

**Agenda Item:** -

**Source:** Secretary

**Title:** Revised minutes of WG1 #9 meeting

**Document for:**

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### **Draft Minutes for 3GPP RAN-TSG 9<sup>th</sup> WG1 Meeting**

Meeting start: November 30th, 1999

Day 1, started at 9.00

#### **1. Opening of the meeting**

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

#### **2. Approval of agenda (R1-99h99)**

Chairman made a brief introduction of the draft agenda on the screen.

Approved with following modifications.

In order to avoid parallel discussion between Ad Hoc 8 and Ad hoc 4, it was decided that with regard to the agenda item 9, Ad Hoc 16+8 would only discuss measurements and parameterization of compressed mode pattern. And Ad Hoc 4 would deal the TFCI mapping and rate matching issue including compressed mode.

One agenda item (No.8: Inputs from WG1 to WG2 ) was added for the Day1 evening for the discussion of outgoing liaison statement to WG2. WG2 was having a meeting in parallel with WG1 and they should have our liaisons before Friday.

It was questioned by Samsung where the issues on Gated DPCCH transmission should be discussed and it was answered by the chairman that they would be dealt with Ad hoc 14 or discussed in agenda item 16.

#### **3. Approval of the minutes from previous meetings**

##### **- Revised minutes from WG1#7, WG1#7bis and WG1#8**

Following 3 minutes of the previous meetings were approved with no comments

- Tdoc **R1-99g43** Revised minutes of WG1#7
- Tdoc **R1-99h98** Revised minutes of WG1#7bis
- Tdoc **R1-99j83** Revised minutes of WG1#8

#### 4. Report from the joint meeting between TSG RAN WG1 and TSG SA WG4

Chairman made a brief presentation using the slide (Tdoc R1-99k\*\*) about the result of the joint meeting on the AMR issues between TSG RAN WG1 and TSG SA WG4 which was held on November 19<sup>th</sup> in Paris. The report of this meeting (R1-99j58) was already distributed on the reflector.

There following issues were discussed.

- **AMR Class A Bits allocation**

The performance improvement of the Blind Rate Format Detection was discussed. R1 indicated in R1-99H60, presented by NTT DoCoMo, that the performance of the Blind Rate Format Detection would improve if the difference in the number of class A bits between the different modes was maximized. As a conclusion S4 agreed to prepare the description in TS 26.102 that different modes use different number of bits. In R1, the need for having different numbers of bits for Blind Rate Format Detection should also appear in the informative annex in TS 25.212, where Blind Rate Detection is described.

- **Support of AMR Mode Command**

4 options about where and how the mode command would be multiplexed were presented by WG1 chairman. Discussion focused around option 1 and 2. Finally as a conclusion, option 1 which uses the existing coding scheme at layer 1 was selected.

- **AMR Service Implementation Capability** with respect to the number of transport channels.

The main point considered was the number of transport channels for AMR. The current scheme is to have 4 TrCHs for AMR in the downlink and 3 TrCHs in the uplink. In R1-99I45 it was proposed to have a larger number of transport channels in order to have the possibility to use different coding for example for the class A bits when changing the mode.

The issue was to be considered further in this R1 meeting but would require some concrete examples cases with UTRA FDD to get a concrete understanding of the achievable gains

- **AMR Characterization Testing**

Characterization test conditions in terms of error patterns were discussed based on the 2 contributions (R1-99i78 from Nokia and R1-99I46 from Nortel Networks) which provided preliminary lists of relevant channel conditions to include in the characterization phase. R1 is expected to give refined guidance to S4 based on the test cases presented in R1-99I46 and R1-99I78.

No comments were made to this presentation.

**5. Identification of the incoming liaison statements and their scheduling in the answering**  
**- Identifying of items where answer needed before Friday due simultaneous WG meetings. (RAN WG2)**

	Title	Source	To/ Cc	Tdoc No.	Forwarded To	Notes
1	Answer on the LS on the removal of superframe concept in layer 1	RAN WG3	TO	R1-99h90	--	Answer is not expected
2	Eb/N0 range	RAN WG3	TO	R1-99h91	AH 9	
3	Reply to "Liaison on LCS to WG3"	RAN WG3	TO	R1-99h92	AH 17	
4	Liaison statement on DPC Mode Support for Release '99	RAN WG3	TO	R1-99h93	AH 9	
5	Answer to LS from RAN1 on Power Control – TDD aspects	RAN WG3	TO	R1-99h94	AH 1	
6	Liaison statement on UE timing adjustment issue	RAN WG4	TO	R1-99h95	Plenary	
7	LS on UE minimum power	RAN WG4	TO	R1-99h96	AH 9	
8	response to LS <i>TSGR2#7(99)D25</i> on "Definitions for usage of Multi-mode/system terminals"	T2 SWG5	CC	R1-99h97	Plenary	
9	Liaison statement on FDD UE minimum transmission power	RAN WG2	CC	R1-99i21	AH 9	
10	Reply to liaison on Physical Layer Service Implementation Capabilities	RAN WG2	TO	R1-99i22	Plenary	Revised Agenda Item 8
11	Reply to liaison statement on transmitting AMR Mode Command bits	RAN WG2	TO	R1-99i23	Plenary	
12	Response to liaison on UE measurement abilities	RAN WG2	TO	R1-99i24	Plenary→ AH8,16	
13	Response to liaison on GSM measurement abilities for the UE	RAN WG2	TO	R1-99i25	AH 16	
14	Response to LS on RACH message length	RAN WG2	TO	R1-99i26	Plenary	
15	Response for LS on Gated DPCCH transmission	RAN WG2	TO	R1-99i27	AH14→ Plenary	
16	Response for LS on Channel Assignment for CPCH	RAN WG2	TO	R1-99i28	AH 14	
17	LS on Sliding paging occasion	RAN WG2	TO	R1-99i29	Plenary	
18	Liaison on LCS to WG1 (in response to Liaison from WG1)	RAN WG2	TO	R1-99i30	AH 17	
19	LS on Predefined values for transport format attributes of BCH	RAN WG2	TO	R1-99i31	Plenary	
20	Liaison statement on the mixture of primary and secondary scrambling codes	RAN WG2	TO	R1-99i32	Plenary	
21	Liaison statement on 32k Multimedia Data rate	CN WG3	TO	R1-99i41	Plenary	
22	Liaison Statement on measurement accuracy	RAN4 AdHoc	TO	R1-99j31	AH 16	

## 6. Change Requests based on the agreed technical contents in WG1#8 or Ad Hocs in WG1#8

Editors are expected to help 3GPP support team.

### 6.1 Ad Hoc 1 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
1	001	01	25.221	R1-99i84	Primary and Secondary CCPCH in TDD	Siemens AG	Approved	No comments
2	001	01	25.223	R1-99i85	Primary and Secondary CCPCH in TDD	Siemens AG	Approved	No comments
3	001	01	25.224	R1-99i86	Primary and Secondary CCPCH in TDD	Siemens AG	Approved	No comments
4	001	01	25.225	R1-99i87	Primary and Secondary CCPCH in TDD	Siemens AG	Approved	No comments
5	002	02	25.221	R1-99i81	Removal of Superframe for TDD	Siemens AG	Approved	No comments
6	001	01	25.211	R1-99h47	Removal of superframe notation	Ericsson	Approved	No comments
7	002	-	25.224	R1-99h08	Measurement procedure of received reference power for OL-TPC in TDD	Panasonic	Approved	No comments

### 6.2 Ad Hoc 3 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
8	009	01	25.214	R1-99j37	Update of Random Access Procedure	Ericsson	Approved	(*1)
9	009	-	25.211	R1-99i37	20 ms RACH message length	Nokia	Postponed	(*2)
10	017	-	25.212	R1-99i38	20 ms RACH message length	Nokia	Approved	No comments
11	013	01	25.213	R1-99j50	20 ms RACH message length	Nokia	Postponed	(*3)
12	021	-	25.214	R1-99i40	20 ms RACH message length	Nokia	Postponed	(*4)

(\*1) SFN : System Frame Number

(\*2) Chairman introduced relevant WG2 liaison (**R1-99i26**)

Ms. Evelyne Le Strat made a comment on R1-99i26.

“What we have to know on the liaison statement is that it is more flexible than just a cell parameter (RACH message length) and what we can understand with the liaison statement is that there will be, depending on the RACH length like 20ms, the UE access to different set of signatures and more RACH sub-channels.

