UMTS 30.531 WG3 Work Plan and Study Items

Technical Report
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3rd Generation Partnership Project (3GPP);
Technical Specification Group (TSG) RAN

UMTS 30.531 WG3 Work Plan and Study Items

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Contents

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Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project, Technical Specification Group RAN WG3.

The contents of this TR may be subject to continuing work within the 3GPP and may change following formal TSG approval. Should the TSG modify the contents of this TR, it will be re-released with an identifying change of release date and an increase in version number as follows:

Version m.t.e

where:

    m indicates [major version number]

    x the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

    y the third digit is incremented when editorial only changes have been incorporated into the specification.

Scope

This document presents the workplan for TSG RAN WG3. It describes the work procedures of WG3, and the necessary milestones in order to reach the goal of completing the specifications by the end of 1999. The document also contains a list of all specifications to be produced by WG3, and a list of study items identified by WG3.

References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies.

- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

[1]

[2]

Definitions, symbols and abbreviations

Definitions

For the purposes of the present document, the [following] terms and definitions [given in ... and the following] apply.

<defined term>: <definition>.

example: text used to clarify abstract rules by applying them literally.

Symbols

For the purposes of the present document, the following symbols apply:

<symbol>   <Explanation>

Abbreviations

<ACRONYM>   <Explanation>

General

Document version numbering

The specifications in the work plan are numbered according to a three digit numbering system. The first digit is increased when a new version is approved by RAN TSG. The second digit is increase when a new version is approved by WG3. The last digit is raised after every new version released by the editor.E.g. version 0.0.1 is the first version of the specification created by the editor. Version 0.1.0 is the first version approved by the WG and 1.0.0 is the first version approved by RAN TSG.

Meeting intensity

The meeting intensity of WG3 must fulfil at least two requirements:

- often enough to be able to produce the necessary specifications by the end of 1999,

- seldom enough to enable ad-hoc groups and/or subworking groups to work between the meetings.

To fulfil the above requirements the meeting intensity of WG3 will be roughly once every 6th week with a meeting duration of a complete week.

Work procedures

TSG RAN WG3 has the overall responsibility of the specifications listed in ch. 6. In order to have the specifications ready by the end of 1999 WG3 will have the following split between the WG3 plenary meeting and the sub-working groups.

Plenary meeting

1. In the plenary meeting discussions and contributions in order to produce the following overall specifications (see list of specifications in ch. 6) should be treated:

- 25.401: UTRAN Overall Description

- All General Aspects and Interface Principles specifications, i.e. 25.410, 25.420, 25.430

- L1specifications referring to existing standards, i.e. 25.411, 25.421, 25.431

- The technical reports 25.831, 25.832, 25.931, 30.531 and I3.05

2. The work that is performed in the different sub-working groups will be co-ordinated in the plenary meeting. Decisions taken in the sub-working groups should be formally approved by the WG3 Plenary.

3. It is the forum where each specification will be approved.

Sub-working groups (SWG)

TSG RAN WG3 contains two SWGs:

Iu SWG:

The Iu SWG is responsible for drafting of the Iu specifications 25.413 and 25.415. It is also responsible for treating possible changes to 25.412 and 25.414.

Iur&Iub SWG.

The Iub/Iur SWG is responsible for drafting of the Iur specifications 25.423, 25.425, 25.426, 25.427, the Iub specifications 25.433 and 25.435, and 25.442: UTRAN Implementation Specific O&M Transport. It is also responsible for treating possible changes to 25.422, 25.424, 25.432 and 25.434.

TSG RAN WG3 can decide the creation of SWGs.

WG3 may create new or terminate existing SWGs and a rapporteur is appointed by WG3. The rapporteur is responsible for the reporting of the progress in the ad-hoc group to WG3.

A SWG has a clearly identified scope, with the identification of the expected results (e.g. draft specification, Change Request on a specification, Technical Report, or more simply an input paper).

The duration and handling of a SWG depends on the importance of the task to be carried out. A SWG may last e.g.

- only a few days, and be carried in evening or parallel sessions of WG3 (WG3 could for example stop one afternoon).

- only between two WG3 meetings, and be conducted either via e-mail or in ad-hoc meetings.

- several months in which case reporting will be made at each occurring WG3.

- until its task is completed.

The meetings and organisation of the SWG will have to be organised in a co-ordinated manner, with enough pre-meeting notice. This is managed by the SWG rapporteur. The SWG rapporteur also acts as chairman for SWG sessions.

In order to facilitate SWG work, and also a quick resolving of the key problems, it is encouraged that SWGs should focus on issues where the involved people is less than the WG3 meeting. Otherwise, the issue can be handled directly in WG3.

The SWGs provide full reports to the WG3 Plenary.

Decisions of SWGs have to be formally approved by the WG3 Plenary.

