TSG-RAN Meeting #7
Madrid, Spain, 13 – 15 March 2000

RP-000033

Source :   RAN WG2 Chairman

Object :   Status report for RAN WG2

1   Introduction

This document contains the status report of 3GPP TSG RAN WG2 at RAN#7.

The progress has been important since RAN#6, with a completion of almost all the outstanding items related to release 99. Among the items which were completed since the last RAN plenary meeting are the following:

- Downlink power control
- Hierarchical cell structure for cell selection and re-selection
- Cell selection and re-selection between GSM and UMTS
- LCS stage 2 and radio interface signaling
- CPCH
- Alignment of RACH and CPCH model
- ASN.1 description of RRC messages
- GSM to UMTS Handover
- The report on UE capabilities 25.926
- SRNS relocation
- Cell Broadcast Service

No architectural changes have been proposed on the items which were complete in December, which reflects a good stability of the release 99 in RAN WG2. A similar stability can be expected after the completion reached for RAN#7.

The protocol documents are now fairly stable. Regarding RRC, an important correction phase is now ahead of us.

No work on release 00 has started yet.

The following contains the status for each report or specification from RAN WG2.

2   25.301

2.1   Status of the document

Document is stable and complete

2.2   Change Requests presented for approval

The following CRs are in RP-000034:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000213	25.301	032		Correction of the CFN length	F	3.3.0	3.4.0
R2-000568	25.301	034		Removal of SCH	F	3.3.0	3.4.0

3 25.302

3.1 Status of the document

Document is stable and complete.

3.2 Change Requests presented for approval

The following CRs are in RP-000035:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000273	25.302	032	2	Revision of CPCH model	C	3.3.0	3.4.0
R2-000190	25.302	033	1	Error Correction Coding for FACH	B	3.3.0	3.4.0
R2-000648	25.302	034	3	Revision of compressed mode	C	3.3.0	3.4.0
R2-000246	25.302	036		TrBLK size	D	3.3.0	3.4.0
R2-000346	25.302	037		PDSCH multi-code	F	3.3.0	3.4.0
R2-000532	25.302	038	1	Primitives for CPCH Abnormal Situation	B	3.3.0	3.4.0
R2-000399	25.302	039		Physical channel BER	F	3.3.0	3.4.0
R2-000439	25.302	041		Editorial modification on AMR trblk size	F	3.3.0	3.4.0
R2-000501	25.302	042	1	Corrections and clarifications on L1 and	F	3.3.0	3.4.0
R2-000528	25.302	043	1	Transport Block Transmission	F	3.3.0	3.4.0
R2-000516	25.302	044		Clarification to layer 1 model regarding	D	3.3.0	3.4.0
R2-000569	25.302	045		Removal of SCH and SCCH	F	3.3.0	3.4.0
R2-000593	25.302	046		Replacement of Time of Arrival	D	3.3.0	3.4.0
R2-000655	25.302	047	1	Incorporation of Measurement filtering	F	3.3.0	3.4.0
R2-000644	25.302	048		Separation of physical channel BER	C	3.3.0	3.4.0

4 25.303

4.1 Status of the document

Document is stable and complete.

4.2 Change Requests presented for approval

The following CRs are in RP-000036:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000565	25.303	022	4	CPCH start of message indication	B	3.2.0	3.3.0
R2-000151	25.303	023		Correction to Transport Format	F	3.2.0	3.3.0
R2-000564	25.303	025	1	CPCH Emergency Stop sequence	B	3.2.0	3.3.0
R2-000527	25.303	026	1	Variable Rate Packet Transmission for	D	3.2.0	3.3.0
R2-000432	25.303	027		Random access transmission sequence	C	3.2.0	3.3.0

5 25.304

5.1 Status of the document

Document is stable and almost complete. Some more work is expected on the following:
- Mapping of GSM RSSI into a harmonized re-selection metrics
- Link failure on common channels

Note that SoLSA has been removed from release 99 as decided at the last SA plenary.

5.2 Change Requests presented for approval

The following CRs are in RP-000037:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000191	25.304	007	2	Cell Selection for DS-41 mode	B	3.1.0	3.2.0
R2-000118	25.304	014		Modified description of cell search	D	3.1.0	3.2.0
R2-000538	25.304	018	1	UE individual DRX cycles in CELL_PCH	F	3.1.0	3.2.0
R2-000546	25.304	019	1	Cell re-selection criteria including HCS	B	3.1.0	3.2.0
R2-000488	25.304	021		Modified description of DRX	F	3.1.0	3.2.0

6 25.305

6.1 Status of the document

The document is now complete for release 99 and stable.

