# TSG-RAN Working Group 1 meeting No. 7 30 Aug-3 Sep, Hannover, Germany

Agenda Item: 4

Source: Secretary (temporary)

Title: revised minutes of WG1#6

Document for: acceptance

## 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 Philips requested clarification of the terms of reference of the "workshop" on hooks and extensions. The chairman indicated that it would address extensions needed 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 sevices 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 DPCCH 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 (2<sup>nd</sup>) 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 2<sup>nd</sup> 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, SSDT, 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 Hocs. 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 Hocs 13.30- 17.30 Ad Hoc 9 Power Control (main room) Ad Hoc 1 TDD
- 12. Third session of Ad Hocs. 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 Hocs 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), PAPR 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 SSDT 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, Phi-lips). Approved.

Tdoc A15 (Nokia) "Text proposal for modification of TSTD on SCH Scheme 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  $L_{\text{CCPCH}}$  to " $L_{\text{CCPCH}}$ : measure representing path loss in dB (reference transmit power is broadcast on BCH)."

Remove line "Adjusting SIR<sub>TARGET</sub> by higher layer outer loop is described in Annex 2.".

Remove Annex 2.

Approved as amended.

Tdoc 862 (Siemens) "Shared Channels for TDD Mode - ,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 TxDiversity. 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 Hocs 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 Hocs**

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 Hocs

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 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 DPCCH 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
	Samsung
Beongjo Kim 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 lan	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 Semicondutors
Henriksson Anders	Telia AB
Higashi Akihiro	NTT DoCoMo

Hiramatsu Katsuhiko Panasonic Hong Sung Kwon LGIC

Hubert Roll Rohde&Schwarz

Hunt Bernard Philips
Hyenwoo Lee Samsung
Jaakola Jukka Nokia
Jaeyoel Kim Samsung

Jan Meyer Lucent Technologies

Jang Jaesung
Jansen Michel
Samsung
Ericsson

Jechoux Bruno Mitsubishi Electric

Jinsung Choi LGIC
JoeHeung Kim ETRI
Jurgen Michel Siemens

Jurgensen Jens-Uwe Sony Corporation

Kahtava Jussi Nokia Kaisu lisakkila Nokia

Kanterakis Emmanuel Golden Bridge Technology

Kasapidis Makis
Kato Osamu
Panasonic
Kenji Ito
Siemens

Kirimura Mat Japan Radio Company

Kistowski Dirk
Klein Anja
T-Mobil
Siemens

Kourosh Parsa Golden Bridge Technology

Kowalewski Frank
Kwon Sung Lark
Laukkanen Mika
Le Dantec Claude

Bosch
LGIC
Nokia
Canon

Lee Strat Evelyne
Lee Jung Ah
Lee Yuro

Nortel Networks
Lucent Technologies
Hyundai Electronics

Lehtinen Otto
Losh Jason
Malkamaki Esa
Mangold Peter
Nokia
Nokia
Bosch

Masahiro Uno Sony Corporation

Meyer Klaus Advanced Micro Devices

Min-Goo Kim Samsung Mochizuki Takashi NEC

Mohebbi B. Fujitsu Europe

Mousley Tim Philips

Murai Hideshi Mitsubishi Electric

Nakamura Takaharu Fujitsu

Nakamura Takehiro NTT DoCoMo Narvinger Per Ericsson Nausshan Markus Siemens

Newett Stephen MITEL Semiconductors

Nilsson Martin Allgon System AB

Palenius Torgny Ericsson Mobile Communications

Pascal Agin
Pehkonen Kari
Nokia
Perrin Jean-Hugues
Piccinonno Fulvio
Alcatel
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
Tatsumi Akinori
Toskala Antti
ETRI
Panasonic
Nokia

Truelove Stephen Telecom Modus

Tsunehara Katsuhiko
Uesugi Mitsuru
Ukomaanaho Mauri
Ulrich Thomas
Whinnett Nick
Hitachi
Panasonic
Nokia
Siemens
Ericsson

Wilde Anderas Nippon Ericsson

Volker Sommer Siemens

Yamamoto Kazushi
Yoshinori Tanaka
Mitsubishi Electric
Fujitsu Laboratories

Youngjoon Song
Yun Young Woo
LGIC

Zelmer Donald BellSouth Cellular Co.

Ziera Eldad InterDigital Communications

## Annex B - Tdocs (from 780 owards)

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	transmission	Nokia
R1-99809	An addition on DCH channel coding to support UEP	Nokia & Ericsson
R1-99810	Handovers	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)	
R1-99814	STTD encoding of PCCPCH and 8 KSPS channels for harmonization	
R1-99815	A New Comma Free Code Scheme for TDD Synchronization	Texas Instruments
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R1-99818	RACH Capacity Analysis-Packet 1	InterDigital
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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
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R1-99826	Fast Layer 1 Acknowledgement for FAUSCH	Philips
R1-99827	Comparison of preamble modulation schemes	ETRI
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R1-99829	New Pilot Patterns for 15 Slots Considering Harmonization	LGIC
R1-99830	Text Proposal of Pilot Patterns Considering Harmonization	LGIC
R1-99831	TS 25.223 Spreading and modulation(TDD) v2.1.1	Editor
R1-99832	TS 25.211 V2.1.1	Editor
R1-99833	Document TS25.221 v1.1.1	Editor
R1-99834	reserved for PD	Editor
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R1-99836	reserved for PD	Editor
R1-99837	reserved for PD	Editor
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R1-99839	reserved for PD	Editor
R1-99840	reserved for PD	Editor
R1-99841	Text proposal for 25.214 concerning prioritisaton of RACH	SONY Europe
R1-99842	New scheme for downlink compressed mode using common channel	Hyundai Electronics/Shinsegi Telecomm
R1-99843	Change request for SSDT specification relating to OHG agreement	NEC Corporation
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R1-99845	Uplink channelization code allocation in UTRA/FDD	Ericsson
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R1-99848	Updated text proposal for paging structure	Ericsson
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R1-99867 Maximum turbo coding block size(This contribution was withdrawn by proponent)	
R1-99868 Comments on TS25.211,TS25.212,TS25.213" (Tentative)  Additional open issues to be discussed in R1  Panasonic.Japan T  Sharp, Texas Instru	elecom, Mitsubishi,
R1-99869 Further clarifications to the gain for the DPCCH gating in SAMSUNG electron COS	nics co.
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K1-99905	revised	LIICSSOII
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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
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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
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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
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R1-99959	Further Results on Emulation of Small Power Control Steps (Revised)	Philips
R1-99960	Performance results for FAUSCH	Philips
R1-99961	LS to WG1 and T2 on USCH requirement for TDD	TSG RAN WG2
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R1-99964	Liaison statement on choosen Logical and Transport Channel on the Radio Interface for Cell Broadcast Service in UMTS	TSG RAN WG2
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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
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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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