Meeting arrangements

WG3 meetings are one week long. The number of parallel sessions should be optimised to minimum that is needed for efficient progress. Also parallel sessions for groups that need very similar expertise should be avoided. Table 1is an example of a meeting structure designed according to this principle:

Table 1: Example of WG3 meeting structure.

Monday	Tuesday		Wednesday		Thursday	Friday
Opening Plenary	Iu	Iur&Iub	Iu	Iur&Iub	Plenary	Closing Plenary

The group has allocated three days (Monday, Thursday and Friday) for plenary sessions, and two days (Tuesday and Wednesday) for parallel SWG sessions.

It must be possible to allocate time for the opening and closing plenaries in a flexible manner.

Draft agenda for the next meeting should be agreed upon in the closing plenary.

Contents and Prioritisation in Release 99

Contents of Release 99

As a starting point, all functions defined in Uu for Release 99 should be considered as part of Release 99 of Iub, Iur and Iu.

Prioritisation principle

Regarding prioritisation the following applies:

- R3 should prioritise to complete all TSs with good quality by RAN#6 for the basic functions / features. Good quality means clear and unambigous specification text and complete specification of normal and error cases. Also good compatibility and extension mechanisms must be finalised.

- R3 should finalize the below functions / features for inclusion into TSs by RAN#7

- TRs are treated with lower priority except when needed internally in R3 to progress a TS

This should ensure to firstly have complete specifications allowing interoperability ("open interfaces") during 1999, and secondly to include the additional features and functions into Release 99 at RAN#7.

Features/functions for RAN#7

Features/functions proposed by R3

[Editor's note: This chapter should contain a list of features/functions proposed by R3 to be considered for RAN#7.]

The following list of features and functions is proposed by R3 to be considered for RAN#7.

- *Separation of resource allocation and activation at RL Addition.*

- *Available capacity estimate in a drift cell*

- *DPC Rate Reduction in Soft Handover*

- *Concept of access tag in NBAP*

Features/functions agreed by TSG-RAN

The following (unordered list of) features and functions should be considered for completion to RAN#7, i.e. to be included in Release 99 but not focused on before RAN#6. Note that the other open issues reported in R3 Status Report (RP-99458) are to be solved until RAN#6.

- Cell broadcast protocols between SMS-CBC and RNC

- Support for specific positioning methods (OTDOA, GPS-assisted) on Iur and Iub

- FACH power control on Iur

- DSCH over Iur

- USCH on Iur

- SoLSA on Iu

- Load information on Iur (pure optimisation)

- CPCH

- Iu time alignment

Any new functions / features for Release 99 not already included in the Iu / Iur / Iub specifications should be also considerd for RAN#7 rather than RAN#6.

In addition, complex performance optimisations may be considered as lower priority for RAN#6.

The NBAP common procedures ("logical O&M") should be complete for basic interoperation with subject of minimising operator testing. It is however recognised that in order to have Iub stable in Release 99, there may be a need to limit the extent of features. Additional features will be progressed in future releases.

Contents and Prioritisation in Release 00

Features/functions proposed by R3

[Editor's note: This chapter should contain a list of features/functions proposed by R3 to be considered for R00.]

Features/functions agreed by TSG-RAN

[Editor's note: This chapter should contain a list of features/functions agreed by TSG-RAN for R00.]

Milestones

The work plan with milestones is shown in **Error! Reference source not found.**.

Parallel work shall be possible, e.g. specification of RANAP procedures and IE coding may run concurrently.

Table 2: Work plan with milestones

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
25.401 Spec.	UTRAN Overall Description	Jean-Marie Calmel (Nortel)	Sept				v.3.0.0. Open issues: • List of functions may still need some update and review • Performance requirements • Support for positioning • Support for Cell Broadcast service
25.402 Spec.	Synchronisation in UTRAN, Stage 2	Flavio Piolini (Italtel)	Dec				v.2.0.0
25.410 Spec.	UTRAN Iu Interface General Aspects and Principles	Richard Townend (BT)	Sept				v.3.0.0.

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
25.411 Spec.	UTRAN Iu Interface Layer 1	Achim Brandt (Siemens)	April				v.3.0.0.
25.412 Spec.	UTRAN Iu Interface Signalling Transport	Kiran Thakare (Telecom Modus)	April				v.3.1.0.
25.413 Spec.	UTRAN Iu Interface RANAP Signalling	Jyrki Jussila (Nokia)	Dec				v.2.1.0
					RANAP procedures (text and/or SDL)		(August) No new features / functions after August meeting.
					List of messages		(August)
					Message functional contents frozen		(August)
					Ready for approval except IE coding		(Sept)
					Message descriptions in ASN.1 ready		(Oct) Note: Can be started earlier based on stability if the procedure is considered stable.
					Ready for review by companies		(End of October meeting)

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
					IE coding		(Dec)
25.414 Spec.	UTRAN Iu Interface Data Transport & Transport Signalling	David Comstock (Ericsson)	April				v.3.1.0.
25.415 Spec.	UTRAN Iu Interface CN-RAN User Plane Protocols	Alain Maupin (Ericsson)	Sept				v.3.0.0. Open issues: • Handling of Abnormal Event and Error Handling • Timing over Iu, including Time Alignment
					Procedure descriptions finalised		
					List of messages		
					Message contents		
					IE coding		
25.420 Spec.	UTRAN Iur Interface General Aspects and Principles	Kiran Thakare (Telecom Modus)	Sept				v.2.0.0
25.421 Spec.	UTRAN Iur Interface Layer 1	Achim Brandt (Siemens)	April				v.3.0.0.

