TSG-RAN Working Group 4 (Radio) meeting #2   ***TSGW4#2(99)025***
Turin 15 - 19 Feb 1999

Agenda Item: 4

Source: Convenor

Title: Meeting report from TSG RAN WG 4 #1

Document for: Approval

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1.   Opening of the meeting (9:00 Thursday)

The WG 4 convenor, Howard Benn, Motorola, chaired the meeting and produced the meeting report. The chairman gave a presentation on logistics and working procedures. This is available on the 3GPP server as document number 18/99.

2.   Approval of the agenda

Agenda approved.

3.   Appointment of secretary

David Cooper of Telecom Modus volunteered for position of secretary for the next 2 meetings. Unfortunately he could not attend the meeting. His appointment will be confirmed via the email reflector before the next meeting.

4.   Presentation from 3GPP members (SDO's) of own existing documentation

2/99 - The latest Mobile Station specifications of ARIB Volume4 "Specifications of Mobile Station for 3G Mobile System (Ver.1.0-1.0), ARIB.

Mr Hamada and Mr Honda, ARIB SWG4, gave a detailed presentation on the RF specifications, giving the section headings and parameter values.

Mr Nagata requested that the parameters from vol. 4 be passed into WG4, this will be covered in document 13/99

13/99 - Baseline document proposal from ARIB SWG 4, ARIB

This document highlighted the sections of Vol 4 that should be covered by WG 4.

3/99 - The latest Base Station specifications of ARIB Volume5 "Specifications of Base Station for 3G Mobile System (Ver.1.0-0.1)", ARIB.

Mr Ito, ARIB SWG5, presented the contents and parameters from vol.5.

ARIB confirmed that they have stopped working on this document.

Dr El-Saigh, Vodafone, asked about the section on operations and maintenance scope. Mr Ito replied that this is a title only in the current version. Dr El-Saigh welcomed this section, as this is a feature operators see as essential.

Mr Nagata highlighted the differences in status between Vol 4 and 5. Volume 4 has a greater number of defined parameters because the mobile specification should include more specific values for type approval for example. Volume 5 has more parameters that have not been defined because the paramenters of BTS have some possibilities for the flexibility of operators .

7/99 - XX.06, ETSI layer 1 expert group.

8/99 - XX.12, ETSI layer 1 expert group.

Mr Fernandes, Motorola and editor, presented these documents together.

There were no questions.

10/99 - XX.17, ETSI layer 1 expert group

Dr El-Saigh presented the document.

DoCoMo asked on the number of scenarios covered by the document. There are 5 scenarios.

The chairman asked if any other ETSI documents needed to be considered by WG 4.

Dr El-Saigh, Vodafone, asked about XX.21 - terminal capability classes. The chairman will ask the convenors of the RAN and Terminals TSG about which of the working groups will take on this work. No other documents were put forward.

CSELT underlined that in the WG4 Terms of Reference the "**protocol <u>aspects from a system point of view</u>**" are clearly mentioned. CSELT commented the importance to clarify, as soon as possible, the field of competence of the WG4 with regard to the protocol aspects from a system point of view. Observing the absence of any documentation on system level protocol performance, CSELT proposed to write a liaison statement to WG2 (tdoc 16/99) asking for information on existing documentation and/or on existing protocol aspects and parameters that could be treated inside the WG4.

The chairman asked if any of the other SDOs had documents that needed to be considered by WG 4. The delegates did not know of any.

5.   Proposals for the WG4 documentation structure and scope

11/99 - Proposal on a specification alignment, TSG RAN Chairman.

Mr Kar, Mitsubishi, asked if T1 would agree, since they have no participants we can only assume they accept the output of this committee.

Mr Kar requested that we have a list of specifications that relate to the mobile and basestation. Mr Skold, Ericsson, stated this was a high level specification, and would be more suited to the RAN TSG.

Dr El-Saigh, commented that that it is probably better not to split receive and transmit. It was agreed to stay with the current ETSI structure.

Mr Nagata requested we use the ARIB content, as it is more complete that the ETSI documentation. This will be discussed in more detail in agenda item 6.

4/99 - Proposal for TSG RAN WG 4 specification structure, Ericsson.

