

Mueller Exhibit 12

TSG-RAN Working Group 1 meeting No. 6

TSGR1-A58/99

July 13-16, Espoo, Finland

Agenda Item: -

Source: **Secretary (temporary)**

Title: **draft minutes**

Document for:

Draft Minutes for 3GPP RAN-TSG 6th WG1 Meeting

Meeting start: June 13th

Day 1, start 9.00

1. Opening of the meeting

Opening statement by the chairman.

2. Approval of agenda

Tdoc 780

Reviewed and some changes to AdHoc arrangements made to accommodate number of Tdocs and reports. Approved as amended.

3. Assignment of secretary (if not provided by 3GPP secretariat)

Meeting secretaries provided by Siemens. For day 1 is Peter Chambers.

4. Approval of the minutes of the last meeting

Tdoc 781. Minor change regarding sentence on RAN reporting.
Approved as amended. Minutes now become Tdoc 969.

5. Report from RAN no. 4 (by the chairman)

Tdoc 936 (slide set) presented by projector. (Relates to RP-99411.)

Change in working procedure, “agreed” items in a specification are by consensus, “working assumption” is not a consensus but is the current text. Approval status of documents only applies to “agreed” items. The items which are “working assumption” shall be marked. A rule for challenge was provided by the RAN, this to apply in future.

Nortel pointed out that there were still problems in working group work-split. Example is power control (WG1/WG4). Phillips queried the terms of reference of the “workshop” on hooks and extensions for harmonisation.

6. Identification of the incoming/ liaison statements,

Tdoc 784 (referred to Ad Hoc 4) from WG3 “Separate delivery of Transport Blocks within a Transport Block Set by MAC-d to L1”.

To await report from Ad Hoc 4.

Tdoc 785 from WG3 “LS on Principles on Uu specifications”.

WG3 requests that WG1 specifications no not refer to elements internal to the UTRAN for reasons of de-coupling specifications.

Noted.

Tdoc 803 from S4 codec working group “Support of Speech Service in RAN”.

The support of WG1 (amongst others) is requested to help define and comment on speech service in RAN. Critical items are channel coding and rate adaptation. This total task required by September 1999 for tests in 4Q99. Reply to be drafted indicating variety of ways speech may be mapped/formatted to physical channels (c.f. GSM) giving error patterns.

Tdoc 804 from S4 codec working group “Error resilience in real-time packet multimedia payloads”.

This gives details of an example multimedia stream in which requirements for error resilience are discussed for various parts. It is provided to further the debate on unequal error protection. Note that WG1 is only a “Cc” recipient of this LS.

Tdoc 902 draft (from Ericsson) toWG2 on location (LCS).

Tdoc 961 from WG2 "USCH requirement for TDD".
Refer to Ad Hoc 1.

Tdoc 962 from WG2 "Answer to LS on Physical Layer Baseline Capabilities".
Noted.

Tdoc 963 from WG2 reply to LS on "RACH Payload Requirements"
Concerns 20 octet payload figure. Payload is actually variable. Minimum payload 20 octets for FDD, to be examined for TDD.
Noted.

Tdoc 964 from WG2 "Logical and Transport channel on the Radio Interface for cell broadcast on UMTS". Note WG1 is Cc recipient and is not impacted.
Noted.

Tdoc 965 from WG2 on TS 25.302 according to RAN#4 decision WG1 should review this document at latest revision at this meeting. Important areas are: measurement, physical channel description, transport block sizes (Ad Hoc 4), simultaneous physical channel combinations (Ad Hoc 4) & dynamic rate matching (Ad Hoc 4). Ad Hoc 8 to discuss SFN measurement indicator parameter.
<reply to await arrival of latest 25.302 to this meeting>

Tdoc 947 from WG3 "Timing advance for TDD"
Can a purely L1 timing advance be done? WG3 wants to clarify what WG1 and WG2 see as necessary for timing advance procedure.
Refer to Ad Hoc 1.

Tdoc 966 from WG4 "TFCI requirements for services below 32 Ksps".
Should TFCI(OFF) be specified for rates below 32 Ksps?
Answer: support is mandatory as UTRAN commands the use of TFCI, not layer 1.
Draft to be produced during this meeting (E leStrat).

Tdoc ??? from WG4 on power control expected.

Tdoc 938 from T2 on Service Capabilities.
Lists some service capabilities (as in TS 22.105 also TS 22.121) and outlines priorities as

seen by T2. T2 requests that WG1 identify physical layer implementation capabilities required for these services by T2#5 starting September 6.

Draft reply to be produced during this meeting.

7. Text proposals pending for approval from the last meeting

(The ones decided to be pending until this meeting)

Tdoc 718 paging structure in TDD from Siemens. Vodafone asked how the PI/paging group was determined, clarification needed. Checking with WG2 should be done. Approved.

Tdoc 833 being TS 25.221v1.1.1

Consensus on matters in WG1#3 did not appear in editorial changes (in v1.0.1). This modification corrects that. This version is the new change baseline for WG1#6 as Tdoc 979, TS 25.221v1.2.0.