More work will take place in release 00 when the network interfaces are completed for LCS.

6.2 Change Requests presented for approval

The following CRs are in RP-000038:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000535	25.305	001	3	Network assisted GPS LCS	C	3.0.0	3.1.0
R2-000175	25.305	002	1	Enhancements for cell coverage based	C	3.0.0	3.1.0
R2-000133	25.305	003		Replacement for Figure 4.1	D	3.0.0	3.1.0
R2-000402	25.305	004	1	Restructuring	D	3.0.0	3.1.0
R2-000171	25.305	006		Target UE-RNC signalling model	C	3.0.0	3.1.0
R2-000172	25.305	007		LMU description	D	3.0.0	3.1.0
R2-000553	25.305	008	2	LMU signalling description	C	3.0.0	3.1.0
R2-000210	25.305	009		Incorporation of R1 Liaisons R2-000022	C	3.0.0	3.1.0
R2-000536	25.305	010	3	OTDOA - GPS Location Procedures	C	3.0.0	3.1.0
R2-000530	25.305	011	1	Clarification of the different LMU types	C	3.0.0	3.1.0

7 25.321

7.1 Status of the document

Document is stable and complete.

7.2 Change Requests presented for approval

The following CRs are in RP-000039:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000057	25.321	032		Bit Aligned TDD MAC Headers	C	3.2.0	3.3.0
R2-000566	25.321	035	2	CPCH including Channel Assignment	C	3.2.0	3.3.0
R2-000433	25.321	036		UI-ID type indication	C	3.2.0	3.3.0
R2-000529	25.321	037	1	RACH transmission control procedure	C	3.2.0	3.3.0
R2-000525	25.321	039		CPCH start of message indication	B	3.2.0	3.3.0
R2-000570	25.321	040		Removal of SCH and SCCH	F	3.2.0	3.3.0
R2-000671	25.321	041	1	Clarification of bit order	F	3.2.0	3.3.0

8   25.322

8.1 Status of the document

Document is stable and complete.

8.2 Change Requests presented for approval

The following CRs are in RP-000040:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000234	25.322	018	1	RLC editorial changes	D	3.1.2	3.2.0
R2-000209	25.322	021	1	Corrections to RLC	F	3.1.2	3.2.0
R2-000635	25.322	025	2	Corrections to RLC	F	3.1.2	3.2.0
R2-000557	25.322	026	1	STATUS PDUs	F	3.1.2	3.2.0
R2-000652	25.322	027	1	Clarification of RLC AMD Model	F	3.1.2	3.2.0
R2-000371	25.322	028		Corrections to Timer_discard procedures	F	3.1.2	3.2.0
R2-000556	25.322	029	1	Segmentation of RLC SDUs	D	3.1.2	3.2.0
R2-000634	25.322	030	2	Modification of SDU discard to support	C	3.1.2	3.2.0
R2-000571	25.322	031		Removal of SCCH	F	3.1.2	3.2.0
R2-000440	25.322	032		Updated RLC SDL	F	3.1.2	3.2.0
R2-000597	25.322	033	1	RLC Editorial Changes	F	3.1.2	3.2.0
R2-000645	25.322	034		Order of bit transmission for RLC PDUs	F	3.1.2	3.2.0

9   25.323

9.1 Status of the document

Document is stable and complete.

9.2 Change Requests presented for approval

The following CRs are in RP-000041:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000620	25.323	004		Bit order of PDCP PDUs	F	3.0.0	3.1.0
R2-000636	25.323	005		Changes to PDCP	F	3.0.0	3.1.0

10 25.324

10.1 Status of the document

Document is stable and complete.

10.2 Change Requests presented for approval

The following CRs are in RP-000042:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000077	25.324	001		Miscellaneous corrections	F	3.0.0	3.1.0
R2-000628	25.324	002	2	Correction of messages and bit ordering	F	3.0.0	3.1.0

11 25.331

11.1 Status of the document

The document is close to a complete description of the RRC protocol, and the technical contents of it are considered stable.

