes
T1 SWG EMC	b78	DPCCH gating issues	Ad Hoc14	
WG2	c12	Timing Advanced for TDD	Ad Hoc1	
	c13	USCH requirement for TDD	Ad Hoc1	
	c39	Power control	Ad Hoc 9	
	c40	Length of SFN	Ad Hoc 4	
	c41	25.302	Plenary Ad Hoc 3 Ad Hoc 4 Ad Hoc 5	point1 (AdHoc3) point2 & 3 (AdHoc4) point3 (AdHoc5)
	c42	Slow transmit power control	Ad Hoc 9	
	c43	Power control issues	Ad Hoc 9	
	c44	Status of the work on RACH model	Ad Hoc 3	
	c45	Paging occasions	Plenary	(*1)
WG3	c63	TDD Synchronization method	Ad Hoc1	
WG4	a90	DPCCH gating	Ad Hoc14	
	a91	Link level simulation (Information)	Plenary	(*2)
	a92	Measurement	Ad Hoc 16	
	a93	Power control	Ad Hoc 9	

There are some other LSs

(\*1) The chairman asked Mr. Fredrik Ovesjo (Ericsson) to make the explanatory materials on paging occasions and to propose the answer and the clarification of the topic.

(\*2) The role of WG1 in the link level simulation was discussed .  
Chairman concluded as follows.

To perform link level simulation, some certain assumptions must be needed. It is definitely up to WG4 to pick up the cases and assumptions in the simulation. Our role is to define the means which are available, how things can be done.

As to the speech codec, we are supposed to provide the slot structure that can be used to carry that information or any higher layer information. It is not relevant for any of our specifications to define the practical speech codec. It's probably our way to have a look at whether WG4 assumptions are sensible or not. If they pick up some improper assumptions, then we should make a comment.

## **7. Ad Hoc Reports from WG1 No.6 not yet presented**

Tdoc a13 "Report on Ad Hoc 5 Meeting of 15-16 July 1999" Approved.

(Tdoc 805 and a31 are still valid text proposals and both are needed to be considered.)

It was pointed out that the inclusion of possible examples as annex should be handled why Nortel is looking into details about this to be added.

(The annex mapping issue should be dealt in Ad Hoc4)

As to the text proposal in a61, a55, there was no agreement in the AdHoc itself.

Tdoc a06 "Report from Ad Hoc 12" , Mr.Nakamura, NTT DoCoMo explained the document. Further discussion will take place in the the week meeting.

Tdoc a43 "AdHoc#14 Meeting Summary"

- Text proposal concerning gating DPCCH is Tdoc c81 (old version is b51)

The chairman suggested the 2 liaison statements on gating issue should be the first issue from Ad Hoc14.

## **8. Text proposals agreed in the Ad Hoc Reports agreed in the Ad Hoc meetings in the last meeting**

Tdoc 805 approved.

Tdoc a31 further discussion will be made in the week meeting.

## **9. Reoport from the harmonization Ad Hoc(Ad Hoc15) e-mail discussion on the remaining topics.**

The chairman made the presentation about the summary of Ad Hoc 15 e-mail discussion.

- discussions on common pilot ( mainly on the common pilot modulation for Tx )

## **10. OHG Harmonization agreement related inputs & text proposals**

Tdoc c29 "Optimized 2<sup>nd</sup> Interleaver for High Speed Fading" (Nortel)

Nortel proposed the new channel interleaver.

The chairman asked how many errors occurred in the case of  $BER = 10^{-5}$ .

Mr.Okamura(NTT DoCoMo) asked the meaning of the FER greater than 1 when

$E_b/N_0 < 3dB$ .

The chairman proposed that the proponents should be discussed provide clarifications during the week, otherwise the current solution will remain. No new material was provided during the week on the issue thus the existing interleaver remains.-(until Thursday)

Tdoc c22 “Text proposal for Modification of TS25.231 for TDD According to OHG Harmonization Agreement” (Siemens)

Editorial change was made in 7.1.5.4.2.2 concerning 15 time slot.

Comment:

1 time slot should be expressed in chips instead of in microseconds. (It can not be an integer in microseconds.)

Changes were agreed as amended.

Tdoc d62 “Text proposal on handover preparation from TDD to GSM”  
Approved. (discussed in the Day 5)

*Appended on Oct. 12, '99*

Tdoc b48 “Proposal for new slot structure of 30 ksps DL DPCH” (NTT DoCoMo)  
Accepted without objections.

Tdoc b50 “Proposal to delete lower chip rate” (NTT DoCoMo)  
“1.024Mcps” instead of “lower chip rate” should be removed from release 99 FDD.  
Ericsson requested the removal of 8Mcpc and 16Mcpc options from release 99 specifications. The chairman proposed that lower and higher chip rates options would be uploaded on the list which are not for release 99 and presented in RAN.  
The document was approved.

