



# TSG-RAN#11 Meeting Report

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# General

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- ✍ New Officials are elected
  - ✍ Around 170 Participants
  - ✍ 279 Contributions
  - ✍ Release '99: 403 CRs handled;  
Also 1 TR approved
  - ✍ Release 4: 123 CRs handled;  
Also 2 TSs and 18 TRs approved
  - ✍ Full 4 days meeting
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## RAN statistics in year 2001

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Plenary: CRs-526, Tdocs-279

✍ WG1: CRs-61, Tdocs-425

✍ WG2: CRs-165, Tdocs-775

✍ WG3: CRs-200, Tdocs-1100

✍ WG4: CRs-100, Tdocs-465

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# RAN WG1 (R'99)

- ✍ A total of 42 (49) CRs were submitted and approved
- ✍ Main work in WG1 has moved to releases 4,5...
- ✍ CR:Phase Reference for Secondary CCPCH carrying FACH was agreed to be a CR on R'99, although it was proposed for Rel4 originally (Doc RP-010255)



## RAN WG2 (R'99)

- ✍ A total of 138 (137) CRs were submitted and approved
- ✍ Corrections on RRC is decreasing, but still many
- ✍ Time spent on R'99 is decreasing, but still more than 50%
- ✍ CR on security was approved after long discussion



## RAN WG3 (R'99)

- ✍ A total of 139 (217) CRs were submitted and approved
- ✍ All CRs are backward compatible
- ✍ Most problems were solved. WG3 can allocate time on Release 4 and after
- ✍ Some terminologies are redefined



## RAN WG4 (R'99)

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- ✍ 84 (67) CRs were submitted and approved
- ✍ Proposed CR to 25.141 on Regional requirements for Test Tolerances was approved to contain Japanese regulatory requirements



# ITU Ad Hoc

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- ✍ Nicola Magnani volunteered to continue ITU Ad Hoc contact person and agreed
- ✍ Procedure on IMT2000 update was proposed by ITU Ad Hoc and agreed



# MCC staff workload

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- ✍ Still, workload for MCC staff is very high, especially for WG2, WG3
- ✍ ARIB offered some support as short term solution.
  - ✍ Activity is ongoing, working well.
  - ✍ ARIB plans to continue support



# Release 4 approved WIs

- ✍ UTRA FDD Repeater Specification
  - ✍ TSs 25.106 and 25.143 are approved
  - ✍ All the related CRs are approved
- ✍ RRM optimization for Iur and Iub
  - ✍ Some work tasks are approved
  - ✍ This WI remains for Rel-5 as BB
- ✍ PS-Domain Handover for real-time services
  - ✍ TR and CRs are approved



# RAB Quality of Service Negotiation/Renegotiation over Iu

- ✍ RAB Quality of Service Negotiation over Iu was approved in RAN although SA2 sent a liaison not to include it in Rel-4
- ✍ RAB Quality of Service Re-negotiation over Iu was approved
- ✍ RAB Quality of Service Negotiation over Iu during relocation was proposed and approved for Rel-4
- ✍ All the TRs and CRs related to above are approved



## Evolution of the transport in the UTRAN

- ✍ QoS optimization for AAL type 2 connections over Iub and Iur interfaces
  - ✍ TR and related CRs are approved
- ✍ Migration to Modification procedure
  - ✍ The name was modified to “Transport bearer modification procedure on Iub, Iur, and Iu”
  - ✍ TR and Related CRs are approved



# Release4 Approved WIs

- ✍ **Transcoder Free Operations in UTRAN**
  - ✍ TR and Related CRs are approved
- ✍ **Radio access bearer support enhancement**
  - ✍ Some independent work tasks are approved for Rel-4
- ✍ **NodeB Synchronisation for TDD**
  - ✍ TR and related CRs are approved
- ✍ **DSCH power control improvement in soft handover**
  - ✍ TR and related CRs are approved. Still some work tasks are remaining on this topic



# UE Positioning

- ✍️ Iub/Iur interfaces for UE positioning methods supported on the radio interface Release '99
  - ✍️ TR and related CRs are approved
- ✍️ UE positioning enhancements
  - ✍️ TR and related CRs are approved
- ✍️ Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning
  - ✍️ This WI was newly proposed and agreed. WG2 already complete stage 2 work and this was approved as Rel-4. Stage 3 work will be for Rel-5



# Low chip rate TDD

- ✍ Low Chip Rate TDD Physical Layer
- ✍ Low chip rate TDD layer 2 and layer 3 protocol aspects
- ✍ Low Chip Rate TDD UE radio access Capability
- ✍ Low chip rate TDD UTRAN network Iub/Iur protocol aspects
- ✍ Low chip Rate TDD RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing
- ✍ All the TRs and CRs related on this topic were approved



