

TSG-RAN meeting #4

TSGR#4(99)305

Miami, FL, USA , 17-18, June,1999

**Title:** Revised Report of the 3rd TSG-RAN meeting  
**Document for:** Approval  
**Source:** 3GPP support team

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RP99-305.doc

23 May 1999.

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## 1. Opening of the meeting (9:00, April 21)

The chairman and ARIB welcomed delegates to Japan.

The most important item is to approve the draft specifications.

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## 2. Approval of the agenda

The agenda in tdoc 180 was approved. It was agreed to discuss item 8 (document version numbering) before item 6 (approval of draft specifications).

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## 3. Approval of meeting report of RAN#2

The meeting of RAN#2 in tdoc 174 had been distributed via the email reflector and was on the server ([the revised version taking into account comments received during the approval period is available in tdoc 175](#)). It was approved.

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## 4. Inputs from other groups

**Tdoc 186 Structure and numbering of the 3GPP specification series.** This document from ETSI Mobile Competence Centre was presented by Ian Doig. It was accepted in principle by PCG. It has been refined through consultations including SMG WOME. TSG-RAN S-series documents will become 25-series documents. The responsibility of TSG-RAN for other series (e.g. 28 series) will be clarified in discussions between the chairman and chairmen of other groups outside the meeting. The document was approved.

**Tdoc 185 TSG RAN Work program.** This is a hard copy of the 3GPP work item database maintained by ETSI. It was introduced for information by Ian Doig. The working groups were invited to review the database and notify any discrepancies by email to [ian.doig@etsi.fr](mailto:ian.doig@etsi.fr) before the RAN#4 meeting.

**Tdoc 182 Liaison statement on requirements on GSM/GPRS evolution for UMTS.** This LS was copied to TSG-RAN for information. WG2 will study this document.

**Tdoc 183 LS on Need for inter-operator handover between UMTS and GSM.** This LS to TSG-RAN will be studied by all working groups and a single response from TSG-RAN will be made.

**Tdoc 184 Answer to Liaison statement on UMTS Simultaneous Mode from SMG12.** This LS was copied to TSG-RAN for information.

**Tdoc 274 Liaison statement from GSM association to 3GPP TSGs.** This liaison statement will be dealt with in TSG-SA.

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## 5. Status reports from working groups, ITU-Ad Hoc

### 5.1 Report of PCG activity

**Chairman's report.** Liaisons with outside bodies will be co-ordinated by PCG. It was decided that when liaison with an outside body is approved by PCG, correspondence can be sent directly to that body from a RAN WG without approval of TSG-RAN.

**RP-99189 Liaison statement from ITU-R TG 8/1.**

## 5.2 Report from WG1

**Tdoc 232 Report from WG1 chairman.** The report was presented by the WG1 chairman Antti Toskala (Nokia). Tdoc 273 is the TSG-RAN WG1 workplan.

**Tdoc 181 Liaison on UE physical layer capabilities.** This LS from WG1 to TSG-T2 was copied to TSG-RAN for information.

**Tdoc 248 Introduction of the Chinese narrowband key parameters and features for UTRA-TDD mode.** This document from ARIB, CATT, DoCoMo, Ericsson, Nokia, RITT and Siemens makes proposals based on CATT's TD-SCDMA approach. TSG-RAN agreed to consider this technology. WG1 will consider the feasibility and to which release of the specification it would be added, and report back to RAN#4. The Chairman will report this issue to the SA#3 meeting.

## 5.3 Report from WG2

**Tdoc 257 Status report of TSG RAN WG2.** The report was presented by the WG2 chairman Denis Fauconnier (Nortel Networks). Afterwards there was some discussion about sharing of work between groups. These discussions will continue in agenda item 10. It must also be clarified which items will not be in Release 99. Tdoc 258 is the Workplan of WG2.

## 5.4 Report from WG3

**Tdoc 218 Status Report RAN WG3 13 April 1999.** The report was presented by the WG3 chairman Per Willars (Ericsson). There are no more documents (other than specifications) to RAN#3 from WG3.

## 5.5 Report from WG4

**Tdoc 228 Report from TSG RAN WG4.** The report was presented by the WG4 chairman Howard Benn (Motorola). Specifications have been numbered within the 25-series. The chairman asked Mr Benn to produce a WG4 workplan. Tdoc 229 is a proposed project plan from Motorola. Mr Benn encouraged contributions from companies other than his own.

There are 4 liaison statements to other RAN working groups which have been copied to TSG-RAN.

**Tdoc 245 LS on Future definition of UE power classes.** Provided to TSG-RAN for information.

**Tdoc 246 LS on Liaison statement on carrier frequency raster.** This liaison statement seeks guidance from TSG-SA and various bodies (via TSG-RAN) on the carrier raster definition formula which WG4 has developed. It was agreed to send this to TSG-SA, T1P1.5, and ERC

**Tdoc 270 Answer to TSG-T2 on Baseline Terminal Capabilities.** Provided to TSG-RAN for information.

## 5.6 Report from ITU-Ad Hoc

**Tdoc 192 Status Report from ITU ad-hoc contact person.** The report was presented by the chairman of the ITU ad-hoc group, Nicola Pio Magnani (CSELT). The report refers to the meeting of ITU-R TG 8/1 in Fortaleza, Brazil (see also tdoc190 Report of the last meeting of ITU-R TG 8/1) where Rec IMT.RKEY was approved taking into account the inputs developed within TSG RAN. There is a liaison statement from ITU-R to several bodies including Partnership Projects in tdoc 189 containing terms of reference for the new TG 8/1 working group 5 (RSPC) and requesting information. Three docs were developed to be submitted to ITU. It was also noted that there may be a need to develop additional contributions to ITU after this RAN plenary; if this is the case, the usual correspondence procedures would apply.