Approved.

8. Report from the harmonisation Ad Hoc (Ad Hoc 15) e-mail discussions

Tdoc 943. Slide presentation accompanying this presented by chairman (to be made available on CD). Aspects discussed or referred to Ad Hocs. Tdoc 968 contains some content on DPCCCH changes and service requirements which requires further discussion.

9. OHG Harmonisation agreement related inputs & text proposals

9.1 Changes due the chip rate change, FDD

Tdoc 832 (TS 25.211v2.1.1), marked up changes and editor's notes. Approved as Tdoc 982 (TS 25.211v2.2.0).

Tdoc 880 text proposal to chip rate change in TS 25.213. No conflicts with Tdoc 807. Approved. TS 25.213 to be updated accordingly after WG1#6.

Tdoc 791 modifies TFCI coding in TS 25.212. Approved.

Tdoc 921 SCH codes for harmonization (changes 25.213). Tdoc 923 modifies S-SCH mapping to slot/frame structure (changes 25.211 and 25.213). Approved.

Tdoc 786 modification to RACH in 25.211. Approved subject to further discussion in Ad Hoc 3 and caveats to specify timing in chips and clarify even/odd frame definition.

Changes to MIL (2nd) interleaver in TS 25.212 (& TS 25.222). There are three mutually exclusive text proposals concerning the inter-column permutation table.

Tdoc 926 (Silicon Automation Systems) MIL interleaver. Pruned table.

Tdoc 929 (DoCoMo) MIL interleaver. Optimised table.

Tdoc 978 (Nortel) MIL interleaver. Optimised table.

Discussion and questions concerned performance. Complexity was assumed to be approximately equal as the proposals are so similar and concerned column order amongst 30 columns.

Working assumption is Tdoc 929 (as per new RAN definition). For next meeting (WG1#7) contributions with performance values may be submitted to gain agreement (consensus) on 2nd interleaver specification. Submission deadline to be agreed offline.

Tdoc 876, coding for slow power control (NEC). This document proposes text changes to TS 25.214 to accommodate 15 slots and the use of CPICH.

Comment from Nortel that this channel coding should be in TS 25.212 and an LS to WG2 is needed to notify them of existence of Slow Power Control which is not in the MAC. The change in text was approved for strictly harmonisation purposes. Other issues referred to Ad Hoc 9.

Tdoc 925, Tx Diversity, referred to Ad Hoc 6.

Tdoc 843, SSTD, referred to Ad Hoc 6 as it deals with FBI bits.

The following two are mutually exclusive proposals on 15 slot pilot patterns which allow frame synchronisation confirmation.

Tdoc 829, pilot patterns (LGIC). Tdoc 830 is a text proposal derived from this.

Tdoc 866, pilot patterns (Samsung).

Deferred to Ad Hoc or offline discussion due to technical nature.

Tdoc 814, STTD (TI), changes TS 25.211. Accommodates 15 slot frame. Referred to Ad Hoc 6.

Tdoc 904, CPICH (Ericsson), changes TS 25.211. Also this TS needs updates in timing diagram and channel mapping. Some slight changes to the proposal are needed relating to the Tx Diversity sentence (delete "mode 1") (Ad Hoc 6 to comment on this aspect.). Change "the" to "a" throughout when referring to CPICH. These latter are left for the editor. Approved.

9.2 Changes due the chip rate change, TDD

Tdoc 852 for TS 25.221v2.2.1. Rounded values of time to be removed, chip values remain. Approved.

Tdoc 831 for TS 25.223v2.1.1. Changes due to chip rate 3.84Mcps. The FFS chip rates should be changed pro-rata (15/16). Remove mention of carrier spacing (WG4 responsibility). Approved.

Tdoc 853 for TS 25.224v1.0.0. Changes due to chip rate of 3.84Mcps and 15 slots plus

some minor editorial changes. Times should be mentioned to be approximate. Approved.
Tdoc 854 for TS 25.231v0.3.0. Changes due to chip rate of 3.84Mcps in TDD mode.
Proponent to provide electronic update in marked up text proposal form. Approved.

9.3 Changes from introduction of common pilot, FDD

Tdoc 868 list of open issues in WG1. This is a list of items identified for release 99 to be addressed by WG1 and Ad Hoc. Noted.

Day 2. Start 9.00

- 10. Ad Hoc sessions 9.00 – 12.30 (Lunch)**
Ad Hoc 3 RACH (08:30) (main room)
Ad Hoc 6 Tx-diversity (09:15)

- 11. Second session of Ad Hoc 13.30- 17.30**
Ad Hoc 9 Power Control (main room)
Ad Hoc 1 TDD

- 12. Third session of Ad Hoc. 19.30 – 22.30**
Ad Hoc 9 Power Control (main room)
Ad Hoc 1 TDD

DAY 3.