# WIs left over for future releases

- ✍ FDD Base station classification (RAN#13)
- ✍ TDD Base station classification (RAN#12)
- ✍ UMTS 1800 ( RAN#12 (to be reviewed))
- ✍ RRM optimizations for Iur and Iub ( One WT remaining to be completed)
- ✍ IP Transport in UTRAN
- ✍ Improved usage of downlink resource in FDD for CCTrCHs of dedicated type





# WIs left over for future releases

- ✍ Radio access bearer support enhancement ( Some WT are remaining )
- ✍ Terminal power saving features ( The name was changed to “Gated DPCCH Transmission “(RAN#13)
- ✍ Improvement of inter-frequency and inter-system measurements
- ✍ Hybrid ARQ

# CPCH Mandatory ?

- ✍ There was a proposal to make CPCH mandatory for UEs for Release 4
- ✍ RAN concluded that this issue should be discussed in WGs further, since WG4 has not completed the work yet and was not discussed in WGs enough

# Study items

✍ Feasibility study of UE antenna efficiency test methods performance requirements

✍ Not yet completed

✍ Feasibility Study for Improved Common DL Channel for Cell-FACH State

✍ Not yet completed

✍ Radio link performance enhancements

✍ No Progress

✍ USTS

✍ TR was not approved since WG3 part is not completed yet. It was confirmed that they should be handled in the next WG meetings and CR work can be started right after that



# SI: HSDPA

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- ✍ Among technologies discussed under this topic, MIMO and Fast Cell Selection will be discussed separately.
- ✍ TRs were approved and WI was created toward Release 5 on above condition.



# Newly Approved Work Items

- ✍ Enhancement on the DSCH hard split mode ( RAN#14)
- ✍ Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN ( RAN#14)
- ✍ Traffic Termination Point Swapping (RAN#14)
- ✍ Open SMLC-SRNC Interface within the UTRAN to support UTRAN Rel-4 positioning methods (RAN#14)



# Newly Approved WIs

- ✍ UE positioning enhancements for 1.28 Mcps TDD ( RAN#14)
- ✍ Node B Synchronisation for 1.28 Mcps TDD (RAN#14)
- ✍ UMTS 1900 (RAN#13)
- ✍ RL Timing Adjustment (RAN#14)
- ✍ Separation of resource reservation and radio link activation (RAN#14)
- ✍ MIMO (RAN#15)

# Newly Approved Study Items

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- ✍ Mitigating the Effect of CPICH Interference at the UE (RAN#13)
  - ✍ Improvement of RRM across RNS and RNS/PSS (RAN#13)
  - ✍ Fast Cell Selection (FCS) for HS-DSCH (RAN#14)
  - ✍ Proposal to introduce the SIR measurement ( Principle agreed )
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## Relationship with Outside of 3GPP

- ✍ EP BRAN: Hiperaccess application will be discussed with WG3 on Iub, (Iur)
- ✍ ITU-R: To be handled by ITU Ad Hoc
- ✍ ITU-T: Questions received
  - ✍ RAN considers that it is better to be discussed in SA, since it is not only radio matter
- ✍ IETF: IP header compression completed
  - ✍ Test specs needs to be considered by T1



# Items to be highlighted to SA (1)

- ✍ Vocabulary document (TR 21.905 )
  - ✍ 25.401 CR20r1 contains terminology definition
- ✍ Regional requirements on Test Tolerances
  - ✍ A CR was approved to include Japanese regulation on measurement uncertainty
- ✍ Operating Frequency Band as a Release independent work item (SP-010173  )
  - ✍ This policy was agreed within TSG RAN

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Document



## Items to be highlighted to SA (2)

- ✍ RAB Quality of Service Negotiation over Iu
  - ✍ This was agreed in RAN for Rel-4. LS from SA2 said different thing. Guidance is needed
- ✍ Open SMLC-SRNC Interface within the UTRAN to support A-GPS Positioning
  - ✍ Although detail is to be completed in Rel 5, early completion is strongly requested from operators
- ✍ UE Speed more than 250Km/h
  - ✍ Performance requirements for UE speeds in excess of 250 kph are not included in the RAN FDD R'99 specifications. RAN considers it is too late to add any additional requirements to R99 specifications at this stage.

# Items to be highlighted to SA (3)

## ✍ Location Services Accuracy


- ✍ Guidance from SA and SA1 is expected on whether or not accuracy for measurement done by equipment was an issue (more specifically when UE based methods are used).

## ✍ Test to be defined in TSG T

- ✍ TSG RAN is ready to establish joint meeting at WG level. In Release 4 mainly it concerns TDD LCR, DSCH, IP ROCH.