**Tdoc 190 Report of the last meeting of ITU-R TG 8/1. (ITU Ad Hoc Contact Person)** It was submitted for information.

**Tdoc 189 Liaison statement from ITU-R TG 8/1. (CSELT)** A proposed response to this liaison is available in Tdoc 249.

**Tdoc 249 Radio Interface Specifications for IMT-2000 (ITU Ad Hoc)** (this replaces Tdoc 219) is a reply to the LS from ITU-R in tdoc 189 and contains material about the radio interface. It is intended to be presented by an individual ITU-R member to the next ITU-R TG 8/1 meeting (Beijing 31 May 1999 to 11 June 1999), as well as to the joint experts group ITU-T SG11 and ITU-R TG 8/1 during the TG 8/1 meeting, and to ITU-T SG11. There was discussion about how to handle in ITU Rec references to 3GPP Specs (e.g., which version of the radio specification would be referenced by ITU-R).

3GPP does not normally send liaison statements to ITU but in this case would be replying to a request from ITU-R. PCG could be consulted before this LS is sent to ITU but since the next PCG meeting is 6-7 July 1999 it was decided to use the normal procedure (tdoc 249 to be submitted to ITU-R by individual members with the footnote this contribution was developed in 3GPP TSG-RAN). It was clarified that Tdoc 249 provides answers only to the topics which are relevant to RAN; for remaining topics, a LS is proposed to be sent to 3GPP Organisational Partners (see Tdoc 253). It was agreed but a new version was produced (Tdoc 285). On the third day tdoc 285 was approved; [a few editorial changes were proposed and they were included in tdoc 294 to be sent to ITU via individual member.-](#)

**Tdoc 253 Proposed Liaison Statement to the 3GPP Organisational Partners (ITU Ad Hoc Contact Person).** This document is a liaison statement to 3GPP organisational partners asking them to respond to some parts of ITU-R liaison statement in tdoc 189, particularly bullet points 2 and 3 of section 2.2 which were not answered by RAN. It was agreed but a new version was produced (Tdoc 286). On the third day tdoc 286 was approved; [a new version was produced \(tdoc 295\) in order to align the document with tdoc 294.-](#)

**Tdoc 191 Guidelines for the activity of ITU (ITU Ad Hoc Contact Person).** This documents captures the outcome of the last PCG meeting and it was provided for information since its content was already approved.

**Tdoc 250 Revision of Recommendation ITU R M 1079 (ITU Ad Hoc).** This document is accompanied by an LS to TSG-SA (tdoc 252) requesting the latest version of Tdoc C-99-063 for submission to ITU-R TG 8/1. Approved for the cover page only. Will be revised (Tdoc 284). **Tdoc 252 Proposed Liaison Statement to TSG SA (ITU Ad Hoc Contact Person).** This is a proposed liaison statement to TSG-SA. Agreed but new version will be produced (Tdoc 283). On the third day tdocs 283 and 284 were approved.

**Tdoc 251 Proposed contribution to ITU R TG 8/1 on TDD harmonisation developments within 3GPP (NOKIA).** This document requests to inform TG 8/1 on the status of the activity within 3GPP on the Chinese proposal (see the attached document on Chinese narrowband key parameters and features for UTRA-TDD mode tdoc 248). It was requested to provide a clean version of the document (Tdoc 282) to be approved by RAN to be sent by an individual member with the footnote this contribution was developed in 3GPP TSG-RAN." On the third day tdoc 282 was approved.

## 6. Approval of draft specifications

### 6.1 Documents from WG1

| Tdoc | Presented as spec. | Presented as version | Title  | Result             | Agreed as spec. | Final version |
|------|--------------------|----------------------|--|--------------------|-----------------|---------------|
| 233  | S1.01              | 2.0.0                | Physical layer -General Description  | endorsed<br>note 1 | 25.201          | 2.0.0         |
| 234  | S1.11              | 2.0.0                | Physical channels and mapping of transport channels onto physical channels (FDD) | endorsed           | 25.211          | 2.0.0         |
| 235  | S1.12              | 2.0.0                | Multiplexing and channel coding (FDD)  | noted<br>note 2    | 25.212          | 1.0.0         |
| 236  | S1.13              | 2.0.0                | Spreading and modulation (FDD)   | endorsed<br>note 3 | 25.213          | 2.0.0         |
| 237  | S1.14              | 2.0.0                | FDD; physical layer procedures   | noted<br>note 4    | 25.214          | 1.0.0         |
| 238  | S1.21              | 2.0.0                | Physical channels and mapping of transport channels onto physical channels (TDD) | noted<br>note 5    | 25.221          | 1.0.0         |
| 239  | S1.22              | 2.0.0                | Multiplexing and channel coding (TDD)  | noted              | 25.222          | 1.0.0         |

|     |       |       |                                |                    |        |       |
|-----|-------|-------|--------------------------------|--------------------|--------|-------|
|     |       |       |                                | note 6             |        |       |
| 240 | S1.23 | 2.0.0 | Spreading and modulation (TDD) | endorsed<br>note 7 | 25.223 | 2.0.0 |
| 241 | S1.24 | 2.0.0 | TDD; physical layer procedures | noted              | 25.224 | 1.0.0 |
| 242 | S1.31 | 2.0.0 | Physical layer; measurements   | noted<br>note 8    | 25.231 | 0.2.0 |

Note 1: Pulse Shaping (section 7.2.3) and Transmission And Reception Frequency Band (section 7.2.4) are the responsibility of WG4. Sections 7.2.3 and 7.2.4 should be removed and references made to relevant WG4 documents.