We have to treat this in line when we review the proposed CR for 25.214 because this is going to have an impact on the signatures and sub-channels selection. The signatures and RACH sub-channels selected will be linked to the message length so that Node B can know what the message length will be.”

**R1-99i37** The sentence “The message length is informed by BCH or by higher layers.” should be revised because who is informing whom is not clear. Message length will be informed to UTRAN from the UE by choosing one of the available access service classes.

**(Conclusion)** This should be reviewed again later, after being checked by the interest parties.

This revision was approved in Day4. (Ref. No.117)

(\*3) This CR should be reviewed after **R1-99i37** (CR009 for TS 25.211) is revised because there is a possibility that this CR might be updated as well.

(\*4) The sentence “The message length in time, either 10 or 20 ms” should be revised taking into account of the WG2 liaison. Message length is **not independent** from available signatures and RACH sub-channels.

### 6.3 Ad Hoc 4 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
13	001	02	25.212	R1-99i19	Correction of rate matching parameters for repetition after 1st Interleaving in 25.212	Siemens LGIC	To be revised	(*1)
14	001	02	25.222	R1-99i20	Correction of rate matching parameters for repetition after 1st Interleaving in 25.222	Siemens LGIC	Not discussed	
15	010	01	25.212	R1-99j25	Clarification of bit separation and collection	Ericsson	Approved	No comments
16	003	-	25.212	R1-99j36	Repetition and Mapping of TFCI code word in downlink	ETRI	Postponed	(*2)
17	016	-	25.212	R1-99i36	Removal of TrCH restriction in DSCH CCTrCH	Nokia	Approved	(*3)

(\*1) Parameter q has been changed in the present specification as q is average puncturing distance. This change should be reflected (clarified) also to these notation in 4.2.7. Parameter S should also be clarified. R1-99i20 should also be revised in terms of same clarifications.

(\*2) As there are some other inputs on the same topics in Ad Hoc 4, this will be converted together with other topics into one CR in ad hoc4 and reviewed later.

(\*3) It was pointed out that the sentence "The maximum value of the number of TrCHs  $I$  in a CCTrCH, (is given from the UE capability class.)" in section 4.2.13.4 should be removed as well as 4.2.13.5.

#### (Conclusion)

The comment is right. But it is difficult to jump now on this UE capability. At least the restriction in 4.2.13.4 should be removed as it is done in the CR because this was in line with communication with WG2. Therefore this CR itself should be approved. And then based on the UE capability discussion, there should be some additional CRs to be made to include those related to UE capability.

### 6.4 Ad Hoc 5 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
18	004	-	25.212	R1-99j11	Changing the initial offset value for convolutional code rate matching	LGIC	Approved	(*1)
19	003	-	25.222	R1-99j12	Changing the initial offset value for convolutional code rate matching	LGIC	Approved	(*2)

(\*1) The change in 4.2.7.2.1 is only for convolutional code (not for turbo code).

(\*2) As there is no "fixed positions of TrCH" in TDD mode ( R1-99j12 ), there is only one change made compared to the 3 changes in FDD mode ( R1-99j11 ).

### 6.5 Ad Hoc 6 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
20	002	-	25.211	R1-99g90	Use of CPICH in case of open loop Tx diversity	Nokia	Approved	(*1)
21	003	02	25.214	R1-99h89	Flexible timing of UTRAN response to uplink closed loop Tx diversity feedback commands	Nokia	Approved	No Comments
22	008	01	25.211	R1-99j26	Modifications to STTD text (*2)	Texas Instruments	Approved	No Comments

(\*1) It was questioned whether is this true only for Primary CPICH or for Primary and Secondary CPICH as a general statement. Chairman suggested we should approve this CR and then as for the types of common pilot channels, discussion should be made by the interested parties. And if it is needed, let's come back with revisions later.

(\*2) CR-004 (Nokia) was withdrawn and included in CR008 (This was decided in the WG1#8 Ad Hoc meeting.)

## 6.6 Ad Hoc 9 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
23	008	-	25.214	R1-99i64	Power offset of AICH and PICH	Ericsson	Approved	No Comments
24	007	-	25.214	R1-99i63	Removal of open loop power control	Ericsson	Approved	No Comments

## 6.7 Ad Hoc 10 related CRs

With regard to TS 25.213 there were 2 contributions, one from Nokia for both uplink and downlink (CR 005), and one from Ericsson for uplink (CR 007). After offline discussion between Nokia and Ericsson, it was concluded that the uplink part should be merged into Ericsson's CR (CR007) and Nokia should propose the downlink part in CR005. Since both CRs needed to be revised in order to get rid of the redundant part, the approval of these CRs were postponed. (These were approved in Day3. See reference No.81 and No.83 of this minutes.)

## 6.8 Ad Hoc 14 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
25	003	02	25.211	R1-99i09	CPCH power control preamble length	Philips Nokia	Approved	No Comments
26	006	02	25.214	R1-99i09	CPCH power control preamble length	Philips Nokia	Approved	No (*1) Comments
27	004	02	25.214	R1-99i10	CPCH power control preamble	Philips	Approved <b>withdrawn</b>	No (*2) Comments
28	005	02	25.214	R1-99i12	Rapid DCH initialisation	Philips	Approved <b>withdrawn</b>	(*3)

(\*1) In this CR, new parameter [ $L_{pc-preamble} = \text{Length of power control preamble (0 or 8 slots)}$ ] was created. In WG2, there also same parameter has been created as well by the text proposal and CR submitted by GBT.

(\*2) This CR was approved with no comments, however in Day3, this was withdrawn by Philips because this was covered by R1-99i11. / **\*\* This CR was withdrawn in Day3. (See reference No.77 of this minutes. ) \*\*/**

(\*3) There is another CR on the same section, topics. (originally proposed by Motorola)  
(Conclusion) Chairman suggested we should approve this CR here and then this should be discussed again in Ad Hoc 14. Based on the outcome of the Ad Hoc 14, if further revision is needed then let's come back again.  
**/ \*\* This CR was withdrawn in Day3. (See reference No.57 of this minutes. ) \*\*/**

## 7. Change Request on the corrections/clarifications to the WG1 specifications

CRs which should be really of editorial nature not introducing new technical things.

There are also some of those prepared by the editor.

### 7.1 TS 25.211

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
29	005	-	25.211	R1-99h48	Editorial corrections	Ericsson	Postponed	(*1)
30	006	-	25.211	R1-99i47	Change to the description of TSTD for SCH	Ericsson	Approved	No Comments
31	010	-	25.211	R1-99i49	Update to AICH description	Ericsson	Approved	(*2)

(\*1) This CR was discussed on Day 3 (Dec. 2) 16:04, and originally it was distributed with Tdoc number R1-99h48. But it turned out that this Tdoc number was wrongly allocated and there existed another R1-99h48. Therefore this CR was to be revised as R1-99i07. Furthermore there was one comment which pointed out that in p.24, there was no Slot Format #2. This was to be corrected in **R1-99i07**. (Reference No.101)

(\*2) As this CR was based in line with spreading description in TS 25.213 (**R1-99i60**), AICH part of R1-99i60 was reviewed.

In 5.3.3.6, should “unused part consisting of 8 real-valued symbols  $a_{32}, \dots, a_{39}$ .” be clarified as “0, +1, -1” ?  
 It should be put as “undefined” as it is done in the CR. Below Figure 21, there is a sentence “The real-valued symbols  $a_{32}, a_{33}, \dots, a_{39}$  in Figure 21 are undefined”

### 7.2 TS 25.212

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
32	008	-	25.212	R1-99h79	Editorial corrections to TS 25.212	Nokia	Approved	(*1)
33	014	-	25.212	R1-99i58	Update of channel coding sections	Ericsson	Postponed	(*2)
34	015	01	25.212	R1-99j38	TFCI coding in FDD	Siemens	Approved	(*3)

- (\*1) - 4.2.2 is the word “in question” suitable for the specification ?  
 - 4.2.3.1.1 Is the sentence “ The output of the PCCC encoder is punctured to produce coded bits corresponding to the desired code rate ” still needed when there is only 1/3 rate for turbo code ?  
 (Conclusion)  
 This CR is only for editorial errors correction. If there is a need for correction regarding the contents, then let’s produce another CR.
- (\*2) Discussion was made regarding the removal of the sentence in 4.2.3.2.1 “For data service requiring quality of service between  $10^{-3}$  and  $10^{-6}$  BER inclusive”. After all it was postponed to Day4. (Ref. No. 119)
- (\*3) This CR is the revision of R1-99i07( TS 25.212 CR 015 ) reflecting the comments on the reflector.

