

TSG RAN Meeting No.3 April 21-23

Tdoc TSG RAN 232/99

Yokohama, Japan

Source: TSG RAN WG1 Chairman

TSG RAN WG1 - Chairman's report

Antti Toskala

3GPP RAN WG1 Chairman

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S1.01 Physical Layer General Description

- **Specification updated to reflect the main development points**
- **Presented for RAN as Tdoc RAN 233**

S1.11 Physical Channels and mapping of transport channels to physical channels (FDD)

- **RACH timing defined in more details**
- **Several items defined with more details for the physical channels, pilot patterns etc. slot structures specified.**
- **Gain factors defined.**
- **Presented for RAN as Tdoc RAN 234**
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S1.12 Multiplexing and Channel coding (FDD)

- Turbo interleaving has selected and details included.
- Trellis termination defined
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- Biggest on going study item is channel interleaver, milestone plan has scheduled selection 5/99. Currently two candidates for which evaluation scheduled to be done for the next meeting.
- Presented for RAN as Tdoc RAN 235
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- Hybrid ARQ support was not agreed, thus not supported by the physical layer.

S1.13 Spreading and scrambling (FDD)

- **Primary synchronisation codes have been modified**
- **Gain factors specified**
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- **Presented for RAN as Tdoc RAN 236**
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S1.14 Physical Layer Procedures (FDD)

- **Physical layer RACH procedure defined in more details**
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- **Presented for RAN as Tdoc RAN 237**
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S1.21 Physical Channels and mapping of transport channels to physical channels (TDD)

- **Updates to synchronisation channel**
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- **Presented to RAN as Tdoc RAN 238**

S1.22 Multiplexing and Channel coding (TDD)

- Turbo interleaving has selected and included
- Alignment with S1.12
- Hybrid ARQ support was not agreed, thus not included.
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- Presented to RAN as Tdoc RAN 239
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S1.23 Spreading and Scrambling (TDD)

- **Small corrections**
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- **Presented to RAN as Tdoc RAN 240**

S1.24 Physical Layer Procedures (TDD)

- **Updates to Cell search, power and DTX operation**
- **NodeB synchronisation procedure modified**
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- **Presented to RAN as Tdoc RAN 241**
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S1.31 Measurements

- **More specific text on GSM handover issues**
 - **On compressed mode parameterisation etc,**
- **The physical layer measurement for FDD-FDD handover defined in more detail (E_c/I_0)**
- **Possibility of providing Relative timing information between UTRA FDD cells included**
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- **There is most work with this document and can not be considered as a stable one at this point.**
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- **Presented to RAN as Tdoc RAN 242**
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Other issues

- How power control is handled between WGs identified as need for discussions in RAN level.
- The quality of service requirements would need some clarifications from TSG SA, main issue is when BER below $10E-7$ needs to be supported over the air interface (without retransmissions) needs to be clarified as there are impacts on the channel codec as well.
- Both CPCH and USCH seem feasible from WG1 perspective, discussions will continue on details.
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- WG1 has maintained a study items documents as will, as a technical report. This is provided for RAN for information only.
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Meeting Schedule for Coming WG1 Meetings

- **WG1#5 June 1-4 Place Host TTA, Korea**
- **WG1#6 July 12-16 Host Nokia, Finland**
- **WG1#7 August 31-September 3 Host TBD**
- **WG1#8 October 12-15 Host TBD**
- **WG1#9 November 30 - December 3 Host TBD**
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