Tdoc b34 “Update of FAUSCH scheme and text proposal MODIFIED FOR 15 SLOTS)”  
Mr. Mouldsley (Philips) explained the document.

Tdoc c32 “Proposal for a DL slot structure to support EVRC vocoder”

Chairman’s comment ;

“S4 mentioned that for release 99 they had not discussed about any other voice codec than AMR.

In general for release 99 UTRAN, the AMR would be the one which will be used by the speech terminals as mandatory speech codec. I don’t think that EVRC would be anyway addressed by the higher layer protocols in UTRAN for release 99.”

Chairman’s comment;

We should consider what is the efficient way of supporting 8kbps service, not EVRC but just a service. The reason why EVRC has been the interest in the harmonisation process is just because it happened to be fitting the 8kbps(roughly) service. From WG1 perspective if we approve the slot structures, we do not make any new decisions in terms of how the signalling is transmitted, etc. We introduce the alternative ways to realise this 8kbps service. The different network conditions will definitely require the different kind of optimisations. We should not go into too much details for what sort of the EVRC or AMR at this moment. This year we just add the hbook what enables us to fulfil the efficient support of 8kbps service.

The slot structures in the document was approved.

Chairman made a small explanation about the “Hooks and Extensions Workshop”

There was very little WG1 directly relevant issues.

Main topic was that of the handover. Most topics are concerning to WG2 matters.

**( Ad Hocs sessions were held in the evening. )**

**( Ad Hoc 6 & Ad Hoc 9 )**

- 11 . First Ad Hocs session 8:30 – 12:30 (Day 2)**  
**Ad Hoc 1 & Ad Hoc 3**
- 12. Second Ad Hocs session 13:30 – 17:00 (Day 2)**  
**Ad Hoc 5 & Ad Hoc 8**
- 13. Third Ad Hocs session 19:30 – 22:30 (Day 2)**  
**Ad Hoc 10 & Ad Hoc 16**
- 14. Fourth Ad Hocs session 8:30 – 12:30 (Day 3)**  
**Ad Hoc 1 & Ad Hoc 17**

Day 3 & Day 4 (Sep.1 & Sep.2)

**15. Reports from the Ad Hocs from Day1 & 2 ( including agenda item 20)**

Ad Hoc	Tdoc	Title	Presented by	Conclusion	Notes
6	b12	Ad Hoc #6 report to RAN WG1 #7	Mr. Pehkonen	Approved	No comments
9	d34	Ad-hoc 9 report (FDD Power control)	Ms. Le Strat	Approved	(*1) (*)
3	d19	Report of the Ad Hoc 3 meeting	Mr. Nakamura	Approved	R1-99xxx in Sec. 2.6 should be R1-99d07.
8	c80	Ad hoc 8 report	Mr. Rudolf	Approved	(*2)
1	d24	Report from Ad Hoc #1: TDD, part 1	Ms. Klein	Approved	(*3)
	d25	Report from Ad Hoc #1: TDD, part 2	Ms. Klein	Approved	(*4)
5	d46	Report from Ad Hoc 5	Mr. Hughes	Approved	(*5)
16	c96	Ad hoc #16 report	Mr. Ovesjo	Approved	
10	d29	Ad hoc #10 report	Mr.Kato	Approved	(*6)
17	b18	Adhoc 17 report to RAN WG1#7	Mr. Wilde	Approved	(*7)
4	d59	Ad hoc #4 report	Mr. Ovesjo	Approved	No comments
14	d74	Ad-Hoc 14 meeting report	Mr. Parsa	Approved	No comments
12	d61	Report of the Ad Hoc 12 meeting	Mr. Nakamura	Approved	No comments

(\*1) A question was made by Mr. Dick. Though in the slide 5, the BER & FER are considered to be used as the reference of power control, in TDD mode BER&FER was denied to be used as reference. The chairman suggested that this issue should be referred to Ad Hoc 16 (Measurement). (Uplink power control in soft handover was not discussed yet.)

(\*2) Open items

- Compressed mode during soft handover
- Tx-diversity and compressed mod
- Frame structure of uplink compressed mode
- Application of compressed mode for interleaving depths other than 10 ms  
( These will be discussed in Sep.2 answering RAN chairman's request. )

(\*3) 2.2 Conclusion of "Tdoc B70/99 "Definition of TPC Bits in TDD", Siemens AG"  
"Ad hoc 1 recommends to agree on the text proposal given in Tdoc A70/99." should be replaced by  
"Ad hoc 1 recommends to agree on the text proposal given in Tdoc B70/99.

(\*4) For future reference, if needed, TI can provide the figure presented in the meeting in Tdoc e27.

(\*5) The liaison statement is B04 instead of B02.