### 7.3 TS 25.213

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
35	006	-	25.213	R1-99i60	Update of downlink spreading description	Ericsson	Approved	(*1)
36	007	-	25.213	R1-99i61	Update of TS 25.213 uplink parts	Ericsson	To be revised	(*2)
37	008	-	25.213	R1-99i62	Updated modulation description	Ericsson	Approved	No Comments

- (\*1) One comment was made regarding the replacement of the previous figure 8 in 5.1. Where is now defined which channelization code is used for DPDCH if we have multiple case ?  
 → That information is in TS25.211 5.3.2 Figure. 11
- (\*2) Following comments were made.
- In the newly created 4.2.3.2 *PCPCH message part*, in the last sentence “ The scrambling code is applied aligned with the radio frames, i.e. the first scrambling chip corresponds to the beginning of a radio frame”, which radio frame is supposed ?  
 → The message part and all the RACH and also CPCH can be divided into 10ms segments and in each of this 10ms segments, there are scrambling codes defined and correspond to first part of that 10ms segment. This was the intention but this could be expressed more clearly.
  - Offline discussion for HPSK transformation should be needed.
  - Scrambling and power control preamble parameters should be mentioned in 4.2.3 as well as preamble part and message part. → There are CRs by Philips and Nokia and those items are hopefully covered in them.
- (Conclusion)  
 Chairman suggested offline discussion by the interested group and this CR should be revised afterwards.

#### 7.4 TS 25.214

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
38	025	-	25.214	R1-99j24	Cleanup of synchronisation procedures	Ericsson	Approved	(*1)
39	032	-	25.214	R1-99j69	Variable rate packet transmission	Panasonic	Postponed	(*2)
40	011	-	25.214	R1-99i02	Clarification of closed loop transmit diversity figure in section 8 and closed loop operation in compressed mode for mode 2 in section 8.3 of TS 25.214	Motorola	Approved	No Comments
41	016	-	25.214	R1-99i14	Uplink power control in compressed mode	Philips	Approved	No (*3) Comments

(\*1) Mr. Tim Mousley (Philips) pointed out that the definition of parameter  $S_R$  should be clarified.

→ This does not have direct relation to this CR. But if needed, the revision will be made later.

(\*2) Ms. Evelyne Le Strat made a comment that we should check the consistency of CR with the power control in general, including the terminology used in this CR. Chairman suggested that since this is not mere clarification nor corrections, this should be discussed further in Ad Hoc 14. This was postponed to Ad Hoc 14. Revision was presented on Day 3 (reference No. 95), but it was not approved.

(\*3) Ad Hoc 9 issue discussed on the reflector.

#### 7.5 TS 25.221

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
42	006	-	25.221	R1-99i98	Corrections to TS25.221	Siemens	Approved	No Comments

#### 7.6 TS 25.222

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
43	008	01	25.222	R1-99j28	TFCI coding in TDD	Siemens	Approved	No Comments



## 8. Inputs from WG1 to WG2

Liaison statement sent to WG1 from WG2 which were identified to be discussed in the plenary were briefly reviewed.

### **R1-99i22** *Reply to liaison on Physical Layer Service Implementation Capabilities*

This liaison statement includes 2 separate items.

- 1) UE radio access capabilities → would be discussed with TR25.926 later
- 2) AMR mode whether there could be more than one transport channel or not.  
Nortel is currently running the simulations → would be treated in Ad Hoc4

### **R1-99i23** *Reply to liaison statement on transmitting AMR Mode Command bits*

Ms. Evelyne Le Strat was asked to make the draft answer by the chairman.

### **R1-99i24** *Response to liaison on UE measurement abilities*

→ Should be discussed in Ad Hoc 16

### **R1-99i26** *Response to LS on RACH message length*

→ Already covered in the discussion of Ad Hoc 3 related CRs.

### **R1-99i27** *Response for LS on Gated DPCCCH transmission*

→ would be discussed later again

### **R1-99i29** *LS on Sliding paging occasion*

Regarding this LS, **R1-99j61 CR-011 rev.1 for TS 25.211** (rev. of R1-99i77) was reviewed. As there was one comment that the equation should be checked, the approval of this CR was postponed.

Mr. Fredrik Ovesjo was asked to make the draft response to WG2 on this issue.

### **R1-99i31** *LS on Predefined values for transport format attributes of BCH* → Noted

### **R1-99i32** *Liaison statement on the mixture of primary and secondary* → Noted

One comment was raised regarding this topic that in WG1 specification, whether can multiple scrambling code or just 2 scrambling code be used is not clearly defined. In TS 25.213 section 5.2.2, there is a following statement “The mixture of primary scrambling code and secondary scrambling code for one CCTrCH is allowable.” for this but this could be elaborated to avoid future misunderstandings.

Day 1 Evening session (19:40 - )

The liaison statements to WG2 regarding the “UE Radio Access Capabilities” were discussed. (Chairman’s introduction)

Besides the incoming liaison statement (R1-99i21), we have to discuss about the Technical Report (TR25.926) “UE radio access capabilities” which has been drafted in WG2. For which we have sent some inputs, for instance, AMR support last time and WG2 has produced the tables which includes the possible UE radio access capability parameter settings. Some of them are WG2 related issues but there are some really physical layer issues (Maximum number of simultaneous transport channels, etc). The guidance from physical layer is definitely needed so that WG2 does not have to end up discussing.

### **R1-99k06** *Proposed updates to Table 1 in TR 25.926 “UE Radio Access Capabilities”*

Source : Ericsson, Nokia, NTT DoCoMo, Siemens

Mr. Erik Dahlman (Ericsson) presented R1-99k06 which includes the modification of **Table-1** in TR25.926.

Several comments were made.

- (1) The definition of “Maximum number of simultaneous transport channels” is very unclear. (Though this term was used in the original document from WG2.)
- (2) As for the minimum figure, is there the assumption that considers the downlink AMR mode command? → No. Support of AMR is not baseline capability
- (3) As for the “maximum number of physical channels per timeslot” in “TDD physical channel parameters in uplink”, Should this be “1 timeslot 1 code” ? (Though this is from WG2.)
- (4) We should add explanations for the range of values.
- (5) The item (definition) “Maximum number of DPCH bits” differs between “FDD Physical channel parameters in downlink” and “uplink”.
- (6) Why the maximum numbers in the first row(in TTI) of the table and second row (in 10ms) are same ?

(7) In the items of FDD Physical channel parameters in downlink and uplink, “Maximum number of DPCH bits per RL” should be “Maximum number of DPCH per RL”.

(Conclusion)

The chairman asked some volunteers to draft the revision by the next day evening (plenary)

**R1-99j93 (Table2)** *Proposal for TR 25.926 parameter combination table*  
Source : Nokia

Mr. Kari Pehkonen (Nokia) presented R1-99j93 which includes the modification of **Table-2** in TR25.926.

It was questioned that what is this table used for ? What is the intention of this table ? Just summary of example or operator's hand book? → This can not be requirement.

It was decided not to send this to WG2. Proponents should provide this to their own WG2 proponents as a guideline.

Day 2, Started at 08:00

**9. Ad Hoc sessions Ad Hoc 1 & Ad Hoc 9 (morning)**

**10. Ad Hoc sessions Ad Hoc 16+8 & Ad Hoc 4 (afternoon)**

**11. Plenary: Approval of liaisons to WG2 meeting in parallel**

17:15 – 17:45

4 liaison statements to WG2 are reviewed. 3 of them are approved and one was postponed.

(See Section 19 of this minutes.)

Day 3, started at 08:00

**12. Ad Hoc sessions: Ad Hoc 14 & Ad Hoc 17 (morning)**

Plenary session 13:15 –

**13. Reports from Ad Hoc from Day 2**

**13.1 Report from Ad Hoc #1: TDD (R1-99k38)**

Approved with no comments

**13.2 Ad-hoc 9 physical meeting report (R1-99k37)**

Approved with no comments

**13.4 Ad Hoc 4 report (R1-99k87)**

Approved with no comments

( What was proposed on compressed mode by puncturing is not included in the specification but this would be revisited later. Mr. Fredrik Ovesjo stated in answering the chairman's question. )

**13.5 Report from Ad Hoc 16 & 8 (R1-99k50)**

Approved with one comment made by Mr. Fredrik Ovesjo regarding CPICH SIR for clarification. Chairman answered that now the issue is rather between WG2 and WG4, and what we would do here is to accept the CR017 for TS25.215 (Tdoc **R1-99j88**) on the condition that WG4 sees variable things to use for handover measurements and if WG4 cannot agree on the usability of that then this CR would be rejected in RAN.