- 13. Ad Hoc session 8.30 – 12.30**
Ad Hoc 8 Handover
Ad Hoc 4 Multiplexing (main room)

Plenary 13:40

- 14. Reports from the Ad Hoc from Day 2 & 3.**

Note: Tdocs numbering greater than 999 will be named in form R1-99Axx (then R1-99Bxx) which may be written 10xx (then 11xx) within the document text. The naming

form is to maintain “8.3” compatibility for legacy IT systems as a matter of pragmatic judgement.

Tdoc A16 Ad Hoc 3 report, presented by AH3 chair. Approved.

Tdoc 790 Ad Hoc 6 report, presented by AH6 chair. Approved.

Note that as there are no text proposals relating to the statement in 2.3 (that TxAA is a working assumption) this does not actually affect the specifications in WG1 at this meeting.

Tdoc A05, Ad Hoc 1 report, presented by AH1 chair. Approved.

Note reference to “chapter 5.5” in the conclusion refers to section within 25.221.

It was noted that crosscheck with 25.302 was highly desirable (section 2.11).

Tdoc A09, Ad Hoc 9 report (not yet available).

15. Text proposals agreed in Ad Hocs

From Ad Hoc 3.

Tdoc 894, Ad Hoc 3, (Motorola) changes in 25.211, 25.213 to the RACH preamble code.

Note the text on the last page (4.3.3.1 of 25.213) “The phases 4096..42496” should read “The phases 4096..42495”. It is noted that 4.3.3.1 in 25.213 is a working assumption.

Approved as such.

Tdoc 932, (Ericsson), PAPER reduction of RACH preamble. Working assumption. Ericsson and editor of 25.213 to produce draft change from text proposal. Approved.

Tdoc (786) not required to re-approve this OHG matter.

Tdoc 897 (Panasonic) text proposal relating to timing of PRACH and AICH. Editorial matter relating to timing.

Tdoc 841 (Sony) text proposal to 25.214, prioritization of the RACH (by Access Service Class), working assumption. Approved.

Tdoc 788 (Nokia) text proposal for 25.211 & 25.214, available RACH access slots (sub-RACH channels), working assumption, some further consideration of details is needed as is an LS to WG2. Approved.

From Ad Hoc 6.

Tdoc 812 (Nokia), “Modification of TSTD on SCH Scheme” not true text proposal,

proponents to provide text proposal to editor (25.211) during this meeting. Approved.
Tdoc 814 (TI), “Modification of TSTD on SCH Scheme”, changes 25.211. Approved.
Tdoc 843 (NEC), “Change request for SSSD specification relating to OHG agreement”, changes 25.214. Approved.
Tdoc 925 (Motorola) “Text proposals for FB mode transmit diversity”, changes 25.211 & 25.214, also now it is proposed to move section 8.4 of 25.214 to informative annex (discussion in plenary, Phillips). Approved.
Tdoc A15 (Nokia) “Text proposal for modification of TSTD on SCH Scheme”, changes 25.221. Approved.

From Ad Hoc 1.

Tdoc 889 (Siemens), “Text proposal regarding TFCI coding for TDD”, changes 25.222. Approved.
Tdoc A03 ()
Tdoc 857 (Siemens) “Basic Midamble Codes for TDD Mode”, changes 25.221, amended as in Ad Hoc 1 report. (delete degradations dB column, put midambles in an annex). Approved.
Tdoc 859 (Siemens) “Scrambling Codes for TDD Mode”, changes 25.223, scrambling codes to move to annex. Approved.
Tdoc 860 (Siemens) “Proposed changes of Timing Advance Parameters for TDD”, changes 25.224, time values change to chip values. Approved.
Tdoc 941 (CWTS) “Text proposal for UL synchronization”, changes 25.224. Approved.
Tdoc 940 (CWTS) “Text proposal for beamforming in physical channels”, changes 25.221, modified by conclusions in Ad Hoc 1 report item 2.6. Approved as amended.
Tdoc 939 (CWTS) “Text proposal for low chiprate”, changes 25.223, references to carrier spacing to be referred to WG4 as Ad Hoc 1 report concludes. Approved.
Tdoc 998 (IDC, Siemens) “Proposed Text for TDD PRACH”, changes 25.221. Approved.
Tdoc A02 (Siemens) “Textproposal for the modified TDD PCH - revised”. Approved.
Tdoc A08 (IDC) “”, changes 25.224. Approved as working assumption with Annex 2 removed and other changes:

change definition of L_{CCPCH} to “ L_{CCPCH} : measure representing path loss in dB (reference transmit power is broadcast on BCH).”

Remove line “Adjusting SIR_{TARGET} by higher layer outer loop is described in Annex 2.”.

Remove Annex 2.

Approved as amended.

Tdoc 862 (Siemens) “Shared Channels for TDD Mode -Update”, changes 25.221. Approved.

Tdoc A04 (Siemens) “Textproposal for the Mapping between Midamble Offsets and Spreading Codes for RACH in TDD”, changes 25.221. Approved.