Mr Skold presented the document.

Dr El-Saigh requested that parameters in the RF specifications be derived from the scenarios. He informed the meeting that, that was the process adopted in ETSI layer 1 expert group for deriving the RF parameters.

The chairman created a document list (17/99) with inputs from the complete meeting. During the drafting of this document a number of comments and questions were received.

CSELT highlighted that a clarification was occuring inside the WG4 about the opportunity of treating protocol aspects from a system point of view and that there was no document on protocol aspects from a system point of view. A new document S4.03 System level protocol aspects was added to the list. This will be discussed at a future meeting, as the scope of this document was unclear. Mr Nagata asked what purpose this document would serve. CSELT replied that, taking into account the ongoing discussion on the WG4 terms of reference, the content of this document should be discussed among all the delegates of the WG4; CSELT said, as istance, that the document could contain information such as the value of timers needed to implement the protocol timeouts. Dr El-Saigh mentioned that such a document could handle issue along the lines of what is in GSM 05.08 such Radio Link Timeout and Downlink Signalling Failure. i.e., such a document will specify the behaviour of the mobile in abnormal conditions (as well as normal). Mr Skold suggested it should be a report, the meeting agreed to keep it as a specification at the moment. Delegates were encouraged to provide inputs on this subject for the next meeting.

Ms Benabdallah, Omnitel, requested an introduction document be added to the list. This was agreed and report R4.00 Introduction, was added to the list.

The chairman suggested that a document on conformance testing would be needed. Specifications S4.11 Basestation conformance testing (FDD), and S4.12 Basestation conformance testing (TDD) were added to the list.

Mr Kar asked if TDD and FDD should be split, giving the example of dual mode basestations. It was agreed to maintain two documents but to try and ensure as much commonality was maintained as possible.

There was confusion about the EMC issues, especially those related to the mobile. A LS will be written to TSG T WG 1 and WG 2, tdoc 18/99. The meeting decided to add a new specification S4.13 Basestation EMC. Mr Nagata asked if mobile station EMC specification fell into the remit of this group, it was felt that it did not. He requested that the terminals TSG be made aware of this so it did not get lost.

The agreed document list is

R4.00 Introduction
S4.01 Radio transmission and reception (FDD)
S4.02 Radio transmission and reception (TDD)
(S4.03 System level protocol aspect) to be discussed at joint meeting
S4.11 Basestation conformance testing (FDD)
S4.12 Basestation conformance testing (TDD)
S4.13 Basestation EMC
R4.01 RF System scenarios

The chairman asked for suggestions on the scope of each of these documents. It was agreed to use the ETSI document scope for S4.01, S4.02, and R4.01. The other documents, except S4.03, had scopes suggested and approved.

Mr Pike, Lucent and chair ETSI SMG 8 (BTS conformance testing) informed the meeting on the current conformance test documentation in ETSI. There are 5 documents

RF testing (specification)

Environmental testing (report)
Protocol testing on Abis interface
Transcoders
Repeaters

For European type approval testing he suggested that great care is required to ensure the conformance documents are in the correct format to create type approval documents that conform to the new European directive.

Mr Kar recommended that we try to split technical conformance testing from regulatory testing.

6/99 - Project team support for WG 1/4, Mannesmann Mobilfunk.

This document encouraged working groups to use ETSI support staff. It was noted. Mr Pike supported this, but stated that the editorial and technical work should be split, and that the secretariat did not have technical expertise. He suggested the an ETSI STF would be useful in preparing the conformance test specifications.

6.   Incorporation of material from 3GPP members in the WG4 documentation

9/99 - Comparison of ARIB and ETSI radio specifications, Motorola.

Dr El-Saigh requested that the document be reviewed in detail. ARIB thought that this would be of little value at this meeting since the reference documents used was not up to date. In was agreed to have the document for information only.

Mr Pike commented on the environment test conditions for mobiles are probably outside the scope of this meeting. We need to careful in mandating BTS environmental conditions.

Mr Kar commented on the next step forward. He requested ARIB fill the ETSI document with their values. It was agreed to discuss this in more detail after document 14/99.