- (\*6) - As to the section 2.4, more discussion is needed and the contribution should be made by Ad Hoc 10. This issue should be left for further discussion.
- Section 2.3 should be discussed more.
  - Text proposal is needed for the issue of the section 2.6.
  - As to the approval of the specification in RAN when something is in the state of working assumption;
- (TSG-RAN chairman's comment )  
 Generally it depends on whether it is essential or not to the system operation. If there is a essential thing for the system operation it should not be working assumption. It should be complete agreement. In case of non-essential subject, generally speaking, it is rather difficult to approve the working assumption in TSG-RAN level. It is better for WG to decide whether it is agreed result in WG1 or not to be included in release 99.
- (\*7) TSG-RAN chairman requested WG1 to make a workplan for the location service during this meeting.  
 (In the last SA, it was agreed to have the location service as the work item for release 99.)

## 16. Text proposals agreed in Ad Hocs (including agent item 21)

### 16.1 Ad Hoc 6

Tdoc	Title	Conclusion	Notes
b12	Text proposal for PICH	Approved	No comments
c85	Text proposal for Tx Diversity for DCH	Approved	No comments
c17	SSDT specification update (TS25.214)	Approved	No comments
d06	Text proposal for closed loop modes 1 and 2	Approved	(*1)
d52	Text proposal: STTD encoding for DTX(Revised)	Approved	Revision of d49 (*2)

(\*1) The readability of the figures should be improved. (Clarification might be needed.)

(\*2) This is for TS25.211

### 16.2 Ad Hoc 9

Tdoc	Title	Conclusion	Note
b80	Power limits for downlink power control	Approved	No comments
c98	T.P. for modification of downlink power control in soft handover in 25.214 and 25.211	Approved	rev. of b16 (*1)
d37	Proposal for change of change of 25.214 on power control	Approved	(*2)
d55	Text proposal for power control	Approved	revision of d21(b42) (*3)

(\*1) 5.2.3.2 The last sentence in the paragraph which begins with "if DPC\_MODE = 1" that is, "As a response, the UTRAN may adjust its transmit power only after receiving the three TPC commands." should be removed.

Appendix should be moved to 25.214 because it is directly related to power control.

(\*2) Approved including the changes regarding the evaluation of power offset as agreement

(\*3) b42 was covered by d21 and d21 was updated to d55. d55 was approved on Sep. 2.

The note < The use or otherwise of Algorithm 2 in soft handover is FFS. > was added in 5.1.2.2.3. d55 was approved with no comments.

### 16.3 Ad Hoc 3

Tdoc	Title	Conclusion	Note
b19	Text proposal for RACH channelization code allocation	Approved	No comments
a94	Text proposla for AICH Codewords	Approved	No comments
d41	Text proposal for RACH sub-channel definition	Approved	No comments
d07	Text proposal for Dynamic Persistence Part of the RACH Procedure	Approved	No comments
d20	Text proposal regarding power offset between preamble and message part of PRACH	Approved	(*1)
d10	Text proposal on RACH message scrambling	Approved	

(\*1) One comment on power offset

### 16.4 Ad Hoc 8

Tdoc	Title	Conclusion	Notes
d18	Text proposal for changes to TS 25.231	Approved	No comments
b14	Text proposal for Compressed Mode Parameters for GSM Search	Approved	No comments
c83	Text proposal for TS 25.212	Approved	No comments
c95	Use of multiple scrambling codes in compressed mode: text proposal	Approved	(*1)
b98	Compressed Mode for FDD-FDD Handover preparation	Approved	No comments
b99	Compressed mode function in multiplexing chain	Approved	No comments
c57	Simulation results for TG position and proposal	Approved	No comments
d62	Text proposal on handover preparation from TDD to GSM	Approved	No comments

- (\*1) - Section 5.2.1 “right spreading factor” should be replaced by “spreading factor  $SF/2$ ”  
 - The purpose of using multiple scrambling codes should be mentioned in the meeting minutes.

### 16.5 Ad Hoc 1

Tdoc	Title	Conclusion	Notes
a96	Text proposal for 25.224	Approved	No comments
b70	Definition of TPC bits in TDD mode	Approved	No comments
c64	Text proposal for TS25.224 Regarding Closed Loop PC in TDD mode	Approved	No comments
a79	Physical Layer Measurements in UTRA TDD mode	Approved	(*1)
d02	TDD - Physical Channel Definitions and mapping of Transport Channels onto CCTrCH in TS25.221 -revised	Approved	(*2)
b65	Common Channel Terminology in TDD Mode	Approved	No comments
c65	TFCI for Shared Channels in TDD Mode	Approved	No comments
b64	Additional Midambles for PRACH in TDD Mode	Approved	No comments
c93	Updated Downlink Shared Channel (DSCH) physical layer signalling with TDD	Approved	No comments
c09	Text proposal: Physical Channel Segmentation and 2 <sup>nd</sup> Interleaving for TDD	Approved	No comments
a99	TDD Cell Search and Text Proposals for 25.221, 25.223 and 25.224	Approved	No comments
d44	Text proposal for TS25.224: "Transmit diversity for SCH" -Revised Version -	Approved	No comments
c59	Operator requirements for UMTS TDD mode	Approved	(*3)
d80	Importance of TDD mode	Approved	(*3)

(\*1) Editing details will be seen later.