Note 2: It was agreed that certain corrections to the editor's note need to be made, especially regarding turbo coding and interleaving, and they will be done by the WG1 chairman and the document shall be presented again to RAN still during the on-going meeting with the corrections as version 2.0.1 (tdoc 289). On the third day tdoc ~~235-289~~ was noted as 25.212 version 1.0.0. The channel interleaver section is still missing.

Note 3: Pulse shaping shall be referenced to a WG4 specification.

Note 4: Power control section is unstable.

Note 5: There are some open issues relating to random access channel. There are erroneous editor's notes.

Note 6: Same issues as S1.12. On the third day tdoc 290 was noted as 25.222 version 1.0.0.

Note 7: Same issues as S1.13

Note 8: Some corrections from WG1 in section 7.5 have not been incorporated.

## 6.2 Documents from WG2

| Tdoc | Presented as spec. | Presented as version | Title   | Result             | Agreed as spec. | Final version |
|------|--------------------|----------------------|---|--------------------|-----------------|---------------|
| 259  | S2.01              | 0.2.0                | Radio Interface Protocol Architecture                     | approved<br>note 1 | 25.301          | 3.0.0         |
| 260  | S2.02              | 0.3.0                | Services provided by the physical layer                   | endorsed<br>note 2 | 25.302          | 2.0.0         |
| 261  | S2.03              | 0.3.0                | UE functions and inter-layer procedures in connected mode | endorsed<br>note 3 | 25.303          | 2.0.0         |
| 262  | S2.04              | 0.2.0                | UE procedures in Idle Mode                                | noted              | 25.304          | 1.0.0         |
| 263  | S2.21              | 0.1.0                | MAC protocol specification                                | endorsed<br>note 4 | 25.321          | 2.0.0         |
| 264  | S2.22              | 0.1.0                | RLC protocol specification                                | noted              | 25.322          | 1.0.0         |
| 265  | S2.31              | 0.1.0                | RRC protocol specification                                | noted              | 25.331          | 1.0.0         |

Note 1: Editor's notes should be marked as 'notes'. An editorial error was corrected in version 0.2.0 after an email discussion.

Note 2: Missing parameters for transport channels. Missing primitives.

Note 3: There are several editorial notes. More examples may be added. Annex A may be modified.

Note 4: Hybrid ARQ missing, ciphering not completed, several sections contain no text. There was a long discussion about whether to endorse this document, or to approve it with some parts removed from R99 and postponed to a later release. A slight majority preferred the former approach. Therefore the document was endorsed. It is expected that the specification will be approved at the next meeting.

## 6.3 Documents from WG3

Note: Tdoc 187 is the same as tdoc 194. Tdoc 188 is the same as tdoc 214. Tdocs 194, 195, 201, 209 and 216 were withdrawn.

| Tdoc                        | Presented as spec. | Presented as version                           | Title  | Result                              | Agreed as spec. | Final version                             |
|-----------------------------|--------------------|--|--|-------------------------------------|-----------------|---|
| 193                         | S3.01              | 0.1.0  | UTRAN Overall Description  | noted                               | 25.401          | 1.0.0                                     |
| 187                         | S3.10              | 0.1.0  | UTRAN Iu Interface: General Aspects and Principles                                     | noted                               | 25.410          | 0.1.0                                     |
| 195<br><u>not available</u> | S3.11              | 0.1.0 <u>not available</u>                     | UTRAN Iu interface Layer 1   | note 1                              | 25.411          | <u>see note 1 not available</u>           |
| 196                         | S3.12              | 0.1.0  | UTRAN Iu interface signalling transport  | noted<br>note 2                     | 25.412          | 1.0.0                                     |
| 197                         | S3.13              | 0.1.0  | UTRAN Iu interface RANAP signalling  | noted                               | 25.413          | 1.0.0                                     |
| 198                         | S3.14              | 0.1.0  | UTRAN Iu interface data transport & transport signalling                               | noted<br>note 1                     | 25.414          | 1.0.0                                     |
| 199                         | S3.15              | 0.1.0  | UTRAN Iu interface user plane protocols  | noted                               | 25.415          | 0.1.0                                     |
| 200                         | S3.20              | 0.1.0  | UTRAN Iur Interface: General Aspects and Principles                                    | noted                               | 25.420          | 0.1.0                                     |
| 201<br><u>not available</u> | S3.21              | <u>0.1.0 not available</u><br><del>0.1.0</del> | UTRAN Iur interface Layer 1  | note 1                              | 25.421          | <u>not available</u><br><del>note 1</del> |
| 202                         | S3.22              | 0.1.0  | UTRAN Iur interface signalling transport   | note <del>3</del> <u>1</u>          | 25.422          | <u>see note 30.1.0</u>                    |
| 203                         | S3.23              | 0.1.0  | UTRAN Iur interface RNSAP signalling   | noted                               | 25.423          | 1.0.0                                     |
| 204                         | S3.24              | 0.1.0  | UTRAN Iur interface data transport & transport signalling for CCH data streams         | noted<br>note <del>3</del> <u>1</u> | 25.424          | <u>0.1.0+0.0</u>                          |
| 205                         | S3.25              | 0.1.0  | UTRAN Iur interface user plane protocols for CCH data streams                          | noted                               | 25.425          | 0.1.0                                     |
| 206                         | S3.26              | 0.1.0  | UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams | noted<br>note 1                     | 25.426          | 1.0.0                                     |

