TSG RAN#7 March 13-15, 2000 Tdoc RP-00-0058

Madrid, Spain

Source: TSG RAN WG1 Chairman

Report from WG1 chairman to TSG-RAN

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Executive Summary

- All items finalised for release-99 as intended for RAN#7
  - Compressed mode with puncturing finalised for fixed positions
- Turbo Interleaving for smaller bit rates finalised and agreed to be mandatory for all UE (with Turbo capability)
- CPCH procedure finalised (both UE channel selection and channel assignment methods) (FDD only)
- Out-of-synch behaviour finalised, absolute value parameterisation to be clarified (fixed or default + signalling for parameter change)
- Cell cycling finalised (included) (TDD only)
- Technical report on narrowband TDD started
- CRC with zero block length clarified
- Measurements & inner loop TPC updated in line with RRM decisions

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25.201 Physical Layer General Description

- **Editorial CR done to update terminology and references**

25.211 Physical Channels and Mapping of Transport Channels to Physical Channels (FDD)

- Editorial changes and small adjustments/corrections
- New items:
  - CPCH related channels finalised
  - Physical Channels needed for CPCH procedure separated to different channels
- DSCH timing changed
- Open Items: None

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25.212 Multiplexing and Channel coding (FDD)

- Finalised items: Smaller size Turbo interleavers (Mandatory in Rel-99), including padding functionality
- 0-size transport block case covered
- Smaller adjustment like TFCI basis functions optimisation
- Compressed mode with puncturing and fixed positions concluded
- Open item: compressed mode with puncturing and flexiple positions, should WG1 still work on for Release-99 or should it be covered in Rel. 00 work

25.213 Spreading and scrambling (FDD)

- The PRACH and PCPCH scrambling code sets clarified
- CPCH spreading clarified (which channelisation code to use etc.)
- Small clarifications e.g. with DSCH
- Open items: None

25.214 Physical Layer Procedures (FDD)

- Out of synch and synchronisation procedures in general clarified
- Power control updated in-line with RRM Ad Hoc Decisions (SIR is mentioned in annex only)
- SSDT codes modified
- Open item: Should the out-of-synch procedure parameters be possible to modify byhigher layers? (If yes, then only editorial in WG1 specifications though, more of WG2 issue)

25.215 Measurements (FDD)

- Measurements aligned with RRM Ad Hoc decisions (see RRM Ad Hoc report)
  - BER & RSCP for UE removed etc (not reported).
- Measurement ranges finalised, to be moved to WG4 specifications after RAN#7 (CRs to WG1 and WG4 specifications for the move for RAN#8)
  - This was agreed in joint WG1 & WG4 meeting during WG1#11 in San Diego
- Compressed mode parameterisation finalised

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25.221 Physical Channels and mapping of transport channels to physical channels (TDD)

- Case 3 for SCH configuration removed
- Cell parameter cycling finalised
- Midamble refinements (association and mapping)
- ODMA sections removed (all TDD specs) as not part of Rel.99
- Open items: None

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25.222 Multiplexing and Channel coding (TDD)

- TFCI mapping updated (+ basis functions as with FDD)
- Physical channel mapping clarified
- Turbo interleavers updated and smaller sizes included (as with FDD)
- Alignment for rate matching with FDD
- Open items: None

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25.223 Spreading and Scrambling (TDD)

- Modulation constellation modified (there was an offset between midamble and data parts)
- Cell cycling covered
- Open items: None

25.224 Physical Layer Procedures (TDD)

- Out-of-synch added
- ODMA procedure removed
- Power control aligned with FDD
- RRM Ad Hoc decisions were started, some refinement still to be done
- Open items: None

25.225 Measurements (TDD)

- Refinements and alignment to FDD
- Open items: None

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RAN WG1 Technical reports (1)

- TR 25.944 Multiplexing and channel coding examples presented for approval.
  - Some additional things still may be added, WG1 would like to consider this as a living document at this point.