Work is expected to now concentrate on completion/correction activities in the coming months, which will probably trigger many CRs for the June meeting. Nevertheless, the biggest work is now behind us.

Two CRs deserve some explanation, because they in fact supersede all the other CRs on 25.331 presented in the meeting. It appeared that there was a need for an editorial restructuring of the tables which were already becoming unmanageable because of numerous duplications. It also appeared that incorporating an ASN.1 description based on the December release would not be wise given the fact that more than 80 CRs have been made on 25.331 since then. Therefore, the choice was made to produce in parallel to the 80 CRs a unique CR capturing all the updates on the message description (tables) in 25.331, and to use it as a basis for a clean and up-to-date ASN.1 description encompassing all CRs presented in RAN for approval. The two CRs are the following:

R2-000632	25.331	272		Update of tabular format Section 10	D	3.1.0	3.2.0
R2-000633	25.331	273		ASN.1 description	F	3.1.0	3.2.0

CR 272 is the editorial CR which is merge of all the section 10 contained in all the other CRs.

CR 273 is the inclusion for the first time of an ASN.1 description of the RRC messages, based on CR 273.

11.2 Change Requests presented for approval

The following CRs are in RP-000043:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000058	25.331	122		TDD Mode BCH Reception in Cell DCH	C	3.1.0	3.2.0
R2-000059	25.331	123		Uplink Outer Loop Power Control in TDD	F	3.1.0	3.2.0
R2-000249	25.331	124	1	TFS TB Size Calculation with Bit Aligned	C	3.1.0	3.2.0
R2-000062	25.331	125		Grouping of DRAC IEs, and detailed	F	3.1.0	3.2.0
R2-000063	25.331	126		Correction of specifications for the	F	3.1.0	3.2.0
R2-000291	25.331	131	2	Clarification of PDCP info and PDCP	F	3.1.0	3.2.0
R2-000076	25.331	132		Editorial change to "Specification of	F	3.1.0	3.2.0
R2-000078	25.331	133		Additions of CBS related Information	F	3.1.0	3.2.0
R2-000082	25.331	134		Signalling for computed gain factors	F	3.1.0	3.2.0
R2-000379	25.331	137	1	General error handling procedures	C	3.1.0	3.2.0
R2-000396	25.331	138	1	RRC message extensions	C	3.1.0	3.2.0
R2-000089	25.331	139		Padding of RRC messages using RLC	C	3.1.0	3.2.0
R2-000598	25.331	140	2	UE information elements	C	3.1.0	3.2.0
R2-000091	25.331	141		Other information elements	C	3.1.0	3.2.0
R2-000631	25.331	142	3	Integrity protection function	F	3.1.0	3.2.0
R2-000638	25.331	143	4	RAB-RB relations	F	3.1.0	3.2.0
R2-000224	25.331	144	1	Inter-system handover from UTRAN	C	3.1.0	3.2.0
R2-000659	25.331	145	3	Handover to UTRAN including procedure	C	3.1.0	3.2.0
R2-000622	25.331	146	2	RRC measurement filtering parameters	C	3.1.0	3.2.0
R2-000097	25.331	147		New event "RL out of UE Rx window"	C	3.1.0	3.2.0

Following table is RP-000044

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000098	25.331	148	1	Access control on RACH	C	3.1.0	3.2.0
R2-000258	25.331	149	2	cdma2000 Hard Handover	F	3.1.0	3.2.0
R2-000272	25.331	150	1	CPCH parameters with corrections	F	3.1.0	3.2.0
R2-000110	25.331	152		U-plane AM RLC reconfiguration by cell	F	3.1.0	3.2.0
R2-000654	25.331	154	3	CPCH	B	3.1.0	3.2.0
R2-000220	25.331	155	1	Information elements for ASC in TDD	C	3.1.0	3.2.0
R2-000120	25.331	156		Addition of timing advance value in	F	3.1.0	3.2.0
R2-000221	25.331	157	2	Physical channel description for TDD	C	3.1.0	3.2.0
R2-000123	25.331	159		Message contents for the intersystem	C	3.1.0	3.2.0
R2-000124	25.331	160		Corrections on use of PUSCH power	F	3.1.0	3.2.0
R2-000601	25.331	162	2	UE individual DRX cycles in CELL_PCH	F	3.1.0	3.2.0
R2-000152	25.331	163		Correction to Transport Format	F	3.1.0	3.2.0
R2-000587	25.331	164	3	Downlink outer loop power control	C	3.1.0	3.2.0
R2-000406	25.331	165	2	Redirection of RRC connection setup	B	3.1.0	3.2.0
R2-000603	25.331	166	2	Inter-frequency measurements in	B	3.1.0	3.2.0
R2-000192	25.331	167		List of found editorial mistakes in the	D	3.1.0	3.2.0
R2-000245	25.331	168	1	Transport block size	C	3.1.0	3.2.0
R2-000232	25.331	169	1	Cell Access Restriction	C	3.1.0	3.2.0
R2-000197	25.331	170		Editorial modification	D	3.1.0	3.2.0
R2-000198	25.331	171		Modification of DPCH info	D	3.1.0	3.2.0