14/99 - Incorporation of material from ETSI and ARIB for 3GPP MS and BS radio requirements (FDD)

Comments from ARIB. There was concern that parts of the current ARIB specifications do not get lost.

After a long discussion it was agreed to split in two adhoc groups, one looking at the basestation and on looking at the mobile. Mr Skold volunteered to edit and chair the basestation group, and Mr Fernandes volunteered to edit and chair the mobile group. These groups will produce the baseline documents

20/99 - List of radio parameters from ETSI and ARIB, MS ad-hoc group.

Mr Fernandes presented the list of sections from the ARIB and ETSI documents which cover the same area.

Item 12 EMC, Mr Kistowski, T-Mobil, commented that this should go to the terminals TSG. Mr Pike suggested that the definition of EMC was very different between Europe and Japan. He volunteered to bring some of the European specification along to the next meeting.

Item 7, Mr Nagata suggested that this is section is removed because this seems completely to be an item of TSG-T Question on 6.2.1 on the spurious out requirements, it was unclear which specification this will end up in.

Question from Mr Nagata on environmental, EMC and Safety. He suggested that these fall into the WG 1 and 2 of the terminals TSG. It was suggested that this area should be covered in the next RAN

21/99 - List of radio parameters from ETSI and ARIB, MS ad-hoc group.

Mr Skold presented the output document from the BTS ad-hoc group. An editorial change was made to the ARIB section heading, the word MS is replaced by BTS

No questions

7. Proposals for RF parameters (This will only be covered is time permits)

1/99 Measurement of MS Adjacent Channel Selectivity, Ericsson.

This paper was presented for information, and will be covered in more detail at the next meeting.

Mr Fernandes asked it this was different than the current proposals. It was stated that it was a more detailed paper.

12/99 - MS RX sensitivity in UTRA FDD, Nokia.

This paper was presented for information, and will be covered in more detail at the next meeting.

8. Liaison and output to other groups

16/99 LS to WG 2 on system level protocol aspects

Mr Franceschini, CSELT, presented the LS.

Mr Fernandes suggested we add WG 1 to the TO: list. This was agreed

Approved with the editorial change.

18/99 LS on EMC to TSG T WG 1and WG2

Mr. Van de Berg presented this LS.

Mr Fernandes suggested that it be copied to ERM. It was decided not to do this

Approved.

9. Work plan and future meetings

15/99 Proposal for WG 4 workplan, Ericsson.

Nokia asked if table 1 had taken the request for input into the ITU into account. Mr Pike suggested that we have to work on parameters that can be measured, rather than simulation parameters.

Mr Kottkamp, Siemens, suggested to have adhocs during WG 4 meetings as far as possible. If additional adhocs are needed, the meeting date and scope of the adhoc should be decided in WG4 plenary meeting. It was agreed that adhoc groups can meet in addition the WG 4 meeting, but we should aim to keep these to a minimum and use email where possible.

22/99 Suggested time plan, ARIB.

Mr Sasaki presented the paper.

Both documents were discussed together.

It was suggested that we add the proposed timescales in a temporary section in R4.00.

Future meetings.

- RAN WG 4, 15 - 19 Feb 99, Turin
- RAN 1 - 4 March 99, Dallas
- RAN WG 4, 29 - 31 March, host required (Japan)

Nokia requested that a joint meeting be held with WG 1 to discuss joint issues such as channel models. Vodafone and Omnitel stated that parallel meetings where unacceptable as some companies only had a single delegate. This will be discussed at the joint WG 1/WG 4 meeting.

10.   Any other business

5/99 - ITU adhoc group report, ITU adhoc group.

Mr Magnani, CSELT presented a report on the ITU adhoc group.

Mr Barker, AMD, asked what would happen if we did not have an input ready in time. Mr Magnani replied that the ITU would approve the key RF parameters without taking into account our needs.

It was agreed that we review the RKEY tables in our next meeting, and try to ensure we complete our work on the setting of the key RF parameters before the Brazil TG8/1 meeting

17/99 - Slide pack with document structure. Chairman

This will be presented to the joint meeting with WG 1.

Approved.