(\*2) 6.1 2) DPCH should be replaced by "physical channel"

(\*3) These are not text proposals and will be presented to the RAN plenary.

### 16.6 Ad Hoc 5

Tdoc	Title	Conclusion	Notes
b32	Transport block concatenation and code block segmentation	Approved	
d84	Text proposal for Turbo codes and rate matching in TS 25.212, TS 25.222 (rev. of R1-99d56)	Approved	(d56 was postponed.) (*1)

(\*1) Discussed in Day 5

It was pointed out that some editorial modifications should be made in 4.2.6.

### 16.7 Ad Hoc 16

Tdoc	Title	Conclusion	Notes
b22	Required UTRAN measurements in UTRA/FDD	Approved	No comments
b23	Required UE measurements in UTRA/FDD, revised	Approved	(*1)
b24	Additional required measurements in UTRA/FDD	Approved	(*2)
b25	Path delay measurement	Approved	(*3)
b26	Proposal for new measurement specification	Approved	<i>Appended on Oct.12, '99</i>
c97	Proposal for Restructuring the TDD Parts of the Measurement	Approved	<i>Appended on Oct.12, '99</i>

(\*1) Only tables in section 8 will be included to the new structure. The earlier part of the document will not be included. In 8.1.3, the row of CPICH should be removed including the note.

(\*2) - 8.1.8 Note should be removed.

- UTRAN transport channel BLER and physical channel BER should be measured after radio link combining in Node B. "in Node B" should be added.

- The definition of "Physical CH BER" should be slightly modified. See Ad Hoc 16 report. (c96)

(\*3) Some changes (modification of tables) are made. See Ad Hoc 16 report. (c96)

In that sense c96 should be approved as the text proposal and it was approved.

### 16.8 Ad Hoc 10

Tdoc	Title	Conclusion	Notes
b20	Uplink channelization code allocation in UTRA/FDD, revised	Approved	big discussion
a76	Text proposal for TS 25.211	Approved	(*1)
d83	Text proposal regarding Multiple Scrambling Codes (rev. of R1-99d51)	Approved	No comments
d78	Text Proposal for 25.213 on the maximal number of physical channels for one CCTrCH related with spreading factor on DL (Revision of d77)	Not Approved	Further discussion needed.
d79	Text Proposal for 25.213 for the conclusion of AH10	Partly approved	(*2)

(\*1) 5.2.1 "In general, the spreading factor may thus range from 256 down to 4." should be replaced by "DPDCH spreading factor may thus range from 256 down to 4."

(\*2) Ad Hoc 4 agreements should be reflected.

### 16.9 Ad Hoc 15

Tdoc	Title	Conclusion	Notes
d11	Text Proposal for new DL slot structures at spreading factor 256	Approved	No comments
d17	Common pilot pattern	Approved	(*1)
d81	Common pilot terminology clarification – a text proposal	Approved	(*2)
d91	Text proposal to fix the CPICH and P-CCPCH channelisation codes	Approved	

(\*1) The change to proposal 2 was agreed.

(\*2) 5.3.3.1 Primary Common Pilot Channel

“Assigned channelization code  $c_{256,0}$ ” should be replaced by “The same channelization code is always reserved for this channel”

### 16.10 Ad Hoc 17

Tdoc	Title	Conclusion	Notes
901	Text proposal for LCS	Approved	(Only Section 3)

### 16.11 Ad Hoc 4

Tdoc	Title	Conclusion	Notes
d23	Text proposal for new notation in 25.222	Approved	No comments
b47	Proposal to add 24 bit CRC polynomial	Approved	No comments
b11	Clarifying text proposal for TFCI repetition encoding	Approved	No comments
d38	Text proposal for blind rate detection with flexible positions	Approved	No comments
b33	TFCI mapping	Approved	No comments
d67	Revised Text proposal for DL rate matching signalling in FDD	Approved	No comments
d58	Revised text proposal for radio frame equalization, 1 <sup>st</sup> interleaving and radio frame segmentation	Approved	No comments
d76	Text proposal for 25.212 (revision of b29)	Approved	No comments
d75	Updated text proposal for restrictions on common channels	Approved	(*1)
d69	Text proposal regarding TFCI coding for FDD (rev. of R1-99b61)	Approved	(*2)
d70	Text proposal regarding TFCI coding for TDD (rev. of R1-99b62)	Approved	No comments
d87	Revised text proposal for radio frame equalization, 1 <sup>st</sup> interleaving and radio frame segmentation for TDD (25.222)	Approved	No comments

(\*1) Section 6.1 in TS 25.211 should be removed .

(\*2) The numbering of the channelization code should start from 0 to 15 instead of 1 to 16.