|                                 |       |                                   |  |                 |                   |                                    |
|---------------------------------|-------|-----------------------------------|--|-----------------|-------------------|------------------------------------|
| 207                             | S3.27 | 0.1.0                             | UTRAN Iur and Iub interface user plane protocols for DCH data streams          | noted           | 25.427            | 0.1.0                              |
| 208                             | S3.30 | 0.1.0                             | UTRAN Iub Interface: General Aspects and Principles                            | noted           | 25.430            | 0.1.0                              |
| 209<br><del>not available</del> | S3.31 | <del>not available</del><br>0.1.0 | UTRAN Iub interface Layer 1  | note 1          | 25.431            | <del>not available</del><br>note 1 |
| 210                             | S3.32 | 0.1.0                             | UTRAN Iub interface signalling transport                                       | noted<br>note 1 | 25.432            | 1.0.0                              |
| 230                             | S3.33 | 0.1.0                             | NBAP specification   | noted           | <del>25.433</del> | 1.0.0                              |
| 211                             | S3.34 | 0.1.0                             | UTRAN Iub interface data transport & transport signalling for CCH data streams | noted<br>note 1 | 25.434            | 1.0.0                              |
| 212                             | S3.35 | 0.1.0                             | UTRAN Iub interface user plane protocols for CCH data streams                  | noted           | 25.435            | 0.1.0                              |

Note 1: TSG-RAN mandated WG3 to ~~produce~~ finalise the specification at its next meeting 26-30 April with the intention to approve it by correspondence before RAN#4. The document shall be distributed on the TSG-RAN email reflector as v2.0.0 as soon as possible. The specification will then become approved as v3.0.0 only if there are no objections within 30 days.

Note 2: The same procedure shall be applied as in note 1. In addition the chairman will request confirmation from SA of the choice made by SA2 on IU signalling for the packet domain.

~~Note 3: WG3 will try and reach a consensus at its next meeting 26-30 April with the intention to approve the specification by correspondence before RAN#4. If consensus is reached, the document shall be distributed on the TSG-RAN email reflector as v2.0.0. The specification will then become approved as v3.0.0 only if there are no objections within 30 days.~~

General comments: ~~Dated~~ Non-dated references shall be replaced by ~~non~~ non-dated references (to ITU-R recommendations). Editors are required for missing specifications.

## 6.4 Documents from WG4

Tdocs 222, 223, 224, 225, 226, 227 and 272 were withdrawn and replaced with tdocs 276 to 281 inclusive. Only version numbers have changed.

| Tdoc | Presented as spec. | Presented as version | Title                                      | Result | Agreed as spec. | Final version |
|------|--------------------|----------------------|--|--------|-----------------|---------------|
| 276  | S4.01A             | 1.1.0                | UE Radio transmission and reception (FDD)  | noted  | 25.101          | 1.0.0         |
| 277  | S4.01B             | 1.0.1                | BTS Radio transmission and reception (FDD) | noted  | 25.104          | 1.0.0         |
| 278  | S4.02A             | 1.0.1                | UE Radio transmission and reception (TDD)  | noted  | 25.102          | 1.0.0         |
| 279  | S4.02B             | 1.0.1                | BTS Radio transmission and reception (TDD) | noted  | 25.105          | 1.0.0         |
| 280  | S4.03              | 1.0.0                | RF parameters in support of RRM            | noted  | 25.103          | 0.1.0         |
| 281  | S4.11              | 0.0.1                | Base station conformance testing (FDD)     | noted  | 25.141          | 0.1.0         |

Note: All specifications are available on the 3GPP server in the WG4 directory.

Two specifications were not presented:

25.142 Base station conformance testing (TDD) This specification does not yet exist

25.113 Base station EMC. Contributions have been made. A report comparing regional EMC standards is being made in WG4.

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## 7. Technical reports

It was agreed that published technical reports will be numbered in the 25.900 range:

- 25.910 for WG1 technical reports
- 25.920 for WG2 technical reports
- 25.930 for WG3 technical reports
- 25.940 for WG4 technical reports
- 25.990 for RAN technical reports

It was agreed that internal reports to 3GPP will be numbered in the 25.800 range

It was agreed that work plans are numbered in the 30.500 range.

It was agreed that the same version numbering scheme will be used as for specifications.

### Technical reports from WG1

| Tdoc | presented as report | presented as version | title                      | decision | agreed as report | final version |
|------|---------------------|----------------------|----------------------------|----------|------------------|---------------|
| 255  | R1.01               | 0.1.0                | Physical Layer Study Items | note 1   | R1.01            | 0.1.0         |

Note 1: May not be a permanent technical report. This, and version numbering, are subject to further discussion.

The technical report on physical layer capabilities is not yet available.

### Technical reports from WG2

| Tdoc | presented as report | presented as version | title  | decision        | agreed as report | final version |
|------|---------------------|----------------------|--|-----------------|------------------|---------------|
| 266  | R2.01               | 0.1.0                | Guidelines and principles for protocol description and error handling (report) | noted           | 25.921           | 1.0.0         |
| 267  | R2.02               | 0.1.1                | RRM strategies   | for information | 25.922           | 0.1.1         |
| 268  | R2.03               | 0.1.0                | Location services features   | noted           | 25.923           | 1.0.0         |
| 269  | R2.05               | 0.0.1                | ODMA   | for information | 25.924           | 0.0.1         |

### Technical reports from WG3

Tdoc 188 is the same as tdoc 214.