Tdoc A03 (Siemens) “Textproposal for an Extended Midamble – revised”, changes 25.221 & 25.222. Approved.

Liaisons

Tdoc 999, LS to WG3 on TDD. Approved. New Tdoc number will be obtained for approved text. Fredrik will co-ordinate LS.

Tdoc A10 LS to WG2 on Tx Diversity. Approved (with “draft” removed, and term “closed-loop” preferred to “feedback” mode).

Tdoc A14 LS to WG2 on TDD RACH. Approved.

Tdoc A11 (LGIC, Samsung) proponents agree to 15 slot pilot pattern in LGIC contribution Tdoc 830. Approved.

16. New contributions and not handled in the respective Ad Hoc earlier. (And with priority due to the milestones)

Tdoc 848 (Ericsson) “Updated text proposal for Paging Structure”, changes 25.211 & 25.212 (and suggests changes to 25.213 without explicit text proposal). It was queried (Phillips) that possibly the PICH could use SF=512, was this considered? This was not clearly possible to the proponents until the PI load could be dimensioned. Siemens pointed out that the total processing gain was already equivalent to 512. Phillips pointed out that paging load had not been a problem, if it was then perhaps more than one paging channel may be needed? Ericsson replied that operators had indicated varying estimates of load. Vodafone indicated GSM experience was that an MSC paged using all connected BSCs, paging by cell would involve excessive tracking & messaging. The UMTS equivalent should be considered. It was pointed out by GBT that there was no interleaving. The proponent replied that this worked against DRX/sleep-mode due to coherence time in the channel. Siemens pointed out that stationary mobiles would not benefit from interleaving. Nokia(Cardiff) asked if the mapping of PI to UE should be defined. The proponent replied that this could be done. Nokia(Toskala) asked if higher layers should be expected to do this (or should L1 do this)? The proponent would look into the matter of defining the mapping. It was pointed out that there was an error in the figure in 25.211 section 4.5.15.2, the gap should be between the PICH and S-CCPCH frames. This would

be corrected. Minor editorial matter, the timings should be given in chips. Question: how is the parameter N set? Answer: it is signaled as a system parameter. Approved as working assumption. Changes must be made by WG1#7 at the latest at which time this would default to an agreement.

Note: paging should be co-ordinated with WG2. Also paging in TDD had common elements with FDD paging. A group of drafters would work on an LS to WG2.

From Ad Hoc 10 (offline).

Tdoc 915 (Samsung) "Multiple-Scrambling Code". Formally presented to plenary. Ad Hoc 10 will consider offline. Proponent should attract support before WG1#7 to bring proposal for discussion there otherwise working assumption will stand.

Ad Hocs 14 & 8 (compressed mode) : 18:45 – 20:15

Ad Hoc 5 : 21:15 – 22:45

DAY 4. (Agenda item 16 may continue)

Ad Hocs 8.30 – 11.45.

Ad Hoc 14 & Ad Hoc 5

Plenary : 12:45

Tdoc 944 (RAN ITU Ad Hoc) "Draft overview text of the FDD DS-CDMA radio interface to be inserted in ITU-R IMT.RSPC". Comments requested from working groups. Address comments to WG1 and ITU Ad Hoc reflectors please. Comment from Ad Hoc 1 chair, TDD is not included. ITU Ad Hoc understands this and TDD material was not available before this time. Noted.

Reports from Ad Hocs

Tdoc A09 Ad Hoc 9 report, presented by AH9 chair. Panasonic noted that comparison with performance gain by 0dB command should be made only w.r.t. algorithm 1 (no disagreement was voiced with this point). Two LS were produced from the Ad Hoc, Tdoc A44 and Tdoc A45. Approved.

Tdoc A50 Ad Hoc 8 report, presented by AH8 chair. Noika pointed out that text from Tdoc 810 could be added to the standard. AH8 chair said there was substantial agreement. An unified text proposal would be welcome at WG1#7. Approved.

Tdoc A12 Ad Hoc 4 report, presented by AH4 chair. Approved.

Text proposals from Ad Hoc

From Ad Hoc 8.

Tdoc A00 (Noika), “Monitoring FDD cells on same frequency”, changes TS 25.231. Approved.

Tdoc 844 (Ericsson) “Cell timing measurement for soft handover”, changes TS 25.211 & TS 25.231. Siemens pointed out that approved Tdoc 897 has some sections which 844 removes. Proponent notes this was AICH timing in 897 and the section can be removed. Phillips asks for diagram to be moved to informative annex. Proponent agrees this is possible. Nokia noted that a reference would be the best idea, this was agreed. Approved.

Tdoc A35 (DoCoMo) “Timing information between cells”, changes TS 25. 25.231. Approved.

Tdoc A32 (Nokia) “Fixed duplex spacing”, changes TS 25.212 & TS 25.231. Approved.

From Ad Hoc 4.

Tdoc 997 (DoCoMo) “Rate matching parameters”, changes TS 25.212 & TS 25.222. Approved as working assumption (further optimisation will be considered).