## 14. CRs produced based on agreements in the Ad Hoc

### 14.1 CRs postponed in Day1

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
44	002	01	25.222	R1-99k07	Clarification of bit separation and collection	Samsung LGIC	Approved	No Comments
45	001	03	25.212	R1-99j97	Correction of rate matching parameters for repetition after 1st Interleaving in 25.212	Siemens LGIC	Approved	No (*1) Comments
46	001	03	25.222	R1-99j98	Correction of rate matching parameters for repetition after 1st Interleaving in 25.222	Siemens LGIC	Approved	No (*1) Comments

(\*1) Postponed in Day 1, See Reference No. 13 & 14 of this minutes.

### 14.2 Ad Hoc 1 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
47	004	-	25.223	R1-99j34	Code allocation for Case 3	Texas Instruments	Approved	No Comments
48	001	02	25.221	R1-99k56	Primary and Secondary CCPCH in TDD	Siemens Motorola Nokia	Approved	No Comments
49	007	-	25.222	R1-99i94	Update of rate matching rule for TDD	Siemens AG	Approved	No Comments
50	003	01	25.223	R1-99k62	Alignment of Terminology Regarding Spreading for TDD Mode	Siemens AG	Approved	No Comments
51	005	01	25.224	R1-99k63	Alignment of Terminology Regarding Spreading for TDD Mode	Siemens AG	Approved	No Comments
52	004	01	25.224	R1-99k84	STTD capability for P-CCPCH, TDD component	Motorola	Approved	No Comments
53	002	01	25.225	R1-99k85	Block STTD capability for P-CCPCH, TDD component	Motorola	Approved	No Comments
54	013	-	25.222	R1-99k57	Introduction of TFCI for S-CCPCH in TDD mode	Siemens AG	Approved	No Comments
55	009	-	25.221	R1-99k60	Midamble Allocation in UTRA TDD	Siemens Nokia	Approved	No Comments

### 14.3 Ad Hoc 9 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
56	023	01	25.214	R1-99k69	Maximum Tx power at uplink compressed mode	Telia AB	Approved	No Comments
57	015	01	25.214	R1-99k51	Consolidation of Power Control Information for DCH Initialisation	Philips	Approved	No (*1) Comments
58	024	02	25.214	R1-99k78	Setting of power in uplink compressed mode	Ericsson	Approved	No Comments
59	013	01	25.214	R1-99j91	Setting of beta values for multi-code	Ericsson	Approved	No Comments
60	012	-	25.214	R1-99i66	Uplink power control maximum TX power	Ericsson	Approved	No Comments

(\*1) There was **R1-99i12** which was approved in Day1 with the comment that there was another change request on the same section, same topic. Afterwards this **R1-99i12** was superseded by **R1-99k51** and thus **R1-99i12** is no longer relevant. (See Reference No. 28 of this minutes.)

#### 14.4 Ad Hoc 4 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
61	028	-	25.212	R1-99k67	TFCI coding and mapping including compressed mode	Siemens LGIC ETRI Ericsson	Approved	No Comments
62	008	02	25.222	R1-99k86	TFCI coding in TDD	Siemens LGIC	Withdrawn	(*1)
63	007	01	25.211	R1-99k79	Introduction of compressed mode by higher layer scheduling	Ericsson	Approved	No Comments
64	005	01	25.212	R1-99k80	Introduction of compressed mode by higher layer scheduling	Ericsson	Approved	No Comments
65	027	-	25.212	R1-99k82	Modification of BTFD description in 25.212 Annex	NTT DoCoMo	Approved	No Comments

(\*1) This was postponed in Day3 because it was not distributed to all at that moment, but in Day 4, this was replaced by R1-99k68. (ref. No.99)

#### 14.5 Ad Hoc 16+8 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
66	002	-	25.215	R1-99i68	Definition of PCCPCH RSCP	Ericsson	Approved	No Comments
67	003	-	25.215	R1-99i69	Definition of observed time difference to GSM cell	Ericsson	Approved	No Comments
68	004	-	25.215	R1-99i70	Measurements are done on Primary CPICH	Ericsson	Approved	No Comments
69	011	-	25.215	R1-99i76	Removal of Annex A from TS 25.215	Ericsson	Approved	No Comments
70	013	-	25.215	R1-99j22	Definition of Transmitted code power	Ericsson	Approved	No Comments
71	009	01	25.215	R1-99k27	Range and resolution for RF related measurements	Ericsson	To be revised	(*1)
72	020	-	25.215	R1-99k28	Correction of SFN-SFN observed time difference	Ericsson	Approved	No Comments

(\*1) There were editorial mistakes found in 5.1.1 and this CR would be revised to R1-99L10.

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
73	011	01	25.211	R1-99j61	Sliding paging indicators	Ericsson	Approved	No (*) Comments

(\*) This was reviewed and postponed in Day1 with regard to LS from WG2 (**R1-99i29** *LS on Sliding paging occasion*) but approved with no change (equation was reviewed by the interested parties). See section 8.

### 15 Reports from Ad Hoc from Day 3

#### 15.1 AdHoc#14 Meeting Summary (R1-99k97)

Approved with no comments

#### 15.2 Adhoc 17 report to RAN WG1#9 (R1-99k92) /\*\* Presented in Day 4 \*\*/

Approved with no comments

#### 15.3 Ad-hoc 9 physical meeting#2 report (R1-99/ 51) /\*\* Presented in Day 4 \*\*/

Approved with one comments

→ Update timing is 2 slot delay and 3 slot time offset between slot numbers instead of 3 slot delay.  
(The Tdoc number of "R1-99/51" is used for revised version. )

## 16. CRs produced based on agreements in the Ad Hocs

### 16.1 Ad Hoc 14 related CRs

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
74	017	-	25.211	R1-99k52	Timing for initialisation procedures	Philips	Approved	No Comments
75	018	01	25.214	R1-99k52	Timing for initialisation procedures	Philips	Approved	No Comments
76	011	01	25.213	R1-99k83	CPCH codes in power control preamble	Philips	Approved	No (*1) Comments
77	014	-	25.214	R1-99i11	Consolidation of CPCH Power Control Preamble Information	Philips	Approved	No (*2) Comments

(\*1) "CPPCCH" in 4.3.4.4 is a new term agreed in Ad Hoc 14 in Day3.

(\*2) **R1-99i10**, *R1-99i15* are covered in this CR. Therefore R1-99i10 which was approved in Day1 was withdrawn. (For R1-99i10, See reference No.27 of this minutes. R1-99i15 was treated in AdHoc14.)

(Chairman's comment)

The issues for CPCH are not finalized. What should we do ? We do not have time in this meeting for this issue to be discussed. My proposal is that we would like to request RAN that we would like to include this CPCH issue for release '99 and we need more time to March to finalize this.

### 16.2 Ad Hoc 17 related CRs /\*\* presented on Day 4, a.m. \*\*/

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
78	036	-	25.214	R1-99k16	Inclusion of idle periods for the IPDL LCS	Nokia Ericsson	Approved	No Comments
79	007	02	25.215	R1-99/01	Ranges and resolution of timing measurements	Ericsson	Approved	No Comments
80	010	02	25.215	R1-99/09	New sections: 5.1.15 – UE GPS Timing of Cell Frames for LCS; 5.2.8 UTRAN GPS Timing of Cell Frames for LCS	Lucent Technologies	Approved	No Comments

### 16.3 CR postponed in Day1

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
81	005	01	25.213	R1-99k05	Harmonization of notations for downlink scrambling codes	Nokia	Approved	No (*1) Comments
82	004	01	25.222	R1-99k04	Editorial corrections to TS 25.222	Nokia Siemens	Approved	No (*2) Comments
83	007	01	25.213	R1-99k12	Update of TS 25.213 uplink parts	Ericsson	Approved	No Comments

(\*1) The downlink part. See 6.7 of this minutes.

(\*2) When CR008 for TS 25.212 was approved in Day1 (Reference No.32), it was mentioned that there was a similar CR in TS25.222 (CR004). But there also was Siemens's CR (CR005) for the same topic. These 2 CRs were merged into this CR004 rev.1

(\*3) The uplink part. See 6.7 of this minutes.