| Tdoc | presented | presented | title | decision | agreed as | final version |
|------|-----------|-----------|-------|----------|-----------|---------------|
|------|-----------|-----------|-------|----------|-----------|---------------|



|                                      | as report | as version                          |  |                           | report |                                     |
|--------------------------------------|-----------|-------------------------------------|--|---------------------------|--------|-------------------------------------|
| 213                                  | I3.01     | 0.1.0                               | UTRAN Functions, examples on signalling procedures | noted                     | 25.931 | 1.0.0                               |
| 188                                  | I3.02     | 0.1.0                               | Manifestations of handover and SRNS relocation     | endorsed<br>note 1        | I3.02  | 2.0.0                               |
| 215                                  | I3.03     | 0.1.0                               | TSG RAN WG3 Work Plan and Study Items              | for information           | 30.531 | 0.1.0                               |
| 216<br><a href="#">not available</a> | I3.04     | 0.1.0 <a href="#">not available</a> | TSG RAN WG3 Study Items for Future Release         | for information           | 25.831 | 0.1.0 <a href="#">not available</a> |
| 217                                  | I3.05     | 0.1.0                               | Node B O&M Functional Descriptions                 | for information<br>note 2 | I3.05  | 0.1.0                               |

Note 1: Comments awaited from SA2. Not yet decided whether a [work plan published report](#) or [3GPP](#) internal report.

Note 2: [Not intended as a deliverable This is a WG3 internal report.](#) Not yet decided whether [a work plan or internal report it needs an S-series number.](#)

#### Technical reports from WG4

| Tdoc | presented as report | presented as version | title               | decision        | agreed as report | final version |
|------|---------------------|----------------------|---------------------|-----------------|------------------|---------------|
| -    | 4.0.0               | 0.0.1                | Introduction        | for information | 25.941           | 0.0.1         |
| 293  | 4.0.1               | 0.0.2                | RF system scenarios | for information | 25.942           | 0.0.2         |

A workplan will be produced as document 30.540.

**Tdoc 221 UTRAN vocabulary.** This document originated from ETSI SMG. It was presented by Howard Benn. TSG-RAN agreed to use this terminology as a basis. It will be edited and sent to ITU-R TG8/1 WG2 by the ITU ad-hoc group. Motorola will provide an editor for the document. The chairman tasked all specification editors to check tdoc 221 and email any comments to Howard Benn. [Later the number TR 25.945 was allocated.](#)

## 8. Document /version numbering

The chairman explained that if a version 2.0.0 specification is approved by TSG-RAN, it becomes version 3.0.0 and enters the process of change control. Therefore unstable specifications should not be approved because there would be an unnecessarily high administrative burden.

**Tdoc 244 Proposed Liaison Statement on document numbers and version conventions.** Proposes that version 4 should be used once a document is sufficiently stable. Ian Doig objected to the principle of changing the system to suit the documents. The document was not agreed.

On the second day Ian Doig gave a presentation on version numbering as in the 3GPP Working Procedures. It was agreed to follow these procedures. They are outlined below:

|                        |               |                                       |
|------------------------|---------------|---------------------------------------|
| Working Draft          | version 0.x.y | unstable                              |
| Internal WG Draft      | version 1.x.y | >50% stable, no change control        |
| Draft for RAN approval | version 2.x.y | >80% stable, no formal change control |
| RAN approved           | version 3.x.y | >80% stable, under TSG change control |

The following decision criteria were agreed by TSG-RAN.

| Decision | Interpretation  | Final version          |
|----------|---|------------------------|
| Approved | document considered stable, no objections               | version 3.x.y          |
| Endorsed | no objections, but non-essential modifications expected | version 2.x.y          |
| Noted    | no objections but modifications expected                | version 1.x.y or 0.x.y |

**Tdoc 291 Example 3GPP specifications status list.** Ian Doig presented the document. After each TSG-SA meeting a status list of current specifications will be produced by the 3GPP support team. Specifications shown on the list will be available publicly on the 3GPP server. Specifications which have been approved by correspondence between TSG-SA meetings will be indicated in the comment field. Editors were requested to supply agreed versions to the secretariat.

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## 9. System level Simulations

The chairman explained that it had previously been intended to deal with system level simulations in RAN plenary meetings. However in practice this is not the best method. It was decided to delegate system level simulations to the working groups and they will decide which simulations are required.

The ad-hoc group within WG4 will be expanded to include link level simulations.

**Tdoc 247 Performance Evaluation of Adaptive Antennas in UTRA.** This document originated from the European ACTS project and was presented by Howard Benn for information.

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## 10. Adjustment of work among WGs

**Tdoc 244 Proposed Liaison Statement on document numbers and version conventions.** WG4 conformance test document covers RF tests at the antenna connector only. Tdoc 244 questions if signalling tests, and tests at other interfaces, should be developed. It was agreed that testing on Iub and Iur interfaces is not necessary at the moment.

**Tdoc 254 Responsibility for conformance test method and minimum performance requirements.** This tdoc requests companies to contribute conformance test methods to TSG-T1 and minimum performance requirements to TSG-RAN WG4. After discussion, companies were invited to make contribute on these issues to TSG-SA. It was agreed to send a modified version of tdoc 254 from TSG-RAN to TSG-SA (but not the April meeting) for information and copy to TSG-T1 and TSG-R4. The principle that, companies who contribute to core specifications should be encouraged to make contributions to conformance test specifications accordingly, was accepted.

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## 11. Adjustment of work with other TSGs

There is a meeting of TSG chairmen at 15.00 on 23 April.

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## 12. Support resources

**Tdoc 296 Proposed LS to TSG SA on support from 3GPP Support Team.** Requests involvement of 3GPP support team in RAN WGs. The issue of support for STG-RAN and WGs will be raised by the chairman. The liaison statement was approved.