Tdoc 878 (Nokia) “DTX insertion”, changes TS 25.212. Approved.

Tdoc 892 (Samsung) “Detailed descriptions of Radio frame segmentation to 2nd interleaver”, changes TS 25.212. Noika pointed out that TS 25.222 should be changed for TDD. Editor to be consulted. Approved.

Tdoc 877 (Nokia) “CCTrCH transmission”, changes TS 25.211. Approved with note 1 removed.

Tdoc 809 (Nokia, Ericsson) “An addition on DCH channel coding to support UEP”, changes TS 25.212 & TS 25.222. Lucent noted an assumption in change to section 6.2.3 relating to block size and NRT. Ericsson noted that this text was not actually a change, so a new text proposal would be needed to affect this. Approved.

Tdoc 885 (Ericsson) “Multi-code description in 25.211 and 25.212”. Approved.

Tdoc A36 (DoCoMo) “SFN coding scheme”, changes TS 25.212. Approved.

From Ad Hoc 9.

Tdoc A39 (drafting group) “power control”, changes TS 25.214. Approved.

LS from Ad Hoc

Tdoc A42(=>A60) to WG4 “Physical layer measurements”. Approved.

Tdoc A38(=>A63) to WG2 & WG3 “Length of SFN”. Nortel noted that the SFN interacts strongly with WG2 concerns, it may not be L1 information (not on a physical channel) (though SFN should be available on every BCH system information message). It should be clarified with WG2 what the split is. Ericsson said that an LS on just the length of SFN should be OK. A note asking WG2 if the SFN can be protected was suggested. “WG1 wishes to have a CRC applied to this information together with the BCH transport blocks and WG1 would like to receive information from WG2 whether WG2 sees a problem with this.” Approved.

Tdoc A51(=>A62) to WG2 “Draft answer to Liaison statement on TS 25.302, ‘Services provided by the Physical Layer’”. Siemens wished to remove third bullet point in section 9. Approved as modified.

Tdoc A45 to WG4 “closed loop power control in FDD”. Modified by changes to 25.214 during WG1#6. Approved.

Tdoc A53 to WG2 & WG3 “power control”. Approved.

Tdoc A44 to WG4 “TFCI for rates below 32Kbps”. Approved.

Tdoc A17(=>Axx) to WG2 cc T2 “USCH for TDD”. Approved.

Tdoc A22 to WG2 “Reply to LS on RACH prioritisation”. Approved.

Tdoc A33 to WG3 "Separate Delivery of Transport Blocks within a Transport Block set by MAC-d to L1". Approved.

Tdoc a49 to ??? "Liaison Statement requesting on views on the envisaged impact of DPCCCH gating of UE when in Control Only State". Approved

17. Text proposals produced for approval

18. Milestone evaluation

Meeting the milestones and possible deviations (i.e. delays), priority topics for the next meeting.

19. Other business

Announcement of two new Ad Hocs.

Ad Hoc 16 on measurements

Ad Hoc 17 on positioning

20. Closing (Day 4, closing 15.00 at the latest or 15:43 if later)

Annex A - Register of Attendees

Name	Company
Aksentijevic Mirko	Nokia
Asanuma Yutaka	Toshiba
Bafael Zack	DSPC Technologies
Belaiche Vincent	Mitsubishi
Beongjo Kim	Samsung
Berberana Ignacio	Telefonica
Berens Friedber	ST Microelectronics
Bernocco Carlo	Italtel
Bhatoolaul David	Lucent Technologies
Bishop Craig	Samsung
Brown Tyler	Motorola
Burbidge Richard	Motorola
Cardiff Barry	Nokia
Chambers Peter	Siemens
Changsoo Park	Samsung
Chia Stanley	Airtouch
Cho Sungho	Hyundai Electronics
Chongwon Lee	Hyundai Electronics
Clop Oscar	Motorola
Corden Ian	Lucent Technologies
Da Rocha Alexandre	Alcatel
Dahlman Eric	Ericsson
De Beneaittis Rossella	Italtel
De Pasquale Andrea	Omnitel
Dick Steve	InterDigital Communications
Dong Do Lee	SK Telecom
Drakul Spase	Lucent Technologies
Edwards Keith	Nortel Networks
Elmer Yuen	Golden Bridge Technology
El-Saigh Amer	Vodafone Limited
Folacci Paul	Texas Instruments
Furukawa Hiroshi	NEC
Futakata Toshiyuki	NTT DoCoMo
Gabin Frederic	Nortel
Garg Hari Krishna	Philips
Ghosh Amitava	Motorola
Hallam-Baker Nick	Symbionics
Harada Koichi	DoCoMo Europe
Harrold Colin	British Telecom
Heewon Kang	Samsung
Heinle Frank	Philips Semicondutores
Henriksson Anders	Telia AB
Higashi Akihiro	NTT DoCoMo