### 16.12 Ad Hoc 14

Tdoc	Title	Conclusion	Notes
d71	Proposed CPCH-related changes to 25.214	Approved	revision of a73
d94	Proposed CPCH-related insertions into 25.211	Approved	b93→d72→d94 No comments
d95	Proposed CPCH-related changes to 25.213	Approved	c66→d73→d95
a29	Proposed CPCH channel assignment related changes to 25.211	Approved	(*1)
c81	Text proposal for section 7 in 25.214 (rev. 3)	Approved	(*2)

(\*1) This should be applied to TS 25.213 instead of TS 25.211.

(\*2) 7.1 is Working assumption

### 16.13 Ad Hoc 12

Tdoc	Title	Conclusion	Notes
b21	Text proposal for new downlink scrambling code grouping scheme for UTRA/FDD	Approved	No comments
d85	Proposed P-SCH/S-SCH related text insertions into 25.213	Not Approved	(*1) (including d86)

(\*1) No Ad Hoc recommendations. This should be discussed in the next meeting.

### 16.14 etc

Tdoc	Title	Conclusion	Notes
c92	Use of Spreading factor 512 with UTRA FDD	Postponed	This will be discussed in the next meeting.
c38	DPCH Synchronisation, revised	Approved	(Discussed in Day5) (*1)

(\*1) Approved as working assumption.

This is in working assumption but the inclusion for the specification documents would be confirmed in the Korean meeting.

### 17. New contributions and not handled in the respective Ad Hocs earlier. (Time permitting)

B17(corrections to 25.211). Approved with no comments.

### 18. Fifth Ad Hocs session 19:30 – 22:30 Ad Hoc 4 & Ad Hoc 14

### 19. Sixth Ad Hoc session 08:00 – 09:00 Ad Hoc 12

Day 5 (Sep. 3)

**23. Approval of the 25.2 documents and technical reports for RAN submission.**

TS	Discussed		Discussions	Approved		Proposed for RAN to raise as V.
	Tdoc	Ver.		Tdoc	Ver.	
25.201	d97	2.2.1	( Note *1 )	e16	2.3.0	3.0.0
25.211	d60	2.3.1	( Note *2 )	e17	2.4.0	3.0.0
25.212	d99	2.1.1	( Note *3 )	e18	2.2.0	3.0.0
25.213	e00	2.2.1	( Note *4 )	e19	2.3.0	3.0.0
25.214	e15	1.2.2	( Note *5 )	e20	1.3.0	(*)
25.215	d90	0.0.1	( Note *6 )	e21	0.1.0	(*)
25.221	d88	1.3.1	Approved without comments.	e22	2.0.0	3.0.0
25.222	d96	2.1.1	( Note *7 )	e23	2.2.0	3.0.0
25.223	d89	2.2.1	Approved without comments.	e24	2.3.0	3.0.0
25.224	d92	1.1.1	( Note *8 )	e25	2.0.0	3.0.0
25.225	d63	0.0.1	( Note *9 )	e26	0.1.0	(*)
TR	d64	0.0.1	( Note *10 )	e40	0.1.0	

(\*) To be discussed in extra meeting in Korea

(Note \*1) Reference : Reference to 25.231 should be replaced by 25.215 and 25.225

4.2 1) “fast inner loop” → “inner loop” (delete “fast”)

4.2.5 2) Editor’s Note Physical layer procedures should be removed

4.2.1 Editor’s Note should be removed

In Technical Report R1.03, the future release of FAUSCH and the report of multiplexing examples should be added.

(Note \*2) 5.3.3.7 Editor’s note should be removed.

5.2.2.2.1 “Preamble (CD-P) of length 4096 chips, a [10] ms DPCCH Power Control Preamble (PC-P) and a message of length Nx10 ms, where  $N < = N\_Max\_frames$ . The value of  $N\_Max\_Frames$  is TBD. ” should be replaced by

“Preamble (CD-P) of length 4096 chips, a [10] ms DPCCH Power Control Preamble (PC-P) and a message of variable length. ” and Editor’s note should be removed.