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## 13. Output to other groups

**Tdoc 231. Liaison statement to ERC TG1.** Reply to their liaison statement in document RP-99120 (presentation in document RP-99121). The reply has been discussed in WG4 and on the email reflector, and is based on information in R4-99048, RP-99222 and RP-99223. It was agreed to send this liaison statement from TSG-RAN and copy to PCG.

Various outputs to ITU-R were agreed (see section 5.65 of this report).

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## 14. The way forward

The chairman encouraged the WGs to follow the milestones as previously agreed.

Please see annex C for meeting dates.

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## 15. Closing ( 15:00, April 23)

The chairman closed the meeting at 16:00 and thanked all delegates for their participation.

## Annex A: List of delegates

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## Annex B: List of documents

|          |   |                           |
|----------|---|---------------------------|
| RP-99180 | Agenda  | Chairman                  |
| RP-99181 | Liaison on UE physical layer capabilities                             | TSG R1                    |
| RP-99182 | Liaison statement on requirements on GSM/GPRS evolution for UMTS      | TSG S2                    |
| RP-99183 | LS on Need for inter-operator handover between UMTS and GSM           | TSG S1                    |
| RP-99184 | Answer to Liaison statement on UMTS Simultaneous Mode from SMG12      | TSG S1                    |
| RP-99185 | TSG RAN Work Program  | 3GPP support (I. Doig)    |
| RP-99186 | Structure and numbering of the of 3GPP specification series           | 3GPP support (I. Doig)    |
| RP-99187 | S3.10 UTRAN Iu Interface: General Aspects and Principles, v0.1.0      | Editor                    |
| RP-99188 | I3.02 Manifestations of Handover and SRNS Relocation v.0.1.0          | Editor                    |
| RP-99189 | Liaison statement from ITU-R TG 8/1                                   | CSELT                     |
| RP-99190 | Report of the last meeting of ITU-R TG 8/1                            | ITU Ad Hoc Contact Person |
| RP-99191 | Guidelines for the activity of ITU Ad Hoc                             | ITU Ad Hoc Contact Person |
| RP-99192 | Status Report   | ITU Ad Hoc Contact Person |
| RP-99193 | S3.01=25.401 UTRAN Overall Description                                | Editor                    |
| RP-99194 | S3.10=25.410 UTRAN Iu Interface: General Aspects and Principles       | Editor                    |
| RP-99195 | S3.11=25.411 UTRAN Iu interface Layer 1                               | Editor                    |
| RP-99196 | S3.12=25.412 UTRAN Iu interface signalling transport                  | Editor                    |
| RP-99197 | S3.13=25.413 UTRAN Iu interface RANAP signalling                      | Editor                    |
| RP-99198 | S3.14=25.414 UTRAN Iu interface data transport & transport signalling | Editor                    |
| RP-99199 | S3.15=25.415 UTRAN Iu interface user plane protocols                  | Editor                    |
| RP-99200 | S3.20=25.420 UTRAN Iur Interface: General Aspects and Principles      | Editor                    |
| RP-99201 | S3.21=25.421 UTRAN Iur interface Layer 1                              | Editor                    |

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| RP-99202 | S3.22=25.422 | UTRAN Iur interface signalling transport   | Editor  |
| RP-99203 | S3.23=25.423 | UTRAN Iur interface RNSAP signalling   | Editor  |
| RP-99204 | S3.24=25.424 | UTRAN Iur interface data transport & transport signalling for CCH data streams         | Editor  |
| RP-99205 | S3.25=25.425 | UTRAN Iur interface user plane protocols for CCH data streams                          | Editor  |
| RP-99206 | S3.26=25.426 | UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams | Editor  |
| RP-99207 | S3.27=25.427 | UTRAN Iur and Iub interface user plane protocols for DCH data streams                  | Editor  |
| RP-99208 | S3.30=25.430 | UTRAN Iub Interface: General Aspects and Principles                                    | Editor  |
| RP-99209 | S3.31=25.431 | UTRAN Iub interface Layer 1  | Editor  |
| RP-99210 | S3.32=25.432 | UTRAN Iub interface signalling transport   | Editor  |
| RP-99211 | S3.34=25.434 | UTRAN Iub interface data transport & transport signalling for CCH data streams         | Editor  |
| RP-99212 | S3.35=25.435 | UTRAN Iub interface user plane protocols for CCH data streams                          | Editor  |
| RP-99213 | I3.01=25.4xx | UTRAN Functions, examples on signalling procedures                                     | Editor  |
| RP-99214 | I3.02=25.4xx | Manifestations of handover and SRNS relocation   | Editor  |
| RP-99215 | I3.03        | TSG RAN WG3 Work Plan and Study Items  | Editor  |
| RP-99216 | I3.04        | TSG RAN WG3 Study Items for Future Release   | Editor  |
| RP-99217 | I3.05        | NodeB O&M Functional Descriptions  | Editor  |
| RP-99218 |              | Status Report RAN WG3 13 April 1999  | RAN WG3 Chairman  |
| RP-99219 |              | Radio Interface Specifications for IMT-2000  | ERICSSON, NOKIA   |
| RP-99220 |              | Consolidated Draft Work Plan for IMT-2000 Network Aspects in ITU-T                     | Program Manager,<br>IMT-2000 Network-related studies in ITU-T |
| RP-99221 |              | UMTS Vocabulary document   | Motorola  |
| RP-99222 | 25.101       | MS Radio transmission and reception (FDD) - V2.0.0                                     | Chairman WG4  |
| RP-99223 | 25.104       | BTS Radio transmission and reception (FDD) - V2.0.0                                    | Chairman WG4  |
| RP-99224 | 25.102       | MS Radio transmission and reception (TDD)  | Chairman WG4  |

