

**Agenda Item:**

**Source:** Ericsson

**Title:** Proposal for TSG RAN WG1 work plan (revised)

**Document for:**

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## 1 Introduction

In order to progress the work within TSG RAN WG1 and ensuring that a full specification is available at the end of 1999, the work has to be planned and scheduled. Some parts of the specification require more attention from the start since other groups are dependent on those parts, while other parts are not so time critical. Also, things that are very near completion should be finalised soon, not dragging these items along during the whole year and then having to finalise everything in December. Also, milestones are required to be able to monitor if work is progressing according to plans.

This document discusses the meeting schedule, proposes a work plan and also a set of milestones. Note that similar proposals for meeting schedule, milestones and version numbering have been submitted to and accepted by WG2, WG3 and WG4. This revised version of [2] contains an additional milestone in April, and some deadlines in the actual work plan have been changed.

## 2 Meeting schedule

TSG RAN WG1 meetings should be held often enough to be able to progress the work on the meetings. On the other hand, with too little time between meetings, there is not enough time for the editors to do the editing work, arranging ad hoc meetings on particular subjects that needs special treatment, preparing input documents and doing technical evaluations, etc. Moreover, there will also be TSG RAN meetings to attend. A reasonable frequency of TSG RAN WG1 meetings could be one meeting roughly every six weeks. Of course the work and milestone plan should be aligned with the meeting schedule, but since the exact schedule for the entire year is yet unknown, the dates in the plans below have been quantized to the nearest month. With a meeting schedule fixed, it is possible to distribute the milestones to individual meetings.

## 3 Milestones

The proposed work plan and milestones are based upon the specification proposal described in [1], that was accepted at the last WG1 meeting. Hence, for a more detailed explanation of the scope of the specification documents, please refer to [1]. For each specification document three milestones are set up, corresponding to finalisation and approval of main versions of the document. The first milestone is when the draft specification document is first approved by the TSG RAN in April. The second milestone is when the more stable specification document covering all issues within the scope of the document is approved by TSG RAN. The third milestone is the final specification in end of 1999, i.e. the "Release 99". Before the third milestone, the different specification documents can be approved by the TSG RAN more than one time, depending on the document's status. In Release 99, the version numbers will probably be aligned.

### 3.1 Specification document version numbering

The specifications in the work plan are version numbered according to a three digit numbering system. The first digit is increased when a new version is approved by TSG RAN. The second digit is increased when a new version is approved by WG1. The last digit is raised after every new version released by the editor provided that the new version is not of any of the previously mentioned types. For example, version V0.0.1 is the first version of the specification created by the editor. Version V0.1.0 is the first version approved by WG1 and V1.0.0 is the first version approved by TSG RAN (i.e. corresponds to the first milestone).

## 4 Work and milestone plan

For each specification document several tasks can be identified, each of which has to be finished before the whole specification document can be approved. An example of a task is "physical channel timing relationship" in the "Transport channels and physical channels" specification document. In the work plan, some tasks are scheduled to end during the first part of the year. This does not mean that such a part of the specification cannot be changed later during the year if there are very good reasons for doing so, but the main work effort should be put on the specific item up to the task deadline, so that that specification part can be viewed as stable.

In general, TDD is behind FDD, but work on the TDD mode may benefit from the FDD discussions and copying/altering FDD solutions.

The proposed work plans are found in the tables below, where the following symbols are used:

- 1** Version 1.0.0 of the document approved, for the draft specification in April (milestone 1)
- 2** Document covering all the issues within its scope approved by RAN TSG (milestone 2)
- 3** Release 99 of the document approved (milestone 3)
- X** Task finalised, i.e. no more work is expected on this topic.

on and tasks	J	F	M	A	M	J	J	A	S	O	N	D
	a	e	a	a	a	u	u	u	e	c	o	e
	n	b	r	r	y	n	l	g	p	t	v	c
<b>ysical layer general description</b>				<b>1</b>						<b>2</b>		<b>3</b>
arts							X					
arts									X			
<b>capabilities</b>				<b>1</b>						<b>2</b>		<b>3</b>
arts						X						
arts									X			