## 17. Contributions on issues where CRs are still needed for Release –99 specifications

### 17.1 TS 25.211

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
84	022	-	25.211	R1-99j05	Modification of the STTD encoding scheme on DL DPCH with SF 512	NEC	Approved	(*1)
85	016	-	25.211	R1-99j84	Timing Control for USTS	SK Telecom	Postponed	(*2)

(\*1) There is another CR on the same section (TI). Editor will be asked to incorporate both CRs.

(\*2) This should be revised in terms of the CR formality. And there are 2 versions with same Tdoc number. Equation of time in section 7.6.3 differs between 2 versions and equation itself should be revised. This was approved in Day4. (See reference No.130 of this minutes.)

### 17.2 TS 25.212

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
86	??	-	25.212	R1-99j04	Rate matching and multiplexing for compressed mode with puncturing (Method A)	Nokia	Postponed	(*1)
87	009	-	25.212	R1-99i53	Removal of SFN multiplexing	Ericsson	Approved	No Comments
88	011	01	25.212	R1-99j89	Connection between TTI and CFN	Ericsson	To be revised	(*2)
89	012	01	25.212	R1-99j90	Zero length transport blocks	Ericsson	To be revised	(*3)
90	018	-	25.212	R1-99i59	Minimum SF in UL	Ericsson	Approved	(*4)
91	026	01	25.212	R1-99k43	Corrections to TS 25.212	Panasonic	Postponed	(*5)
92	024	-	25.212	R1-99k09	Rate matching parameter determination in DL and fixed positions	Mitsubishi	Approved	No (*6) Comments

(\*1) Nokia proposed compressed mode Method A. With regard to this CR, R1-99j03 was reviewed.

Big discussion was made.

- Some company did not recognize the benefit of this method but some other recognized it.
- Some company did insist that it was too late but on the other hand, in the New York meeting it was discussed that method A should be removed unless the details on this method will not provided in the next meeting, therefore we can not say it is too late.
- There was a comment that even if we forget the deadline or time schedule, it should be from the technical point of view desirable to review and analyze this proposal
- All methods are optional.

(Conclusion)

Chairman suggested that this should be postpone to March (release '99).

Chairman would report this to RAN.

(\*2) In section 4.2.14, figure 8 or equation  $CFN_i \bmod (TTI_i/10ms) = 0$ , which is equivalent to the figure 8 should be retained.  $TTI_i/10ms$  is defined as parameter F in TS 25.212. The revision was approved in Day4. (Ref. No.115)

(\*3) - In the sentence in 4.2.1.1 "If no bits are input to the CRC calculation ( $A_i = 0$ ), no CRC attachment shall be done, i.e.  $B_i = 0$ .",  $A_i$  is a block length so this  $A_i$  should be replaced by  $A_i/F_i$  (number of block). Furthermore  $B_i = 0$  should not be mentioned because  $B_i$  is the length of the attached CRC.

- In the sentence in 4.2.3 "If no bits are input to the channel coding ( $Y_i = 0$ ), no bits shall be output from the channel coding, i.e.  $E_i = 0$ ." should be replaced as "If no code block are input to the channel coding ( $C_i = 0$ ), no bits shall be output from the channel coding, i.e.  $E_i = 0$ ."

- This is directly related to NTT DoCoMo's proposal regarding "Physical channel bit error rate" and NTT DoCoMo requested the approval of this should be waited after their contribution is reviewed.

- What happens with blind rate detection in case of no bits, no CRC ?

The revision was approved in Day4 ( Ref.No.116 ).

(\*4)

(\*5) This CR introduced higher rate FACH (turbo coded) option in addition to convolutional coded FACH. Discussion was made about this turbo coded FACH. Chairman suggested offline discussion. Conclusion was postponed.

This CR was revisited on Day4 and without any modification, was approved. (See reference No.120)

(\*6) R1-99k08 was withdrawn.

### 17.3 TS 25.213

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
93	009	-	25.213	R1-99i00	Restriction for spreading factor 512 allocation in the UTRA FDD Downlink	Nokia	Approved	No Comments

### 17.4 TS 25.214

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
94	029	-	25.214	R1-99j59	Out-of-synch handling	Nokia	Approved	(*1)
95	032	01	25.214	R1-99k24	Variable Rate Packet Transmission	Panasonic	Postponed	(*2)
96	041	-	25.214	R1-99j13	Revision of power control timing text	NEC	Approved	No Comments
97	033	-	25.214	R1-99j76	Uplink TX timing adjustment	Ericsson	Postponed	(*3)

(\*1) 2 comments were made. Both encouraged this starting of "out-of-sync handling" handling.

(\*2) This was the revision of R1-99j69. (Reference No. 39 of this minutes)

- Section 7 does no longer exist because it was deleted by the previous CR.

- Selection of smaller rate is a transport format combination selection and this should not be done by the physical layer but should be done by the higher layers on the basis of the threshold set by the UTRAN. → WG2 spec ?  
Chairman suggested offline discussion.

(\*3) There seems to be assumption that network control re-adjustment is not working. The re-alignment under the control of the UTRAN is always possible since we have UE Rx / Tx timing which is reported for any of the cells.  
→ Can shifting without losing synchronization be possible ?

(Conclusion) This should be revisited in Day4 morning after being checked by the interested parties.

This was postponed but approved without any modifications in Day 4. (Ref. No. 133)

Day 4, began at 8:00

Ad Hoc17 and Ad Hoc 9#2 report were presented. See 15.2 and 15.3.

### 18. Approval of CRs for WG1 specifications not treated earlier or postponed due corrections

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
98	008	-	25.221	R1-99k58	Transmission of TFCI bits for TDD	Siemens AG	Approved	No (*1) Comments
99	015	-	25.222	R1-99k68	TFCI coding and mapping in TDD	Siemens LGIC	Approved	No (*2) Comments
100	009	01	25.222	R1-99j37	Modified physical channel mapping scheme	Nokia Siemens	Approved	No (*3) Comments
101	005	01	25.211	R1-99j07	Editorial corrections	Ericsson	Approved	No (*4) Comments
102	026	02	25.214	R1-99j04	Downlink power control	Nokia	Approved	No (*5) Comments
103	009	02	25.215	R1-99j10	Range and resolution for RF related measurements	Ericsson	Approved	No (*6) Comments
104	014	02	25.215	R1-99j02	Range and resolution of BLER measurements	Ericsson	Approved	No (*7) Comments
105	015	02	25.215	R1-99j02	Range and resolution of BER measurements	Ericsson	Approved	No (*7) Comments

No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
106	021	01	25.215	R1-99/03	CFN-SFN measurement with compressed mode	Nokia Ericsson	Approved	No Comments
107	003	-	25.225	R1-99k98	Update concerning measurement definitions, ranges and mappings	Siemens AG	Approved but revised	(*8) No.123
108	001	02	25.215	R1-99k42	Clarifications for compressed mode parameters	Nokia	To be revised	(*9)
109	025	01	25.212	R1-99/34	CR for parity bit attachment to 0 bit transport block	NTT DoCoMo	Not Approved	(*10)
110	006	-	25.215	R1-99i72	Definition of SIR measurement	Ericsson	Approved	No Comments
111	005	01	25.215	R1-99k81	Physical channel BER on DPCCH	Ericsson	Approved	No (*11) Comments
112	007	01	25.221	R1-99k61	Clarifications for Spreading in UTRA TDD	Nokia Siemens	Approved	No Comments
113	010	01	25.214	R1-99/22	Soft symbol combining for uplink power control	Nokia	Approved	No (*12) Comments
114	042	-	25.214	R1-99/05	Inclusion of adjustment loop in downlink power control	NEC	To be revised	(*13)
115	011	02	25.212	R1-99/26	Connection between TTI and CFN	Ericsson	Approved	(*14)
116	012	02	25.212	R1-99/27	Zero length transport blocks	Ericsson	Approved	No (*15) Comments
117	009	01	25.211	R1-99/21	20 ms RACH message length	Nokia	Approved	No (*16) Comments
118	021	-	25.214	R1-99i40	20 ms RACH message length	Nokia	Approved	(*17)
119	014	-	25.212	R1-99i58	Update of channel coding sections	Ericsson	Approved	(*18)
120	026	01	25.212	R1-99k43	Corrections to TS 25.212	Panasonic	Approved	(*19)
121	001	03	25.215	R1-99/42	Clarifications for compressed mode parameters	Nokia	Approved	No (*20) Comments
122	017	01	25.215	R1-99/50	CPICH SIR measurement	Telia AB	Approved	No Comments
123	003	01	25.225	R1-99/43	Update concerning measurement definitions, ranges and mappings	Siemens AG	Approved	(*20) No.107
124	012	01	25.213	R1-99/13	Support of short codes for CPCH	GBT	To be revised to R1-99/67	must be done on v3.0.0
125	014	01	25.213	R1-99/14	Editorial Change	GBT	Approved	No Comments
126	017	01	25.213	R1-99/15	Correction ( <del>Editorial Change</del> )	GBT	Approved	Correction
127	027	01	25.214	R1-99/17	Editorial Change	GBT	Postponed	(*21)
128	019	-	25.213	R1-99/12	Correction to code allocation for compressed mode	Ericsson	Approved	(*22)
129	030	01	25.214	R1-99/44	State update rule addition to SSDT specification	NEC /Telecom MODUS	To be revised to R1-99/70	must be done on v3.0.0
130	016	01	25.211	R1-99/29	TAB structure and timing relation for USTS	SK Telecom	Approved	(*23)
131	016	-	25.213	R1-99/30	Channelization Code Allocation for USTS	SK Telecom ETRI	Approved	No Comments