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| RP-99225 | 25.105 BTS Radio transmission and reception (TDD)                                    | Chairman WG4                               |
| RP-99226 | 25.103 RF parameters in support of RRM - V2.0.0                                      | Chairman WG4                               |
| RP-99227 | 25.141 Basestation conformance testing (FDD) - V1.0.0                                | Chairman WG4                               |
| RP-99228 | WG4 status report  | Chairman WG4                               |
| RP-99229 | WG4 proposed workplan  | Chairman WG4                               |
| RP-99230 | S3.33 V0.1.0   | Editor                                     |
| RP-99231 | Draft Liaison statement to ERC TG1   | Simon Pike (rapporteur<br>WG4 Ad Hoc 33)   |
| RP-99232 | TSG RAN WG1 - Chairman's report  | RAN WG1 Chairman                           |
| RP-99233 | TS S1.01 V2.0.0 (1999-04)  | RAN WG1                                    |
| RP-99234 | TS S1.11 V2.0.0  | RAN WG1                                    |
| RP-99235 | TS S1.12 V2.0.0 (1999-04)  | RAN WG1                                    |
| RP-99236 | S1.13 V 2.0.0  | RAN WG1                                    |
| RP-99237 | 3GPP RAN S1.14 V2.0.0 (1999-04)  | RAN WG1                                    |
| RP-99238 | TS S1.21 V. 2.0.0  | RAN WG1                                    |
| RP-99239 | TS 1.22 V2.0.0   | RAN WG1                                    |
| RP-99240 | TS S1.23 V2.0.0 (1999-04)  | RAN WG1                                    |
| RP-99241 | 3GPP (S1.24) V2.0.0 1999-04  | RAN WG1                                    |
| RP-99242 | S1.31 version 2.0.0  | RAN WG1                                    |
| RP-99243 | Withdrawn  |  |
| RP-99244 | Proposed Liaison Statement on document numbers and version conventions               | RAN 4                                      |
| RP-99245 | LS on Future definition of UE power classes  | RAN 4                                      |
| RP-99246 | Liaison statement on carrier frequency raster  | RAN 4                                      |
| RP-99247 | Performance Evaluation of Adaptive Antennas in UTRA                                  | Motorola                                   |
| RP-99248 | Introduction of the Chinese Narrowband key Parameters and Features for UTRA-TDD Mode | ARIB, CATT,<br>DOCOMO,<br>ERICSSON, NOKIA, |

|          |   |                              |
|----------|---|------------------------------|
|          |   | PANASONIC, RITT,<br>SIEMENS  |
| RP-99249 | Radio Interface Specifications for IMT-2000   | ITU Ad Hoc                   |
| RP-99250 | Revision of Recommendation ITU R M 1079   | ITU Ad Hoc                   |
| RP-99251 | Proposed contribution to ITU R TG 8/1 on TDD harmonisation developments within 3GPP | NOKIA                        |
| RP-99252 | Proposed Liaison Statement to TSG SA  | ITU Ad Hoc Contact<br>Person |
| RP-99253 | Proposed Liaison Statement to the 3GPP Organisational Partners                      | ITU Ad Hoc Contact<br>Person |
| RP-99254 | Responsibility for conformance tests method and minimum performance requirements    | RAN WG1                      |
| RP-99255 | TR R1.01 V. 0.1.0   | RAN WG1                      |
| RP-99256 | Liaison statement to WG2 on FACH rates  | RAN WG1                      |
| RP-99257 | Status report of RAN WG2  | RAN WG2 Chairman             |
| RP-99258 | Deliverables and worlplan for TSG RAN WG2   | RAN WG2                      |
| RP-99259 | S2.01 Radio Interface Protocol Architecture   | RAN WG2                      |
| RP-99260 | S2.02 Services provided by the physical layer                                       | RAN WG2                      |
| RP-99261 | S2.04 UE functions and inter-layer procedures in connected mode                     | RAN WG2                      |
| RP-99262 | S2.04 UE procedures in Idle mode  | RAN WG2                      |
| RP-99263 | S2.21 MAC protocol specification  | RAN WG2                      |
| RP-99264 | S2.22 RLC protocol specification  | RAN WG2                      |
| RP-99265 | S2.31 RRC protocol specification  | RAN WG2                      |
| RP-99266 | R2.01 Guidelines and principles for protocol description and error handling         | RAN WG2                      |
| RP-99267 | R2.02 RRM strategies  | RAN WG2                      |
| RP-99268 | R2.03 Location services features  | RAN WG2                      |
| RP-99269 | R2.05 ODMA  | RAN WG2                      |
| RP-99270 | The LS answer to TSG-T2 on Baseline Terminal Capabilities                           | TSG-RAN WG4                  |