Hiramatsu Katsuhiko
Hong Sung Kwon
Hubert Roll
Hunt Bernard
Hyenwoo Lee
Jaakola Jukka
Jaeyoel Kim
Jan Meyer
Jang Jaesung
Jansen Michel
Jechoux Bruno
Jinsung Choi
JoeHeung Kim
Jurgen Michel
Jurgensen Jens-Uwe
Kahtava Jussi
Kaisu Iisakkila
Kanterakis Emmanuel
Kasapidis Makis
Kato Osamu
Kenji Ito
Kirimura Mat
Kistowski Dirk
Klein Anja
Kourosh Parsa
Kowalewski Frank
Kwon Sung Lark
Laukkanen Mika
Le Dantec Claude
Le Strat Evelyne
Lee Jung Ah
Lee Yuro
Lehtinen Otto
Losh Jason
Malkamaki Esa
Mangold Peter
Masahiro Uno
Meyer Klaus
Min-Goo Kim
Mochizuki Takashi
Mohebbi B.
Mousley Tim
Murai Hideshi
Nakamura Takaharu
Nakamura Takehiro
Narvinger Per
Nausshan Markus
Newett Stephen

Panasonic
LGIC
Rohde&Schwarz
Philips
Samsung
Nokia
Samsung
Lucent Technologies
Samsung
Ericsson
Mitsubishi Electric
LGIC
ETRI
Siemens
Sony Corporation
Nokia
Nokia
Golden Bridge Technology
Panasonic
Panasonic
Siemens
Japan Radio Company
T-Mobil
Siemens
Golden Bridge Technology
Bosch
LGIC
Nokia
Canon
Nortel Networks
Lucent Technologies
Hyundai Electronics
Nokia
Motorola
Nokia
Bosch
Sony Corporation
Advanced Micro Devices
Samsung
NEC
Fujitsu Europe
Philips
Mitsubishi Electric
Fujitsu
NTT DoCoMo
Ericsson
Siemens
MITEL Semiconductors

Nilsson Martin	Allgon System AB
Nobutaka Okuyama	LSI Logic
Oestreich Stefan	Siemens
Okumura Yukihiko	NTT DoCoMo
Ovesjo Fredrik	Ericsson
Palenius Torgny	Ericsson Mobile Communications
Pascal Agin	Alcatel
Pehkonen Kari	Nokia
Perrin Jean-Hugues	Alcatel
Piccinonno Fulvio	Telital
Plechinger Jorg	Infineon Technologies
Purat Marcus	Siemens
Rikkinen Kari	Nokia
Rudolf Marian	Mitsubishi Electric
Salonaho Oscar	Nokia
Satoshi Yoshida	VLSI Technology
Schilling Don	Golden Bridge Technology
Schuffenecker Bruno	France Telecom
Seidel Eiko	Panasonic European Lab
Seungchan Bang	ETRI
Shigenori Kinjo	Texas Instruments
Steudle Ville	Nokia
Stirling-Gallacher Richard	Sony International (Europe)
Suzuki Hiedotishi	Panasonic
Suzuki May	Hitachi
Syang-Myan Hwang	Cadence Design Systems
TaeJoung Kim	ETRI
Tatsumi Akinori	Panasonic
Toskala Antti	Nokia
Truelove Stephen	Telecom Modus
Tsunehara Katsuhiko	Hitachi
Uesugi Mitsuru	Panasonic
Ukomaanaho Mauri	Nokia
Ulrich Thomas	Siemens
Whinnett Nick	Ericsson
Wilde Anderas	Nippon Ericsson
Volker Sommer	Siemens
Yamamoto Kazushi	Mitsubishi Electric
Yoshinori Tanaka	Fujitsu Laboratories
Youngjoon Song	LGIC
Yun Young Woo	LGIC
Zelmer Donald	BellSouth Cellular Co.
Ziera Eldad	InterDigital Communications

Annex B - Tdocs (from 780 onwards)