No.	CR	rev.	TS	Tdoc	Title	Source	Conclusion	Notes
132	034	-	25.214	R1-99/31	Physical Layer Procedure for USTS	SK Telecom	Postponed	(*24)
133	033	-	25.214	R1-99j76	Uplink TX timing adjustment	Ericsson	Approved	(*25)
134	012	02	25.213	R1-99/67	Support of short codes for CPCH	GBT	Approved	No.124
135	030	02	25.214	R1-99/70	State update rule addition to SSDT specification	NEC /Telecom MODUS	Approved	No.129
136	010	-	25.221	R1-99/68	Introduction of the timeslot formats to the TDD specifications	Nokia Siemens	Approved	No Comments
137	042	01	25.214	R1-99/59	Inclusion of adjustment loop in downlink power control	NEC	Approved	(*26) No.114

(\* ) R1-99k66 / CR005r1 for TS25.221 “Cycling of cell parameters” was decided to be postponed in the offline discussion.

(\*1) Ad Hoc 1

(\*2) This replaces R1-99k59 and R1-99k86 which was postponed in Day 3 because of document circulation. (Ref. no. 62 of this minutes)

(\*3) This was distributed as “R1-99xxx CR on TDD physical channel mapping.zip” in CD-ROM 3/12 am.

(\*4) This is the revision. See reference No.29 of this minutes.

(\*5) Outcome of the Ad Hoc 9

(\*6) This is the revision. See reference No.71 of this minutes.

(\*7) Outcome of the Day3 evening session

(\*8) In 5.1.4, the should the resolution 1dB instead of 1dBm ? (Let’s ignore the issues not essential for the time being.)

(\*9) Outcome of Ad Hoc 16 + 8 session

- In 6.1.1.2 “Compressed mode method: The method for generating the downlink compressed mode gap can be puncturing, reducing the spreading factor or gating and is described in [2].”, The word “gating” should be named more officially. → “upper layer scheduling”

- In 6.1.1.1, “In the case of multiple measurements in one gap, each combination shall be explicitly specified.” is not clear and should be removed because now we are waiting WG2 feedback for this issue and the exact definition of the measurement purpose is to be further clarified.

This would be revised as **R1-99/42**.

(\*10) Nortel opposed in terms of the inconsistency this CR might cause with WG2 specification. (Chairman’s conclusion)

We will liaise the issue with WG2. Chairman would cover this issue in the chairman’s report to RAN and have WG2 chairman’s opinion whether this would cause problem and they can not accept this or they can accept this with some adjustment in parameterization in their specifications.

(\*11) Instead of number of bit errors, BER will be reported.

(\*12) This is the revision of R1-99h81.

(\*13) - Real transmission power is quantized by the loop but in this CR the description of quantization is not reflected. - sign( ) is not defined in the specification (TS 25.214).

This would be revised as R1-99/59. (Ref. No.137)

(\*14) This is the revision. (Ref. No.88)

/\*\* later \*\*/

(\*15) This is the revision. (Ref. No.89)

(\*16) This is the revision. (Ref. No.09)

(\*17) It was postponed by the reason written in Ref. No.12 of this minutes, but it was approved with no change.

(\*18) It was postponed by the reason written in No.33 of this minutes, but it was approved with no change.

(\*19) It was postponed by the reason written in No.91 of this minutes, but it was approved with no change

(\*20) This is the revision. (Ref.No.108)

(\*21)

(\*22) If the figures are good to better understandings, should they be incorporated in CR (specs)? → someday

(\*23) This is the revision. (Ref. No.85)

(\*24) - In the sentence “TAB replaces the TPC bit in slot #14 in frames with CFN mod 2 = 0” in section 9.3 whether TAB replaces whole bits or single bit should be clarified.

- Parameter  $T_{INIT\_SYNC}$  should be clarified. (When you set up downlink timing of this physical channel, how is the timing set up ?)

Chairman suggested further discussion on this on the reflector and we would come back to this in the next meeting.

(\*25) This autonomous adjustment method should be enable/disable controlled by the UTRAN in the future. We can work on this more.

(\*26) The first sentence in the last paragraph of 5.2.1.2.2 “The actual change in the transmitted power level due to the adjustment loop is a value which is the nearest allowed TPC step to  $S_{ADJ}(i)$ . ” the word “nearest allowed TPC” should be replaced by “nearest available TPC” But this was approved on the condition that this should be corrected later,

## 19. Approval of the liaison statements as output from WG1

No	Discussed Tdoc	Source	To	Title	Approved Tdoc	Notes
1	R1-99k13	AdHoc9 Ericsson	R2,3,4	(Draft) LS on definition of outer loop target	R1-99k46	Day2 (12/1) No comments
2	R1-99k14	Ericsson	R2	(Draft) LS on sliding paging channel	R1-99k47	Day2 (12/1) No comments
3	R1-99k25	Ericsson	R2	(Draft) Liaison to WG2: "Comments on TR 25.926 "UE Radio Access Capabilities" "	R1-99k48	Day2 (12/1) (*1)
4	R1-99k45		R2 C:RP		R1-99k49	Day2 (12/1)
5	R1-99/25	AH16	R2,4 C:RP	(Proposed) Liaison Statement on the usage of measurements in RAN	R1-99/28	12/2 22:10 No comments
6	R1-99k41	Nokia	R2	Answer to LS: clarification of UE measurement abilities (Draft)	Revised to R1-99/08	CR(k42→l42) No change made between /08&/165
7	R1-99/08	RAN1	R2	Answer to LS: clarification of UE measurement abilities	R1-99/65	
8	R1-99/35	NTT DoCoMo	R2 C:RP	(Draft) LS on parity bit attachment to 0 bit transport block	R1-99/45	(*2)
9	R1-99/39	Nortel	R2 C:R3,4	(Draft) LS on introducing 2 types of UTRAN Physical channel BER	R1-99/48	No comments
10	R1-99k90	Panasonic	R2 C:R3,4	(Draft) Liaison Statement on Compressed Mode and the usage of common channel	Revised to R1-99/52	(*3) R1-99/52 was approved with no comments
11	R1-99/52	Panasonic	R2 C:R3,4	(Draft) Liaison Statement on Compressed Mode and the usage of common channel	R1-99/66	
12	R1-99k70	Siemens	R2,4	(Draft) response to WG2 LS on GSM measurement abilities for the UE	R1-99/53	No comments
13	R1-99k89	ad-hoc 9 chairman	R2,4	(Draft) Liaison statement on minimum UE transmit power	R1-99/55	(*4)
14	R1-99/19	ad-hoc 9 chairman	R2,3	(Draft) Liaison statement on minimum Eb/No range	R1-99/56	0 →0dB
15	R1-99k34	Nortel	R3	Liaison Statement on Changing the NodeB TPC Step Size after the Start of the Connection	R1-99/57	No comments
16	R1-99k35	Nortel	R3 C:R2	Answer To Liaison from WG3 on DPC Mode	R1-99/58	No comments
17	R1-99/11	Motorola	R2	(Draft) Response to the WG2 Liaison on LCS TA-IPDL Methods Performance	R1-99/60	No comments
18	R1-99k94	Nokia	R2	(Draft) Liaison statement on the inclusion of IPDL in the layer 1 specifications	R1-99/61	R1-99k16 shall be attached
19	R1-99/24	Lucent Ericsson Nokia Panasonic	R2	(Draft) Liaison on LCS (in response to liaison from WG2)	R1-99/62	(*5)
20	R1-99/18	Nortel	R2 SA4	(Draft) Reply to liaison statement on transmitting AMR Mode Command bits	R1-99/63	No comments
21	R1-99k44	Panasonic	R2 C:R3,4	(Proposed) Liaison statement on Error Correction Coding for FACH	R1-99/64	(*6)
22	R1-99/38	Nokia Telia	R4,RP C:R2	Liaison statement: CPICH SIR measurements in UTRA FDD	R1-99/38	No comments
23	R1-99/40	Samsung Siemens GBT	R2	(Proposed) response for LS on Channel Assignment for CPCH	R1-99/69	No comments
24	R1-99/54	NEC	R2, 3 C:R4	(Draft) Liaison statement on adjustment loop for DL power drifting	R1-99/71	(*7)
25	R1-99k95	Nokia	R4	(Draft) Liaison statement on performance of measurements in support of LCS	R1-99/72	No comments
26	R1-99k96	Nokia	R3	(Draft) Liaison Statement requesting action on TA-IPDL	R1-99/73	No comments
27	R1-99/49	LGIC Samsung	R3	(Proposed) LS on Higher Layer Signalling for Site Selection Diversity Transmission Power Control	R1-99/74	No comments