Following table is RP-000045

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000259	25.331	172	1	Measurement control message	C	3.1.0	3.2.0
R2-000490	25.331	173	2	Reporting cell status	C	3.1.0	3.2.0
R2-000201	25.331	174		Additional IE for RB release	C	3.1.0	3.2.0
R2-000202	25.331	175		Available SF in PRACH info	C	3.1.0	3.2.0
R2-000203	25.331	176		Traffic volume measurement event	C	3.1.0	3.2.0
R2-000204	25.331	177		Report of multiple cells on an event	C	3.1.0	3.2.0
R2-000205	25.331	178		Editorial modification on Direct Transfer	C	3.1.0	3.2.0
R2-000206	25.331	179		Correction of the Security Mode Control	F	3.1.0	3.2.0
R2-000286	25.331	180	1	Maximum calculated Transport Format	F	3.1.0	3.2.0
R2-000233	25.331	183		Additional DPCH IEs to align 25.331 with	F	3.1.0	3.2.0
R2-000287	25.331	184	1	RB – DCH mapping	F	3.1.0	3.2.0
R2-000624	25.331	188	1	Modifications related to FDD mode	C	3.1.0	3.2.0
R2-000547	25.331	189	1	Identification of Shared Channel Physical	C	3.1.0	3.2.0
R2-000549	25.331	192	1	Uplink Outer Loop Power Control During	C	3.1.0	3.2.0
R2-000357	25.331	193		Support of Multiple CCTrCH's in TDD	C	3.1.0	3.2.0
R2-000592	25.331	194	1	Uplink Physical Channel Control in TDD	C	3.1.0	3.2.0
R2-000630	25.331	201	1	Transfer of initial information from UE to	D	3.1.0	3.2.0
R2-000675	25.331	202	1	CN information elements	F	3.1.0	3.2.0
R2-000387	25.331	203		UTRAN mobility information elements	F	3.1.0	3.2.0
R2-000625	25.331	204	1	RB information elements	F	3.1.0	3.2.0

Following table is RP-000046

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000605	25.331	205	1	Physical channel information elements	F	3.1.0	3.2.0
R2-000626	25.331	206	1	UE capability information elements	F	3.1.0	3.2.0
R2-000391	25.331	207		UE variables	D	3.1.0	3.2.0
R2-000606	25.331	208	1	Actions when entering idle mode	D	3.1.0	3.2.0
R2-000393	25.331	209		Usage of pilot bits	F	3.1.0	3.2.0
R2-000394	25.331	210		System information procedure	F	3.1.0	3.2.0
R2-000497	25.331	212		Reconfiguration of ciphering	F	3.1.0	3.2.0
R2-000660	25.331	213	1	Enhancements to RRC connection re-	B	3.1.0	3.2.0
R2-000409	25.331	215		Updates to RRC Initialization Information	D	3.1.0	3.2.0
R2-000672	25.331	220	1	Changes in RRC messages to support	C	3.1.0	3.2.0
R2-000674	25.331	229	1	Measurements of unlisted neighbouring	B	3.1.0	3.2.0
R2-000651	25.331	234	2	Inclusion of Location Services	C	3.1.0	3.2.0
R2-000673	25.331	236	1	Application of Access Service Classes	C	3.1.0	3.2.0
R2-000602	25.331	252	1	DRX indicator presence and state	F	3.1.0	3.2.0
R2-000600	25.331	254	1	Physical shared channel allocation	F	3.1.0	3.2.0
R2-000468	25.331	255		Corrections to TDD specific parameters	F	3.1.0	3.2.0
R2-000469	25.331	256		Editorial modifications	D	3.1.0	3.2.0
R2-000658	25.331	259	2	Introduction of mapping function	B	3.1.0	3.2.0
R2-000498	25.331	263		Ciphering and integrity HFN	F	3.1.0	3.2.0
R2-000554	25.331	267		New SIB for LCS	C	3.1.0	3.2.0