11.   Joint meeting with WG1 (1PM Friday)

This will be covered in the WG 1 meeting report

12.   Closing of the meeting (3PM Friday)

The chairman thanked Nokia for providing the meeting facilites, then closed the meeting.

Annex 1 - Document list

Document list for 3GPP TSG RAN WG 4 Meeting #1

Doc No.	Title	Author	Agenda
1	Measurement of MS Adjacent Channel Selectivity	Ericsson	7
2	The latest Mobile Station specifications of ARIB Volume4 "Specifications of Mobile Station for 3G Mobile System (Ver.1.0-1.0)	ARIB	4
3	The latest Base Station specifications of ARIB Volume5 "Specifications of Base Station for 3G Mobile System (Ver.1.0-0.1)"	ARIB	4
4	Proposal for TSG RAN WG4 specification structure	Ericsson	5
5	ITU adhoc group report	ITU Adhoc chair	7
6	Project team support for WG 1/4	Mannesmann	5

			Mobilfunk	
7	XX.06		ETSI Layer 1	4
8	XX.12		ETSI Layer 1	4
9	Comparison of ARIB and ETSI radio specifications		Motorola	6
10	XX.17		ETSI Layer 1	4
11	Proposal on a specification alignment		TSG RAN Convenor	5
12	MS RX sensitivity in UTRA FDD		Nokia	7
13	Baseline document proposal from ARIB SWG 4		ARIB	4
14	Incorporation of material from ETSI and ARIB for 3GPP MS and BS radio requirements (FDD)		Ericsson, Nokia	6
15	Proposal for WG 4 workplan		Ericsson	9
16	LS to WG 2 on system level protocol aspects			
17	Agreed document structure and scope		Chair	
18	LS on EMC to TSG T WG 1			
19	Introduction slide pack		Chair	1
20	List of radio parameters from ETSI and ARIB		MS adhoc group	
21	Mapping of ARIB and ETSI BTS specifications		BTS adhoc group	
22	Suggested time plan		ARIB	

Annex 2 - Attendee list

Name	Company	Country
Auvray Gerard	Alcatel	France
Azuma Tomohira	NEC	Japan
Barck Esa	Nokia	Finland
Benabdallah Nadia	Omnitel	Italy
Benn Howard	Motorola	UK
Bernhard Raaf	Siemens	Germany
Boos Zdravko	Siemens	Germany
Cooke Stuart	Nokia	UK
Davidian Jean-Jacques	DoCoMo	France
El-Saigh Amer	Vodafone	UK
Fernandes Edgar	Motorola	UK
Franceschini Daniele	CSELT	Italy
Fukuda Eisuke	Fujitsu	UK
Green Steve	Dept of Trade	UK
Hamada Kunihiro	Motorola	Japan
Harrold Colin	BT	UK
Hiromichi Toda	Anritsu	Japan
Hoehn Volker	Mannesmann	Germany
Honda Tsutomu	Ericsson	Japan
Hunt Bernard	Philips	UK
Ito Kenji	Siemens	Japan
Iwasa Masaaki	Motorola	Japan
Jokinen Sami	Nokia	Finland
Kar Radi	Mitsubishi	France
King Chris	Samsung	UK
Kistowski Dirk	T-Mobil	Germany
Kottkamp Meik	Siemens	Germany
Lehtinen Otto	Nokia	Finland
Leino Anne	Nokia	Finland
Lilja Harri	Nokia	Finland
McFarland David	Nokia	UK
McNicol John	Nortel	France

Mellein Heinz	Rohde and Schwarz	Germany
Nagata Kiyohito	DoCoMo	Japan
Nilsson Johan	Ericsson	Germany
Numminen Jussi	Nokia	Finland
Pike Simon	Lucent	UK
Sasaki Akio	ARIB	Japan
Schneider	Siemens	Germany
Skold Johan	Ericsson	Sweden
Stanbridge Iain	Orange	UK
Tadao Takami	DoCoMo	Japan
Truelove Stephen	NEC	UK
Ueda Takashi	DoCoMo	Japan
Van de Berg Peter	Ericsson	Sweden
Vo-Viet Anh	France Telecom	France
Wells Patricia	Telecom Modus	UK
Wilde Andreas	Ericsson	Japan