5.3.3.3 Editor’s note should be removed.

7 Editor’s note should be removed.

5.3.3.1 Figure 14. Editor should make sure that total slot number is 15.

2 Reference [2] TS S1.02: “UE physical layer capabilities” should be removed. (It does not exist.)

/\*\* paragraph exchanged \*\*/

3.3 It was pointed out that abbreviation of PSCCCH could be removed (for the time being).

- (Note \*3) Editor's comment should be made for the missing text proposal (Tdoc d84 "Text proposal for Turbo codes and rate matching in TS 25.212, TS 25.222 (rev. of R1-99d56)" from Samsung is missing. It should be approved the correction in Korea before the RAN.
- (Note \*4) 5.2.1 Paragraph which begins with "The following restriction is set for the combination of SF---" and ends with Table 6 should be removed.  
 4.3.1 The last paragraph "The channelization code for uplink is used to realize---" should be removed.  
 5.2.2 <Editor's note: it is not standardised how many scrambling codes a UE must decode in parallel.> should be removed.  
 4.2.2 The second sentence which begins with "The modulated DPCCH is mapped to the Q- ----" should be removed.  
 5.2.2 Editor should clarify the notation " $16 \cdot 8^j + 16 \cdot k$ , where  $j=0..63$  and  $k=0..7$ " whether  $k$  is multiplied by 16 or 8. (Second line of the p.25)  
 4.2.1 Figure 1 and Figure 2 were deleted. Editor should arrange the Figure numbers. Reference is empty. Current examples or how-to should be removed and references should be made.  
 2  
 3.1, 3.2 Definition and Symbols should be defined.
- (Note \*5) Text proposal (Tdoc d71 "Proposed CPCH-related changes to 25.214 (revision of a73)) is missing. Editor should be requested to insert this issue. Chairman's comment : "Editor inserts that but leaves revision marks for our meeting in Korea for us to see what has been done and check for corrections. and editor puts the note that the "Relations to RACH subchannels" needs to be clarified."  
 4.5.3 "1/4 chip during any 10 ms period" in the last paragraph should not be mentioned in WG1 spec. (WG4 matter)  
 5.1.2.2.1 "If there is a single active connection and there is an idle period during the reception time of the TPC, the UE should not adjust its transmitter power." should be removed.  
 (\*) 4.5.3 b) " $T_0 \pm 128$  chips" should be replaced by " $T_0 \pm [148 \text{ chips}]$ "  
 (\*) 5.2.3.2 The sentence "The transmitted DPCCH/DPDCH power may not exceed Maximum\_DL\_Power dBm, nor may it be below Minimum\_DL\_Power dBm." should be removed.  
 5.2.3.2 The sentence in "if DPC\_MODE = 1", "As a response, the UTRAN may adjust its transmit power only after receiving the three TPC commands." should be removed.  
 5.2.3.5.3.2 Table 4 should be removed.  
 5.2.3.1 <Note> should be removed.  
 5.1.1 "Constant value: This value shall be designated via Layer 3 message (operator matter)." should be removed by "Constant value: This value shall be designated via higher layers."

Chairman concluded as follows.

" We will not remove any of those working assumptions, etc statements in this specification. We will address the selective topics on this document in the meeting in Korea including power control and uplink synchronous transmission. Our aim in the Korean meeting is to have this document as well as measurement documents in shape for RAN submission. For other documents, topics should not be raised in the Korean meeting unless there are some kind of errors and something we need corrections. Regarding the scope for the meeting in Korea, it will be WG1 meeting but focusing only in specific topics around this document and then some clearly needed on some of the packet access items, some of the documents not treated. I will prepare the detailed plan what we are intent to cover in there and then in the actual meeting we will not treat topics that are outside that plan unless there are clearly some clear errors or corrections that is needed in the specifications. They need to be also informed beforehand. They will be treated in the following week meeting in New York. "

- (Note \*6) 7.1.1.2.2.1.3 The same table is included in TS25.223, therefore this table should be replaced by the reference to TS25.223.
- (Note \*7) Samsung made one correction in the reference of Tdoc96 (ver 2.1.1) and discussed version became ver. 2.1.2. Samsung made the explanation on the screen. There were some comments made but according to Samsung, they had been already updated in the version in the latest CD-ROM.
- (Note \*8) 4.2 The whole section should be removed and should be noted as study Items.  
 4.3.2 Section 4.3.2 should be removed and should be noted as study Items.  
 4.3.3.1 “Constant value: This value shall be set via Layer 3 message (operator matter).  
 should be replaced by  
 “Constant value: This value shall be set via higher layers.”  
 4.3.3.2 “Constant value: This value shall be set via Layer 3 message (operator matter).”  
 should be replaced by  
 “Constant value: This value shall be set via higher layers.”  
 4.5.1 There are several references which refers to the other specifications directly. The direct reference should be placed in Reference sections.
- (Note \*9) It was pointed out that Section 7.1.4 should be created for “the idle mode measurement” in order for the future use. (it might be useful.) It was agreed. It was also agreed that the same additional section will be created in TS 25.215.
- (Note \*10) Higher chips rate values should be removed.  
 (Tdoc d64 Items not for inclusion in release –99) V0.1.0  
 (For information for RAN)