- (\*1) For TDD downlink, spreading factor 1 and 16 should be added.  
k40 answer LS on compressed mode postponed (E comments)
- (\*2) - In order to reflect the discussion made with **R1-99134** (See reference No.109), in the sentence of “CR for TS25.212 according to the above is approved in WG1.” the word “approved” should be replaced by “discussed” and sentence of “In order to avoid inconsistency between WG1 and WG2, WG1 would like WG2 to add transport block size = 0 bit to the range of transport block.” should be replaced by “In order to avoid inconsistency between WG1 and WG2, WG1 would like WG2 to clarify the situation of transport block size = 0 bit in the range of transport block.”
  - “In WG1#9, the followings are approved to measure BLER during DTX for the outer-loop power control” should be replaced by “In WG1#9, the followings are discussed to measure BLER of one transport channel during DTX of this transport channel for the outer-loop power control”
- (\*3) This should be written more simple way.  
It should be clarified that it is our assumption that there is no compressed mode on common channels, and when the UE is scheduled to make inter-frequency measurements, it is not possible for the UE to receive or transmit data on common channels.
- (\*4) -This should be applied to all UE power classes.
  - The latter sentence in the 2<sup>nd</sup> paragraph “It is the view of WG1 that the minimum transmit power should be decreased below the -44 dBm limit.” should be written as “RAN WG1 recognises the desirability of decreasing the minimum transmit power below the -44 dBm limit for all UE power classes.” because we are not sure we have a strong view that it must be reduced.
- (\*5) TS25.215-CR010 Revision 2 (R1-99L09) should be attached as Annex.
- (\*6) - As for the sentence “UE complexity could be reduced. For higher rate FACH the UE does not need to have a high-speed Convolutional decoder (2Mbps, 384kbps etc).”, do we need the complexity analysis ?
  - It’s probably obvious.
  - “WG1 is studying the introduction of this option for TDD.” should be added.
- (\*7) CR attached to this LS is old version. So NEC must prepare the LS which contains approved new version of CR. Tdoc for this revision is **R1-99/71**.

## 20. Other Topics

### **R1-99136 TR R1.04 v0.0.3 “Channel coding and multiplexing examples”**

Mr. Nakamura (NTT DoCoMo) made a presentation about the TR1.04.

In Hannover meeting it was approved that we should make this Technical Report. Mr. Nakamura distributed initial version (v.0.0.1) on the reflector on the Wednesday week before. He had received several comments and he made a presentation of revised points on the screen.

Chairman would present this to RAN just for information.

### **R1-99/ 41 “Proposal for extension of PIL for Turbo Codes, for block sizes smaller than 320bits ”**

Ms. Evelyne Le Strat (Nortel) made a brief presentation of R1-99/41

Nortel expressed their support to the extension of PIL for Turbo Codes, for block size less than 320bits. Nortel are currently evaluation an extention which would be fully consistent with the current PIL definition and would lead to a minimal increase of complexity. They will provide technical details of the proposal within next 10 days to WG1.

(Chairman’s comment)

This would be optional in release '99 and would be mandatory in release 2000.

## 21. Year 2000 plans in WG1 and reporting to TSG RAN

Items for the work in year 2000, but still part of release-99 (deadline 3/2000)

- TDD cell parameter cycling
- Out of synchronisation refinements
- Small turbo coding block sizes (Turbo interleaver below 320 bits)
- Compressed mode with puncturing (method A)
- CPCH issues
- DPCCH gating

Items scheduled for release 2000

- Hybrid ARQ (6/2000), updated to the specification (9/2000)
- FAUSCH
- TDD 1.28 Mchips/s
- TX diversity refinements (9/2000)

### WG1 meeting schedule in year 2000 (Tentative)

Meeting	Month	Date	Location	Notes
RAN WG1 #10	January	18-21	China	Host Nokia (*)
RAN WG1 #11	February	28 – March 3	USA	Host TIP1
RAN #7	March	13-15	Madrid, Spain	
RAN WG1 #12	April	10-14	Korea	Host TTA
RAN WG1 #13	May	22-26	Japan	
RAN #8	June	19-21	Dusseldorf, Germany	
RAN WG1 #14	July	3-7	Finland	Host Nokia
RAN WG1 #15	August	21-25	Germany	Host Siemens
RAN #9	September	25-27	Asia	
RAN WG1 #16	October	9-13	Korea	Host TTA
RAN WG1 #17	November	20-24		
RAN #10	December	11-13	USA	

(\*) Confirmed

### 22. Closing

WG1 #9 meeting was closed at 15:40 December 3<sup>rd</sup>

## Annex A : List of approved CRs

### TS 25.211

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	01	25.211	R1-99h47	Removal of superframe notation	Ericsson		6
2	002	-	25.211	R1-99g90	Use of CPICH in case of open loop Tx diversity	Nokia		20
3	003	02	25.211	R1-99i09	CPCH power control preamble length	Philips Nokia		25
4	005	01	25.211	R1-99/07	Editorial corrections	Ericsson		101
5	006	-	25.211	R1-99i47	Change to the description of TSTD for SCH	Ericsson		30
6	007	01	25.211	R1-99k79	Introduction of compressed mode by higher layer scheduling	Ericsson		63
7	008	01	25.211	R1-99j26	Modifications to STTD text	Texas Instruments		22
8	009	01	25.211	R1-99/21	20 ms RACH message length	Nokia		117
9	010	-	25.211	R1-99i49	Update to AICH description	Ericsson		31
10	011	01	25.211	R1-99j61	Sliding paging indicators	Ericsson		73
11	016	01	25.211	R1-99/29	TAB structure and timing relation for USTS	SK Telecom		130
12	017	-	25.211	R1-99k52	Timing for initialisation procedures	Philips		74
13	022	-	25.211	R1-99j05	Modification of the STTD encoding scheme on DL DPCH with SF 512	NEC		84

**TS 25.212**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	03	25.212	R1-99j97	Correction of rate matching parameters for repetition after 1st Interleaving in 25.212	Siemens LGIC		45
2	004	-	25.212	R1-99j11	Changing the initial offset value for convolutional code rate matching	LGIC		18
3	005	01	25.212	R1-99k80	Introduction of compressed mode by higher layer scheduling	Ericsson		64
4	008	-	25.212	R1-99h79	Editorial corrections to TS 25.212	Nokia		32
5	009	-	25.212	R1-99i53	Removal of SFN multiplexing	Ericsson		87
6	010	01	25.212	R1-99j25	Clarification of bit separation and collection	Ericsson		15
7	011	02	25.212	R1-99/26	Connection between TTI and CFN	Ericsson		115
8	012	02	25.212	R1-99/27	Zero length transport blocks	Ericsson		116
9	014	-	25.212	R1-99i58	Update of channel coding sections	Ericsson		119
10	016	-	25.212	R1-99i36	Removal of TrCH restriction in DSCH CCTrCH	Nokia		17
11	017	-	25.212	R1-99i38	20 ms RACH message length	Nokia		10
12	018	-	25.212	R1-99i59	Minimum SF in UL	Ericsson		90
13	024	-	25.212	R1-99k09	Rate matching parameter determination in DL and fixed positions	Mitsubishi		92
14	026	01	25.212	R1-99k43	Corrections to TS 25.212	Panasonic		120
15	027	-	25.212	R1-99k82	Modification of BTFD description in 25.212 Annex	NTT DoCoMo		65
16	028	-	25.212	R1-99k67	TFCI coding and mapping including compressed mode	Siemens LGIC ETRI Ericsson		61