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|--------------------------|---|---|
| RP-99271                 | Page 6 Tdoc RP-99240  | RAN WG1   |
| RP-99272                 | 25.101 MS Radio transmission and reception (FDD) - V2.0.0 (Replaced Tdoc RP-99222)                  | Chairman WG4                                      |
| RP-99273                 | Agreed updated TSG RAN WG1 work plan  | RAN WG1 Chairman                                  |
| RP-99274                 | Open Interface; lu, lub and lur   | GSM Association<br>Plenary                        |
| <a href="#">RP-99275</a> | <a href="#">Proposed LS to TSG-T, TSG-RAN, TSG-CN, TSG-SA on Support of SMS</a>                     | <a href="#">TSG-T2-SWG3</a>                       |
| <a href="#">RP-99276</a> | <a href="#">S4.01 A</a>   | <a href="#">Chairman WG4</a>                      |
| <a href="#">RP-99277</a> | <a href="#">S4.01 B</a>   | <a href="#">Chairman WG4</a>                      |
| <a href="#">RP-99278</a> | <a href="#">S4.02 A</a>   | <a href="#">Chairman WG4</a>                      |
| <a href="#">RP-99279</a> | <a href="#">S4.02 B</a>   | <a href="#">Chairman WG4</a>                      |
| <a href="#">RP-99280</a> | <a href="#">S4.03</a>   | <a href="#">Chairman WG4</a>                      |
| <a href="#">RP-99281</a> | <a href="#">S4.11</a>   | <a href="#">Chairman WG4</a>                      |
| <a href="#">RP-99282</a> | <a href="#">Proposed contribution to ITU-R TG 8/1 on TDD harmonisation developments within 3GPP</a> | <a href="#">TSG RAN</a>                           |
| <a href="#">RP-99283</a> | <a href="#">Proposed liaison to TSG SA</a>  | <a href="#">TSG RAN</a>                           |
| <a href="#">RP-99284</a> | <a href="#">Revision of Recommendation ITU-R M.1079</a>   | <a href="#">TSG RAN</a>                           |
| <a href="#">RP-99285</a> | <a href="#">Radio Interface Specifications for IMT-2000</a>   | <a href="#">TSG RAN</a>                           |
| <a href="#">RP-99286</a> | <a href="#">Proposed liaison to the 3GPP Organizational Partners</a>                                | <a href="#">TSG RAN</a>                           |
| <a href="#">RP-99287</a> | <a href="#">UMTS 30.01 version 3.6.0, SMG's UMTS Baseline Document</a>                              | <a href="#">ETSI SMG</a>                          |
| <a href="#">RP-99288</a> | <a href="#">UMTS 30.00 version 3.7.0, SMG's UMTS Work Program</a>                                   | <a href="#">ETSI SMG</a>                          |
| <a href="#">RP-99289</a> | <a href="#">TS S1.12 V2.0.10</a>  | <a href="#">RAN WG1</a>                           |
| <a href="#">RP-99290</a> | <a href="#">TS 1.22 V. 2.0.1</a>  | <a href="#">RAN WG1</a>                           |
| <a href="#">RP-99291</a> | <a href="#">Example 3GPP Specifications status list</a>   | <a href="#">3GPP Support Group</a>                |
| <a href="#">RP-99292</a> | <a href="#">ID Report</a>   | <a href="#">3 GPP Support Group,<br/>Ian Doig</a> |
| <a href="#">RP-99293</a> | <a href="#">R 4.01 V. 0.0.2 RF System scenarios</a>   | <a href="#">Chairman WG4</a>                      |

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|-----------------|--|---------------------------------------|--|
| <u>RP-99294</u> | <u>Radio Interface Specifications for IMT-2000</u>             | <u>TSG RAN</u>                        |  |
| <u>RP-99295</u> | <u>Proposed liaison to the 3GPP Organizational Partners</u>    | <u>TSG RAN</u>                        |  |
| <u>RP-99296</u> | <u>Proposed LS to TSG SA on support from 3GPP support team</u> | <u>TSG RAN WGs</u><br><u>Chairmen</u> |  |

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## Annex C: Meeting schedule

### TSG-RAN

|       | Date   | Host                  | Location                                   |
|-------|--|-----------------------|--|
| RAN#4 | 17 - 18 June, 1999                           | GSM N America members | Wyndham Miami-Biscayne Bay, Miami, FL, USA |
| RAN#5 | 6 - 8 October, 1999                          |                       | Korea or Japan?                            |
| RAN#6 | 13-17 December, 1999 ?                       |                       |  |
|       | 13 - 15 March, 2000                          |                       |  |
|       | 5 - 9 June 2000 (in conjunction with SMG#32) | Mannesmann            | Berlin                                     |
|       | 25 - 29 September, 2000                      |                       |  |
|       | 11 - 15 December, 2000                       |                       |  |

### RAN WG1

| Date                          | Host  | Location |
|-------------------------------|-------|----------|
| 1-4 June 1999                 | TTA   | Korea    |
| 12-16 July 1999               | Nokia | Finland  |
| 31 August - 3 September 1999  |       |          |
| 12 - 15 October 1999          |       |          |
| 30 November - 3 December 1999 |       |          |

### RAN WG2

| Date             | Host | Location |
|------------------|------|----------|
| 25 - 28 May 1999 |      |          |
| 5 - 9 July 1999  |      |          |
|                  |      |          |
|                  |      |          |

### RAN WG3

| Date                 | Host              | Location |
|----------------------|-------------------|----------|
| 26 - 30 April 1999   | Fujitsu           | Japan    |
| 31 May - 4 June 1999 | Lucent + Motorola | Swindon  |



|                        |       |                   |
|------------------------|-------|-------------------|
| 5 - 9 July 1999        | Nokia | Helsinki, Finland |
| 23 - 27 August 1999    | ETSI  | Sophia Antipolis  |
| 20 - 24 September 1999 |       |                   |
| 25 - 29 October 1999   |       |                   |
| 6 - 10 December 1999   |       |                   |

**RAN WG4**

| <b>Date</b>    | <b>Host</b>           | <b>Location</b>   |
|----------------|-----------------------|-------------------|
| 10 - 12 May    | Ericsson              | Stockholm, Sweden |
| 14 - 16 June   | GSM N America members | Miami, USA        |
| 27 - 29 July   | Hewlett Packard       | Edinburgh, UK     |
| 7 - 9 Sept     | Fujitsu               | Makuhari, Japan   |
| 19 - 21 Oct    |                       |                   |
| 30 Nov - 2 Dec |                       |                   |