**24. Liaison statements approval for the responses (or new liaisons) generated during the meeting.**

Tdoc	Title	To:	Source	Conclusion
e14	Proposed Liaison statement on Physical Layer Service Implementation Capabilities	WG2	Samsung	(*1)
d40	Draft answer to LCS liaison	WG2	Ad Hoc17	Approved.
e94	Draft liaison statement on simultaneous AICH and S-CCPCH	WG2	Ad Hoc3	Approved
d13	LS to TSG-R WG4 and TSG-T WG1 concerning the changes made to Tx diversity concept in the TSG-R WG1 #7	R-WG4 T-WG1	Ad Hoc6	Approved
d50	LS to TSG-R WG2 concerning the changes made to Tx diversity concept in the TSG-R WG1 meeting #7	WG2	Ad Hoc6	Approved
e08	Draft LS to RAN WG2 and WG4 on Measurements	WG2 WG4	Nokia, Qualcomm	Approved
d35	Draft LS on power control limits	WG3	Ad Hoc9	Approved
d36	Draft LS on outer loop power control	WG2	Ad Hoc9	Approved (*2)
e09	Draft LS on Support of Speech Service in RAN	S-WG4	Nortel	Approved (*3)
e10	Draft LS to S4	S-WG4	Ad Hoc4	Approved
e28	Liaison on the removal of superframe concept in layer1			Not Approved (Oct.12, '99)
d68	LS on SFN and BCH coding	WG2		Approved
d26	Draft answer to the LS about TDD synchronisation methods	WG3	Ad Hoc1	Approved
d04	Draft LS on layer 1 segmentation		Ericsson	Approved
e13	Liaison statement on L1 timing issues	WG3 WG4	WG1	Approved
e07	Text proposal for Liaison on transport channel multiplexing	WG2	Nokia, Siemens	Approved
d93	Draft Liaison statement on TFCI mapping	WG2	Ericsson	Approved

(\*1) c87 → d54 → e14

(\*2) 1) D1 should be replaced by DL.

(\*3) S-WG4 should be informed that we have approved 12 bits CRC.

Chairman suggested to add “The details of AMR in TDD has not been covered in full detail in WG1 though many of the points mentioned here are valid for TDD as well.”

(\*4)

**Agenda Item 6. Identification of the incoming/ liaison statements during the week,**

Tdoc	Title	Source	Notes
c88	LS on the support of different RL DL_TX_ power levels in case of Soft Handover	WG3	Ad Hoc 9 chair pointed out that it should be identified as an open Ad Hoc 9 might be able to answer.
c89	LS on L1 Timing issues	WG3	Tdoc C89 related papers A87 & C38, (answer as Tdoc e13) (*1)
c90	Liaison Statement on the usage of the Physical channel BER as UL Quality estimate in the UL DCH Frame Protocol on Iub/Iur	WG3	Chairman requested Mr. Mousley (Philips) to make an answer draft. ( answer as Tdoc e12 )
c91	Liaison on UTRAN Frame Synchronisation model	WG3	?

(\*1) Chairman requested Mr. Agin (Alcatel) to make an answer draft.

## Annex The Participants List

Name		Company
Ammer	Gerhard	Lucent Technol.
Asanuma	Yutaka	Toshiba
Baker	Matthew	Philips
Bang	Seung-Chan	ETRI
Bär	Siegfried	Bosch
Barandalla	Ignacio	Telefonica I + D
Barberis	Marc	Synopsis
Barroso	Christopher	Lucent Technol.
Batz	Gerhard	Motorola
Belaiche	Vincent	Mitsubishi
Benthin	Marcus	Bosch
Berens	Friedbert	ST Microelectronics
Bernocco	Carlo	Italtel
Bishop	Craig	Samsung
Blanz	Josef	Qualcomm
Boumendil	Sarah	Nortel Networks
Brown	Tyler	Motorola
Burbidge	Richard	Motorola
Cardiff	Barry	Nokia
Chaehag	Yi	Samsung
Chambers	Peter	Roke Manor
Cheng	Ray-Guang	Industrial Technology Research Institute
Cho	Sungho	Hyundai
Choi	Jinsung	LGIC
Choi	Hokyu	Samsung
Clop	Oscar	Motorola
Corden	Ian	Lucent Technol.
Cosimini	Peter	Vodafone
Czapla	Liliana	Interdig. Comm
Da Rocha	Alexandre	Alcatel
Dae Lee	Joung	LG
Dahlmann	Erik	Ericsson
De Beneditis	Rossella	Italtel
Dick	Steve	Interdig. Comm
Elders-Boll	Harald	Sony
Fiorentino	Vincenzo	Telital S.P.A.
Furuya	Yukitsuma	Nec Corporation
Futakata	Toshiyuki	NTT DoCoMo
Gautier	Cathérine	Nortel Networks
Gerstenberger	Dirk	Ericsson
Ghosh	Amitava	Motorola
Golitschek	Alexander	Panasonic
Gollon	Sven	Rohde & Schwarz
Gouliaev	Alexandre	NIIR
Guiliang	Yang	CWTS/CATT
Hanaoka	Seishi	Hitachi Ltd.
Harada	Koichi	DoCoMo Europe