**TS 25.213**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	005	01	25.213	R1-99k05	Harmonization of notations for downlink scrambling codes	Nokia		81
2	006	-	25.213	R1-99i60	Update of downlink spreading description	Ericsson		35
3	007	01	25.213	R1-99k12	Update of TS 25.213 uplink parts	Ericsson		83
4	008	-	25.213	R1-99i62	Updated modulation description	Ericsson		37
5	009	-	25.213	R1-99i00	Restriction for spreading factor 512 allocation in the UTRA FDD Downlink	Nokia		93
6	011	01	25.213	R1-99k83	CPCH codes in power control preamble	Philips		76
7	012	02	25.213	R1-99i67	Support of short codes for CPCH	GBT		134
8	014	01	25.213	R1-99i14	Editorial Change	GBT		125
9	016	-	25.213	R1-99i30	Channelization Code Allocation for USTS	SK Telecom ETRI		131
10	017	01	25.213	R1-99i15	Correction ( <del>Editorial Change</del> )	GBT		126
11	019	-	25.213	R1-99i12	Correction to code allocation for compressed mode	Ericsson		128



**TS 25.214**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	003	02	25.214	R1-99h89	Flexible timing of UTRAN response to uplink closed loop Tx diversity feedback commands	Nokia		21
2	006	02	25.214	R1-99i09	CPCH power control preamble length	Philips Nokia		26
3	007	-	25.214	R1-99i63	Removal of open loop power control	Ericsson		24
4	008	-	25.214	R1-99i64	Power offset of AICH and PICH	Ericsson		23
5	009	01	25.214	R1-99j37	Update of Random Access Procedure	Ericsson		8
6	010	01	25.214	R1-99i22	Soft symbol combining for uplink power control	Nokia		113
7	011	-	25.214	R1-99i02	Clarification of closed loop transmit diversity figure in section 8 and closed loop operation in compressed mode for mode 2 in section 8.3 of TS 25.214	Motorola		40
8	012	-	25.214	R1-99i66	Uplink power control maximum TX power	Ericsson		60
9	013	01	25.214	R1-99j91	Setting of beta values for multi-code	Ericsson		59
10	014	-	25.214	R1-99i11	Consolidation of CPCH Power Control Preamble Information	Philips		77
11	015	01	25.214	R1-99k51	Consolidation of Power Control Information for DCH Initialisation	Philips		57
12	016	-	25.214	R1-99i14	Uplink power control in compressed mode	Philips		41
13	018	01	25.214	R1-99k52	Timing for initialisation procedures	Philips		75
14	021	-	25.214	R1-99i40	20 ms RACH message length	Nokia		118
15	023	01	25.214	R1-99k69	Maximum Tx power at uplink compressed mode	Telia AB		56
16	024	02	25.214	R1-99k78	Setting of power in uplink compressed mode	Ericsson		58
17	025	-	25.214	R1-99j24	Cleanup of synchronisation procedures	Ericsson		38
18	026	02	25.214	R1-99i04	Downlink power control	Nokia		102
19	029	-	25.214	R1-99j59	Out-of-synch handling	Nokia		94
20	030	02	25.214	R1-99i70	State update rule addition to SSDT specification	NEC /Telecom MODUS		135
21	033	-	25.214	R1-99j76	Uplink TX timing adjustment	Ericsson		133
22	036	-	25.214	R1-99k16	Inclusion of idle periods for the IPDL LCS	Nokia Ericsson		78
23	041	-	25.214	R1-99j13	Revision of power control timing text	NEC		96
24	042	01	25.214	R1-99i59	Inclusion of adjustment loop in downlink power control	NEC		137

**TS 25.215**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	03	25.215	R1-99/42	Clarifications for compressed mode parameters	Nokia		121
2	002	-	25.215	R1-99i68	Definition of PCCPCH RSCP	Ericsson		66
3	003	-	25.215	R1-99i69	Definition of observed time difference to GSM cell	Ericsson		67
4	004	-	25.215	R1-99i70	Measurements are done on Primary CPICH	Ericsson		68
5	005	01	25.215	R1-99k81	Physical channel BER on DPCH	Ericsson		111
6	006	-	25.215	R1-99i72	Definition of SIR measurement	Ericsson		110
7	007	02	25.215	R1-99/01	Ranges and resolution of timing measurements	Ericsson		79
8	009	02	25.215	R1-99/10	Range and resolution for RF related measurements	Ericsson		103
9	010	02	25.215	R1-99/09	New sections: 5.1.15 – UE GPS Timing of Cell Frames for LCS; 5.2.8 UTRAN GPS Timing of Cell Frames for LCS	Lucent Technologies		80
10	011	-	25.215	R1-99i76	Removal of Annex A from TS 25.215	Ericsson		69
11	013	-	25.215	R1-99j22	Definition of Transmitted code power	Ericsson		70
12	014	02	25.215	R1-99/02	Range and resolution of BLER measurements	Ericsson		104
13	015	02	25.215	R1-99/02	Range and resolution of BER measurements	Ericsson		105
14	017	01	25.215	R1-99/50	CPICH SIR measurement	Telia AB		122
15	020	-	25.215	R1-99k28	Correction of SFN-SFN observed time difference	Ericsson		72
16	021	01	25.215	R1-99/03	CFN-SFN measurement with compressed mode	Nokia Ericsson		106

**TS 25.221**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	02	25.221	R1-99k56	Primary and Secondary CCPCH in TDD	Siemens Motorola Nokia		48
2	002	02	25.221	R1-99i81	Removal of Superframe for TDD	Siemens AG		5
3	006	-	25.221	R1-99i98	Corrections to TS25.221	Siemens		42
4	007	01	25.221	R1-99k61	Clarifications for Spreading in UTRA TDD	Nokia Siemens		112
5	008	-	25.221	R1-99k58	Transmission of TFCI bits for TDD	Siemens AG		98
6	009	-	25.221	R1-99k60	Midamble Allocation in UTRA TDD	Siemens Nokia		55
7	010	-	25.221	R1-99i68	Introduction of the timeslot formats to the TDD specifications	Nokia Siemens		136

**TS 25.222**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	03	25.222	R1-99j98	Correction of rate matching parameters for repetition after 1st Interleaving in 25.222	Siemens LGIC		46
2	002	01	25.222	R1-99k07	Clarification of bit separation and collection	Samsung LGIC		44
3	003	-	25.222	R1-99j12	Changing the initial offset value for convolutional code rate matching	LGIC		19
4	004	01	25.222	R1-99k04	Editorial corrections to TS 25.222	Nokia Siemens		82
5	007	-	25.222	R1-99i94	Update of rate matching rule for TDD	Siemens AG		49
6	009	01	25.222	R1-99i37	Modified physical channel mapping scheme	Nokia Siemens		100
7	013	-	25.222	R1-99k57	Introduction of TFCI for S-CCPCH in TDD mode	Siemens AG		54
8	015	-	25.222	R1-99k68	TFCI coding and mapping in TDD	Siemens LGIC		99

**TS 25.223**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	01	25.223	R1-99i85	Primary and Secondary CCPCH in TDD	Siemens AG		2
2	003	01	25.223	R1-99k62	Alignment of Terminology Regarding Spreading for TDD Mode	Siemens AG		50
3	004	-	25.223	R1-99j34	Code allocation for Case 3	Texas Instruments		47

**TS 25.224**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	01	25.224	R1-99i86	Primary and Secondary CCPCH in TDD	Siemens AG		3
2	002	-	25.224	R1-99h08	Measurement procedure of received reference power for OL-TPC in TDD	Panasonic		7
3	004	01	25.224	R1-99k84	STTD capability for P-CCPCH, TDD component	Motorola		52
4	005	01	25.224	R1-99k63	Alignment of Terminology Regarding Spreading for TDD Mode	Siemens AG		51

**TS 25.225**

No.	CR	rev.	TS	Tdoc	Title	Source	Notes	Ref.No.
1	001	01	25.225	R1-99i87	Primary and Secondary CCPCH in TDD	Siemens AG		4
2	002	01	25.225	R1-99k85	Block STTD capability for P-CCPCH, TDD component	Motorola		53
3	003	01	25.225	R1-99l43	Update concerning measurement definitions, ranges and mappings	Siemens		123

## Annex B : Participants List

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