**Table 1: Work plan, general WG1 specifications.**

on and tasks	J	F	M	A	M	J	J	A	S	O	N	D
	a	e	a	p	a	u	u	u	e	c	o	e
	n	b	r	r	y	n	l	g	p	t	v	c
<b>transport channels and physical channels (FDD)</b>				1					2			3
port channels definition				X								
al channels definition					X							
ng						X						
g relationship between physical channels							X					
<b>ultiplexing and channel coding (FDD)</b>				1					2			3
<ul style="list-style-type: none"> <li>Multiplexing scheme</li> </ul>											X	
<ul style="list-style-type: none"> <li>Multiplexing limitations</li> </ul>											X	
<ul style="list-style-type: none"> <li>Channel coding</li> </ul>											X	
<ul style="list-style-type: none"> <li>Channel interleavers</li> </ul>											X	
<b>reading and modulation (FDD)</b>				1					2			3
elization and scrambling				X								
reamble codes					X							
onization codes				X								
ation					X							
<b>ysical layer procedures (FDD)</b>				1					2			3
ontrol						X						
onization				X								
m access					X							
ick mode transmit diversity				X								
						X						
<b>asurements (FDD)</b>				1					2			3
rements in idle mode						X						
rements in connected mode							X					
link measurements							X					

Table 2: Work plan, FDD mode WG1 specifications.

on and tasks	J	F	M	A	M	J	J	A	S	O	N	D
	a	e	a	p	a	u	u	u	e	c	o	e
	n	b	r	r	y	n	l	g	p	t	v	c
<b>transport channels and physical channels (TDD)</b>				1						2		3
port channels definition					X							
al channels definition, mapping and slot format							X					
ng								X				
g relationship between physical channels							X					
<b>ultiplexing and channel coding (TDD)</b>				1						2		3
lexing scheme						X						
lexing limitations						X						
el coding					X							
el interleavers						X						
<b>reading and modulation (TDD)</b>				1					2			3
odulation					X							
ing						X						
<b>ysical layer procedures (TDD)</b>				1						2		3
hronisation						X						
								X				
g advance					X							
ontrol								X				
ode tasks								X				
<b>- Measurements (TDD)</b>				1						2		3

**Table 3: Work plan, TDD mode WG1 specifications.**

Note: The TDD work plan table should be revised in accordance with the TDD ad hoc conclusions and progress.

## 5 Work plan fulfilment

In order to be able to meet the (tight) deadlines and progress the work within the group in an effective way, it is essential that a meeting schedule is decided upon so that planning for each meeting can be done. Although outside WG1's control, it would be very good to also set the TSG RAN meeting schedule, since it is that group that will approve the X.0.0 versions of the documents. The WG1 work plan can then be adapted to the TSG RAN meeting schedule, making sure that the right documents are finalised in time.

It is also important to assign permanent editors for each specification document as soon as possible. One of the most important tasks the editor will have is to ensure that the structure of the document is very specification-like. To transform the available documentation to something acceptable as specification by the end of the year requires a lot of thinking and initiatives from the editors.

To ensure that the different specification documents are written in a similar style, and that consistency between documents is achieved, it is proposed to form an editing group, consisting of the editors and other interested parties (possibly from other WGs). The main forum for discussion in this group will be through e-mail, using an e-mail reflector.

## 6 Conclusion

It is proposed that TSG RAN WG1 should have meetings roughly once every six weeks. Moreover, a work plan and milestone plan has been presented, and it is proposed that these plans are adopted by WG1 for the continuing work during 1999. Similar work plans, created using the same principles, have been accepted also for the other WGs.

In order to accelerate the work, it is proposed to schedule the meetings and assign permanent editors for the specification documents as soon as possible, preferably on this meeting.

## References

- [1] TSGR1#1(99)005, "Proposal for TSG RAN WG1 specification structure", Ericsson.
- [2] TSGR1#1(99)006, "Proposal for TSG RAN WG1 work plan", Ericsson.