# Items to be highlighted to SA (4)

- ✍ Enhancement of Broadcast and Introduction of Multicast Capabilities in RAN (WI for Release 5 )
  - ✍ RAN request guidance on the relationship with other TSG ( SA1 )
- ✍ Checking the integrity of UE security capabilities
  - ✍ In response to SA3 liaison, CR was approved but question remains about the necessity
- ✍ Recommendations applying to corrections of Release '99 specifications (RP-010276  )
  - ✍ To keep backward compatibility, guideline was drafted

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# TSG-RAN New Officials

	Chair	Vice	Vice	Secretary
Plenary	Francois Courau	Don Zelmer	Eisuke Fukuda	Hans van der Veen
WG1	Antti Toskala	Masafumi Usuda	Hyoen Woo Lee	Shinobu Ikeda
WG2	Denis Fauconnier	Francesco Grilli		Hans van der Veen
WG3	Martin Israelsson	Jim Miller	Chenghock Ng	Carolyn Taylor
WG4	Howard Benn	Takaharu Nakamura		Cesar Gutierrez Miguelez

**Title: LS on Operating Frequency Band as a Release independent work item**

**Source: TSG-RAN**

**To: TSG-SA**

Contact: Howard Benn, Motorola  
Howard.Benn@motorola.com

## **1.0 Introduction**

TSG RAN approved the following process for the handling of new frequency bands. This document is provided to TSG SA for information.

The current procedure adopted in 3GPP is to introduce each new feature or work item as part of a specification release. When this new feature or work item from a Release is implemented, the particular implementation should support all mandatory features in this and earlier Releases. While this procedure is reasonable for most of the new features/work items, the Frequency Band is a work item we recommend is exempted from this procedure.

TSG RAN has approved the procedure that allows a frequency band of operation to be independent of a 3GPP specification Release. This policy is also in line with the release independent approach adopted in 3GPP / ETSI for new GSM bands [1]. This procedure would also allow for faster market launch for new WCDMA frequency adaptations becoming available in some areas.

When the frequency band is left as a Release independent work item, this would allow 3GPP to include each new frequency band into the respective open drafting Release without a need to include each new band into earlier Releases that are seen as 'frozen'.

## **2.0 Process**

- 1) 3GPP accepts that Band of Operation may be independent of Release. This approach provides the flexibility that is needed when new frequency bands are being standardized. The release independence of frequency band may be applied to any new band of operation.
- 2) However in a case where frequency band is considered release independent it may be necessary to give instructions for implementation. For example;
  - A UE or Node B complying to release 99 but supporting UMTS-1800 shall comply with the minimum RF performance requirements specified in TS25.101 Release 5 and TS25.104 Release 5 which are considered essential.
  - A UE or RNC complying to release 99 but supporting UMTS-1800 shall support the use of certain message extensions that are based on Release 5.
  - This information for implementation shall be specified in a new RAN WG2 document similar to 3GPP TS 05.14 (Release Independent Frequency bands; implementation Guidelines) [2]

## **3.0 Reference:**

- [1] Tdoc SMG2 1040/00 - Operating Frequency Band as a Release Independent Feature –Nokia
- [2] 3GPP TS 05.14 - Release Independent Frequency bands; implementation Guidelines.

**Agenda Item:** 10

**Source:** Drafting group (NTT DoCoMo, Alcatel, Ericsson, Nokia, Nortel Networks)

**Title:** Recommendations applying to corrections of Release 99 specifications

**Document for:** Decision

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## **1 Proposal**

It is proposed that the following guidelines are adopted by TSG RAN, and be applied in RAN WGs:

1. Working Groups should work on release 99 corrections with the objective of maximising the backwards compatibility with previous versions of the specifications.
2. Backwards compatible corrections should be investigated for all corrections of release 99. Different techniques may be applied, such as usage of extensions mechanisms when the correction relates to an ASN.1 message. The possibility to find an acceptable backwards compatible solution will be analysed on a case by case basis. Message extension overhead aspects should be considered.
3. Each CR to a specification should have an analysis of its backwards compatibility aspects. When a CR is not backwards compatible, detailed analysis should be provided to TSG RAN.
4. The WGs of TSG RAN shall ensure that the CRs are done in such a way that they only affect the functionality it is intended to correct. In case the CR is correcting an ASN.1 message it may be required to use the extension mechanism in order not to affect other functionality.
5. As an exception to the previous recommendation, it may happen that a correction of one functionality of release 99 affects other functionalities of release 4. This is in particular the case when an extension is introduced for a correction of release 99, and therefore release 4 extensions are shifted in an ASN.1 message. RAN WG2 should investigate whether improvements to the extension mechanism would allow corrective extensions in one release that would not affect extensions for the following releases.
6. TSG RAN may also decide that corrections of a specific function will not be done in release 99. Corrections of this function may then be done in a later release. The function may also be removed from release 99 if it is not essential.
7. When an inconsistency exists between the ASN.1 and tabular descriptions, the necessary corrections should follow the rules described above. Since the ASN.1 description of messages is the normative part of the specifications, a correction on the Tabular section is the preferred one. This shall be analysed on a case by case basis.