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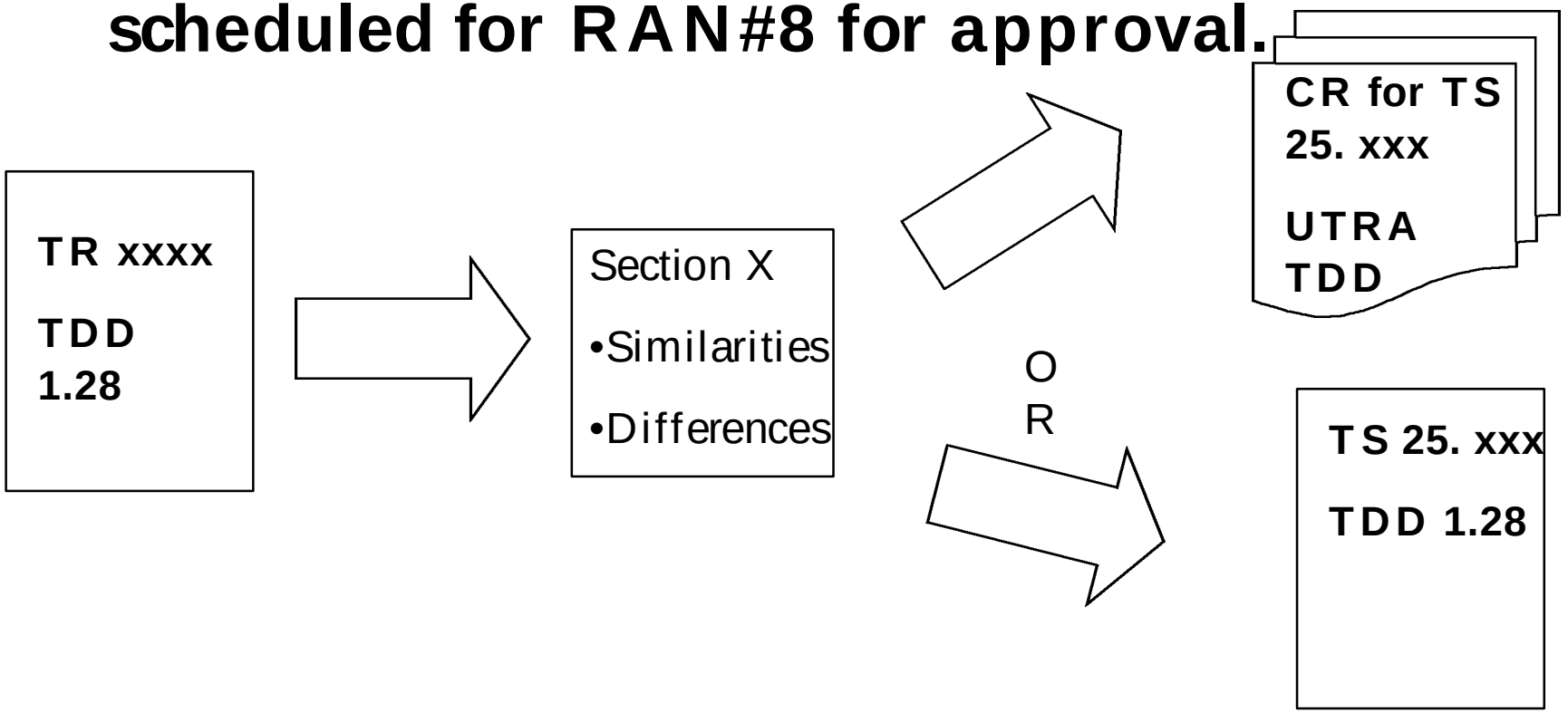
RAN WG1 Technical reports (2)

- **TR 25.928 1.28M cps UTRA TDD Physical Layer**
  - **Available for information at this point scheduled for RAN#8 for approval.**



Annex 1. Meetings Since TSG RAN#6

- WG1#10 January Beijing, China, Host Nokia China
- WG1#11 Feb/March San Diego, USA, Host T1P1

Annex 2. RAN WG1 meetings left for year 2000

- **WG1#12 April 10-13 (Seoul, Korea, Host: TTA)**
- **WG1#13 May 22-26 (Japan)**
- **WG1#14 July 4-7 (Oulu, Finland, Host: Nokia)**
- **WG1#15 August 22-25 (Berlin, Germany, Host: Siemens)**
- **WG1#16 October 9-13 (Korea, Host: TTA)**
- **WG1#17 November 20-24 (TBD)**
- **Note: Dates indicate the week, meeting duration 4 days**

Annex 3. Release -2000 issues

- The work items were briefly reviewed

- Smaller items discussed that work item description was not felt necessary
  - TX-diversity enhacements
  - DSCH power control (in SHO)
  - Compressed mode development
  - Convolitional coding end puncturing

  - (RAN guidance needed if WI description for these needed as well or if they are consider be covered by other proposed work items)

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Annex 4. WG1 CRs for RAN#7

- **Per Specification:**
  - **25.201 1 CR**
  - **25.211 17 CRs**
  - **25.212 23 CRs**
  - **25.213 10 CRs**
  - **25.214 22 CRs**
  - **25.215 16 CRs**
  - **25.221 8 CRs**
  - **25.222 9 CRs**
  - **25.223 3 CRs**
  - **25.224 9 CRs**
  - **25.225 3 CRs**
- **TOTAL 121 CRs for RAN#7 approval**

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