R1-99780	Agenda	Chairman
R1-99781	Draft minutes of the RAN1 meeting#5	Secretary
R1-99782	Further results on channel estimation for TDD using pilot symbols	Texas Instruments
R1-99783	text proposal to remove pulse shaping from 25.213	Peter Chambers
R1-99784	LS on Separate delivery of Transport Blocks within a Transport Block Set by MAC-d to L1	TSG RAN WG3
R1-99785	LS on Principles on Uu protocol specifications	TSG RAN WG3
R1-99786	Modifications to RACH transmission due to chiprate change	Nokia
R1-99787	Available PRACH and AICH access slots, with new chiprate	Nokia
R1-99788	Text proposal, available RACH access slots (method 1)	Nokia
R1-99789	Text proposal, available RACH access slots (method 2)	Nokia
R1-99790	Ad Hoc #6 report to RAN WG1 meeting #6	Ad Hoc #6
R1-99791	Encoding of TFCI for 15 slots per frame	Nokia
R1-99792	(1) Modified text proposal for secondary synchronization codes (SSC)	
R1-99793	(2) Masking the SSC's to improve their aperiodic cross correlation	
R1-99794	Service dependent terminal capabilities	Telia AB
R1-99795	proposed CPCH-related changes to 25.211	GBT
R1-99796	proposed CPCH-related changes to 25.214	GBT
R1-99797	proposed CPCH-related changes to 25.212	GBT
R1-99798	CPCH Procedures	GBT
R1-99799	CPCH-related issues and concerns	GBT
R1-99800	Use of CPICH for acquisition (presentation)	GBT
R1-99801	CPICH Simulations (acquisition performance)	GBT
R1-99802	Firm Handover Complexity	GBT
R1-99803	LS to R1, R2, R3 on Support of Speech Service in RAN	TSG-S4
R1-99804	Liaison statement to S2, S2 QoS SWG, R3, Cc: R1, R2, on Error resilience in real-time packet multimedia payloads	TSG-S4
R1-99805	Text proposal for Encoding blocks for Turbo code	Nokia
R1-99806	Text proposal for the figure of a downlink scrambling code generator	Nokia
R1-99807	Text proposal on long scrambling codes for 3.84Mcps	Nokia
R1-99808	Compressed mode by puncturing method - TFCI transmission	Nokia
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R1-99812	Modification of TSTD on SCH Scheme	Nokia
R1-99813	Corrected text proposal for secondary synchronization codes (SSC's)	Texas Instruments
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R1-99816	CPCH Channel Allocation	InterDigital
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R1-99818	RACH Capacity Analysis-Packet 1	InterDigital
R1-99819	Simulation of Forward Error Correction for TDD RACH	InterDigital
R1-99820	Improved performance and downlink code use for CPCH	Philips

R1-99821	Optimum Power Control Step Size in Normal Mode	Philips
R1-99822	Optimum Recovery Period Power Control Algorithms for Compressed Mode	Philips
R1-99823	Update of FAUSCH scheme and text proposal	Philips
R1-99824	Improved performance and downlink code use for CPCH	Philips
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R1-99830	Text Proposal of Pilot Patterns Considering Harmonization	LGIC
R1-99831	TS 25.223 Spreading and modulation(TDD) v2.1.1	Editor
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R1-99836	reserved for PD	Editor
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R1-99841	Text proposal for 25.214 concerning prioritisation of RACH	SONY Europe
R1-99842	New scheme for downlink compressed mode using common channel	Hyundai Electronics/Shinsegi Telecomm
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R1-99845	Uplink channelization code allocation in UTRA/FDD	Ericsson
R1-99846	Specification of time values in UTRA/FDD	Ericsson
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R1-99848	Updated text proposal for paging structure	Ericsson
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R1-99863	Proposal for PCH Modifications in TDD	Siemens
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R1-99884	New downlink scrambling code grouping scheme for UTRA/FDD, revised	Ericsson
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R1-99905	? Performance loss in uplink due to compressed mode, revised	Ericsson
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R1-99907	Simulation Results of Downlink Puncturing Algorithms	LGIC
R1-99908	Code Symbol Based Uplink Puncturing Algorithms	LGIC
R1-99909	Comments on uplink puncturing algorithm	LGIC
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R1-99914	Text proposal for TFCI coding	SAMSUNG electronics co
R1-99915	Multiple-scrambling code	SAMSUNG electronics co
R1-99916	Text proposal for multiple-scrambling code	SAMSUNG electronics co
R1-99917	Battery Savings using Joint Predistortion	Bosch
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R1-99919	Unified rate matching scheme for Turbo/convolutional codes and up/downlink	SAMSUNG electronics Co
R1-99920	Blind rate detection for Turbo codes	SAMSUNG electronics Co
R1-99921	SCH codes for Harmonization	Texas Instruments
R1-99922	Revised text for the Rapid Initial Synchronization of the DCH for Packet Data	Motorola-NSS
R1-99923	Secondary SCH structure for OHG harmonization: Simulations and Text Proposal	Texas Instruments.
R1-99924	Phase shift scheme for feedback mode transmitdiversity	Panasonic
R1-99925	Text proposal for modification on Feedback Signaling Message	Texas Instruments
R1-99926	Text proposal for 2nd interleaving	Silicon Automation Systems
R1-99927	Updated text proposal for Turbo code internal interleaver	NTT DoCoMo, Nortel Networks, SAMSUNG Electronics Co.
R1-99928	ANSI C-language program for Turbo code internal interleaver	NTT DoCoMo
R1-99929	Modified Multistage InterLeaver (MIL) fit for 15-slot frame	NTT DoCoMo
R1-99930	Performance evaluations on modified MIL fit for 15-slot frame	NTT DoCoMo
R1-99931	Complexity analysis on modified MIL fit for 15-slot frame	NTT DoCoMo
R1-99932	RACH preamble PAPR reduction	Ericsson
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R1-99946	Alternative Uplink Puncturing Algorithm	LGIC
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R1-99949	ad-hoc 9 report on activities until WG1#6	ad-hoc 9 chairman
R1-99950	Rate matching puncturing for 8-PCCC and convolutional code	Nortel Networks
R1-99951	Down Link Power Control during Soft Handoff	Nortel Networks
R1-99952	A method to classify the interleaved symbols of 1'st MIL interleaver using some property	SAMSUNG electronics Co
R1-99953	Proposals of Timing Information between Cells	NTT DoCoMo
R1-99954	Examples of detailed channel coding	NTT DoCoMo
R1-99955	SFN coding scheme	NTT DoCoMo
R1-99956	Improvement of outer-loop power control in compressed mode	Alcatel
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R1-99958	Alternative Puncturing Algorithm for Uplink	LGIC
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R1-99961	LS to WG1 and T2 on USCH requirement for TDD	TSG RAN WG2
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R1-99963	Reply to TSGR2#5(99)532 (TSGR1#5(99)758) on RACH Payload Requirements	TSG RAN WG2
R1-99964	Liaison statement on chosen Logical and Transport Channel on the Radio Interface for Cell Broadcast Service in UMTS	TSG RAN WG2
R1-99965	Liaison statement on TS 25.302, 'Services provided by the Physical Layer'	TSG RAN WG2
R1-99966	LS to TSG RAN1 on TFCI requirements for services below 32 Kbps	TSG RAN WG4
R1-99967	Optimum Rate Matching of Turbo/convolutional Coding for 3GPP Up/Down Links	Nortel Networks
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R1-99973	Performance evaluation of combined outer loop / weighted open loop scheme for uplink power...	Inter Digital
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R1-99989	Power control scheme adapted to channel variations	SK-Telecom
R1-99990	Golay-Hadamrd Sequence Based RACH preamble Design for Nortel Networks Large Cell (Part-1 Algorithm)	
R1-99991	Support of speech in UTRA FDD mode	Nortel Networks
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R1-99a07	Additional compressed mode parameters for GSM search	Siemens
R1-99a08	Text proposal for 25.224 (Update of 974)	InterDigital
R1-99a09	Ad Hoc 9 report	Ad Hoc 9 chair
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R1-99a11	Results of pilot pattern discussion.	LGIC & Samsung
R1-99a12	Ad Hoc 4 report	Ad Hoc 4
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R1-99a15	Text proposal for modifications TSTD on SCH scheme	Nokia
R1-99a16	Ad Hoc 3 report	Ad Hoc 3 report
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R1-99a18	Results for new trellis termination for turbo codes	VLSI
R1-99a19	Liaison on TDD timing advance to WG3	WG1
R1-99a20	Summary on the "turbo code" proposal for all data rates, block sizes and quality of service: Performance/Complexity trade-off.	Lucent Technologies & Nortel Networks