Following table is RP-000047

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000572	25.331	268		Removal of synchronisation Case 3	F	3.1.0	3.2.0
R2-000629	25.331	271		TX Diversity	C	3.1.0	3.2.0
R2-000632	25.331	272		Update of tabular format Section 10	D	3.1.0	3.2.0
R2-000633	25.331	273		ASN.1 description	F	3.1.0	3.2.0

12 25.921

12.1 Status of the document

Document is stable and complete.

12.2 Change Requests presented for approval

The following CRs are in RP-000048:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000254	25.921	001	2	Further clarifications on specialised	D	3.0.0	3.1.0
R2-000520	25.921	003	1	Modification of the 'presence' column	D	3.0.0	3.1.0
R2-000544	25.921	005		Editorial corrections on section 11.2	D	3.0.0	3.1.0
R2-000619	25.921	006		Improvement of integers and	D	3.0.0	3.1.0

13 25.922

13.1 Status of the document

Document is stable and complete.

13.2 Change Requests presented for approval

The following CRs are in RP-000049:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000348	25.922	001		PDSCH code usage and signalling	F	3.0.0	3.1.0

14 25.924

14.1 Status of the document

The document is the same as the last meeting. Subject is ODMA and is not applicable to release 99.

15 25.925

15.1 Status of the document

Document is stable and complete.

15.2 Change Requests presented for approval

The following CRs are in RP-000050:

Doc-1st-	Spec	CR	Rev	Subject	Cat	Version	Versio
R2-000079	25.925	001		Miscellaneous corrections	F	3.0.0	3.1.0
R2-000511	25.925	002		Correction of RNC functions	F	3.0.0	3.1.0

16 25.926

The document is complete regarding the most important item that was necessary:
- Capturing all the UE capabilities for which several possibilities exist, and which therefore characterize a particular UE
- Define for these a set of reference combinations for these UE capability parameters. These combinations will be used for tests.
- Define for each reference UE capability a set of reference RABs that will be used for tests

The capture of UE mandatory features is not in the document. It was given lower priority and can be considered as editorial work which will be based on collecting all the material from the other relevant Technical Specifications. It will be added at the next meeting. Assistance from other Working Groups is welcome.

In short, thanks to hard work, this important document that was started only in October 99 is now presented for approval. Cover sheet is RP-000051. Document is RP-000052.

17 Release 99 submission forms

None needed, since all items for finalization in March were completed.

18 Release 00 Work Item descriptions

None provided in RAN WG2.

A document introducing a time-plan for the low chip rate TDD option was discussed and no problem was identified.

19 Concluding remarks

RAN WG2 has again achieved considerable work over the last year, and all companies and delegates must be acknowledged for their hard work and fruitful collaboration. The stability of the architecture documents in RAN WG2 is a good sign that the foundations for the standard are good.

Now, an important debugging phase lies ahead of us for at least the next few meetings. The most important task ahead is to pursue the efforts on the RRC protocol specifications in order to have it both complete and unambiguous.

Also, assistance to the TSG-T1 group will probably be necessary in order to ensure that a complete standard is followed by a complete and consistent test specification.

The Chairman then kindly reminds companies that work is not yet finished, and that the delegates having contributed in reaching this very important milestone should remain active and members of the group at least until a sufficient level of completeness and stability is reached.

20 RAN WG2 meetings in year 2000

Year	Meeting	Dates	Location	Country	Host
2000	WG2 #12	10 - 13 April	Seoul	Korea	Samsung
	WG2 #13	22 - 26 May	tbd	USA	T1P1
	WG2 #14	03 - 07 July	Paris	France	Nortel, …
	WG2 #15	21 - 25 August	Sophia Antipolis	France	ETSI
	WG2 #16	09 - 13 October	Beijing	China	Ericsson, CWTS
	WG2 #17	13 - 17 November	Sophia Antipolis	France	ETSI