Name		Company
Harrold	Colin	B.T.
Henriksson	Anders	Telia
Heynhold	Karsten	Bosch
Higashi	Akihiro	NTT
Hiramatsu	Katsuhiko	Panasonic
Hoffmann	Nicole	Bosch
Höhn	Voker	Mannesmann
Hong	Een Kee	DSPC Technologies
Hoshida	Satoshi	VLSI Technology
Hosur	Srinath	Texas Instruments
Hoynck	Andreas	Siemens
Ikeda	Shinobu	ETSI
In Lyu	Dug	LG
Ito	Kenji	Siemens
Itoh	Katsutoshi	Sony
Jang	Jaesung	Samsung
Jechoux		Mitsubishi
JingHao	Xu	CWTS/RITT
Jürgensen	Jens-Uwe	Sony
Kahtava	Jussi	Nokia
Kang	Heewon	Samsung
Kanterakis	Emmanuel	Gold. Brigde Techn.
Kasapidis	Makis	Panasonic
Kato	Osamu	Panasonic
Keisala	Jyrki	Nokia
Kella	Tideya	Infineon Technol.
Kim	Jung-Im	ETRI
Kim	Joe-Heung	ETRI
Kim	Beongjo	Samsung
Kim	Min-Goo	Samsung
Kim	Jaeyoel	Samsung
Kinjo	Shigenori	Texas Instruments
Kirimura	Mat	Japan Radio
Kistowski	Dirk	T-Mobil
Kjum	Ki-Jan	LG
Klein	Anja	Siemens
Korpela	Sari	Nokia
Kowalewski	Frank	Bosch
Krause	Jörn	Siemens
Krauss	Herbert	Philips
Kwon	Sung Lark	LG
Laumen	Josef	Bosch
Le Bars	Philippe	Canon
Le Strat	Evelyne	Nortel Networks
Lee	Jae Yong	Hyundai
Lee	Chongwon	Hyundai
Lee	Yu Ro	Hyundai
Lee	Young Jo	LGIC
Lee	Hyeonwoo	Samsung
Lee	Dong Do	SK Telecom
Levetaille	Catharine	Nortel Networks

Name		Company
Lez	Kyungtla	Samsung
Lim	Chai Man	Samsung
Lopez	Javier	BT plc.
Loue	Robert	Motorola
Ludden	Brendan	Motorola
Luedtke	Gerhard	E-Plus
Mangold	Peter	Bosch
Mardani	Reza	Lucent Technol.
Masahiro	Uno	Sony Corporation
Matsui	Wataru	Nippon Ericsson
Michel	Jürgen	Siemens
Misra	Raj	Interdig. Comm
Mochizuki	Takashi	NEC
Moon	Hichan	Samsung
Motebbi		Enjitsu Europe
Moulsley	Tim	Philips
Murai	Hideshi	Mitsubishi Electr.
Nakamura	Takaharu	Fujitsu
Nakamura	Takehiro	NTT DoCoMo
Narvinger	Per	Ericsson
Nasshan	Markus	Siemens
Okumura	Yukihiko	NTT Mobile Communications Network Inc.
Okuyama	Nobutaka	LSI Logic
Olofsson	Henrik	Ericsson
Ovesjö	Fredrik	Ericsson
Ozluturk	Fatih	Interdig. Comm
Palenius	Torgny	Ericsson
Park	Changsoo	Samsung
Parsa	Kovrosh	Gold. Brigde Techn.
Pehkonen	Kari	Nokia
Perrin	Jean-Hugues	Alcatel
Plechinger	Jörg	Infineon Technol.
Purat	Marcus	Siemens
Robertson	Brett	Motorola
Romano	Giovanni	Telecom Italia
Rudolf		Mitsubishi
Schnare	Dirk	E-Plus
Secord	Norman	Nortel Networks
Seidel	Eiko	Panasonic
Seifert	Timo	Bosch
Senninger	Christian	Siemens
Shyy	Dong Jye	CCL/ITRI
Sommer	Volker	Siemens
Song	YoungJoon	LGIC
Ståhlfjäll	Peter	Ericsson
Steudle	Ville	Nokia
Sungkwon	Hong	LG
Suzuki	Hidetoshi	Panasonic
Tanaka	Yoshinori	Fujitsu

Name		Company
Torrance	Jeffery	Ubinetics Ltd.
Toskala	Antti	Nokia
Truelove	Stephen	Telecom Modus
Tsunehara	Katsuhiko	Hitachi
Übel	Udo	Philips
Ukonmaanaho	Mauri	Nokia
Ulrich	Thomas	Siemens
Virtanen	Anu	Nokia
Vishwakarma	Ritesh	Cadence Design
Whinett	Nick	Motorola
Wilde	Andreas	Nippon Ericsson
Willenegger	Serge	Qualcom Europe
Wonho	Lee	Samsung
Yamamoto	Kazushi	Mitsubishi Electr.
Yellin	Daniel	DSPC
Yun	Young woo	LG
Zack	Rafael	DSPC Technologies
Zeira	Eldad	Interdig. Comm
Zelmer	Donald	Bell South Cellular