R1-99a21	Ad Hoc 10 report?	Ad Hoc 10
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R1-99a28	reserved	IDC
R1-99a29	Text proposal for OVSF allocation with variable rate DSCH Nokia operation	
R1-99a30	Unified rate matching scheme for turbo code in both uplink Samsung and downlink	
R1-99a31	Updated text proposal for turbo code internal interleaver	NTT DoCoMo, Nortel Networks, Samsung
R1-99a32	Revised text changes to 25.212 & 25.231 for fixed duplex spacing terminals	Nokia
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R1-99a36	Text proposal of SFN coding scheme	NTT DoCoMo
R1-99a37	Liaison statement on length of SFN	NTT DoCoMo
R1-99a38	Text proposal for section 7 in 25.214	NTT DoCoMo
R1-99a39	Text proposal on power control	Drafting Group
R1-99a40	Proposed Liaison to T2 on service implementation capabilities	WG1
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R1-99a46	Proposed CPCH-related insertions into 25.213	GBT
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R1-99a48	Proposed CPCH-related insertions into 25.211	GBT
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R1-99a50	Ad Hoc 8 report	Ad Hoc 8 chair
R1-99a51	Draft answer to the liaison statement on service provided by the physical layer (check)	drafting group
R1-99a52	reserved	InterDigital
R1-99a53	Liaison on power control	Nortel Networks
R1-99a54	Draft Agenda for the WG1 No. 7	WG1 chairman
R1-99a55	Complexity of Nortel Turbo Code Puncturing Scheme	Nortel Networks
R1-99a56	Analysis of commnalities of Turbo code puncturing rate matching proposals	Nortel Networks
R1-99a57	Text proposal for rate 1/2 Turbo Encoder	Nortel Networks
R1-99a58	Draft meeting minutes from TSG RAN WG1 No. 6	Temporary secretary
R1-99a59	Draft liaison statement on support of speech service in RAN	Nortel Networks
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R1-99a61	Text proposal for rate matching algorithm for turbo codes	LGIC, Samsung et al.
R1-99a62	Answer to liaison statement on TS25.302, Services Provided by The physical Layer	WG1
R1-99a63	Approved liaison statement on length of SFN	WG1
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