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
25.422 Spec.	UTRAN Iur Interface Signalling Transport	Kiran Thakare (Telecom Modus)	April				v.3.1.0.
25.423 Spec.	UTRAN Iur Interface RNSAP Signalling	Göran Rune (Ericsson)	Dec				v.2.0.0
					RNSAP procedures (text and/or SDL)		(August) No new features / functions after August meeting.
					List of messages		(July)
					Message functional contents frozen		(August)
					Ready for approval except IE coding		(Sept)
					Message descriptions in ASN.1 ready		(Oct) Note: Can be started earlier based on stability if the procedure is considered stable.
					Ready for review by companies		(End of October meeting)
					IE coding		(Dec)

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
25.424 Spec.	UTRAN Iur Interface Data Transport and Transport Signalling for Common Transport Channel Data Streams	Nicolas Drevon (Alcatel)	April				v.3.1.0.
25.425 Spec.	UTRAN Iur Interface User Plane Protocols for Common Channel Data Streams	Nicolas Drevon (Alcatel)	Sept				v.2.0.0
					Procedure descriptions finalised		(August)
					List of messages		(August)
					Message contents		(August)
					IE coding		(Sept)
25.426 Spec.	UTRAN Iur & Iub Interface Data Transport and Transport Signalling for Dedicated Transport Channel Data Streams	Sami Kekki (Nokia)	April				v.3.1.0

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
25.427 Spec.	UTRAN Iur & Iub Interface User Plane Protocol for Dedicated Transport Channel Data Streams	Fabio Longoni (Nokia)	Sept				v.3.0.0. Open issues: • Version handling and backward compatibility. • Interaction between incorrect UL TFCI decoding and UL silent mode, and need of the UL normal mode.
					Procedure descriptions finalised		
					List of messages		
					Message contents		
					IE coding		
25.430 Spec.	UTRAN Iub Interface General Aspects and Principles	Mick Wilson (Fujitsu)	Sept				v.2.2.0
25.431 Spec.	UTRAN Iub Interface Layer 1	Achim Brandt (Siemens)	April				v.3.0.0.
25.432 Spec.	UTRAN Iub Interface Signalling Transport	Mick Wilson (Fujitsu)	April				v.3.1.0.
25.433 Spec.	UTRAN Iub Interface NBAP Signalling	Nobutaka Ishikawa (NTT DoCoMo)	Dec				v.2.0.0

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
					NBAP procedures (text and/or SDL)		(August) No new features / functions after August meeting.
					List of messages		(July)
					Message functional contents frozen		(August)
					Ready for approval except IE coding		(Sept)
					Message descriptions in ASN.1 ready		(Oct) Note: Can be started earlier based on stability if the procedure is considered stable.
					Ready for review by companies		(End of October meeting)
					IE coding		(Dec)
25.434 Spec.	UTRAN Iub Interface Data Transport and Transport Signalling for Common Transport Channel Data Streams	Magnus Aldén (Telia)	April				v.3.1.0.

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
25.435 Spec.	UTRAN Iub Interface RNC-NodeB User Plane Protocols for Common Transport Channel Data Streams	Jean-Marie Calmel (Nortel)	Sept				v.3.0.0. Open issues: • Backward compatibility and definition of the compatibility information • Support for CPCH
					Procedure descriptions finalised		
					List of messages		
					Message contents		
					IE coding		
25.442	UTRAN Implementation Specific O&M Transport	Stephan Recker (Mannesmann)					v.3.0.0.
25.931 Report	RAN Functions: Examples on Signalling Procedures	Enrico Scarrone (CSELT)					v.1.2.1
25.832 Report	Manifestations of Handover and SRNS Relocation	Richard Townend (BT)					v.3.0.0.

Identity and type	Title	Rapporteur	Date for approval	Dependency	Features under study (Sections)	Editor	Current status (Date to become stable)
30.531 Report	TSG RAN WG3 Work Plan and Study Items	Björn Ehrstedt (Ericsson)					v.0.4.0
25.831 Report	TSG RAN WG3 Study Items for Future Releases	Nicolas Drevon (Alcatel)					v.0.0.2
I3.05 Report	NodeB O&M Functional Descriptions	Andrew De La Torre (Vodafone)					v.0.2.1 June

Note 1 – Major milestone for each TS/TR shall be indicated by having additional rows to show features under study together with the date when such additional features become stable.

Note 2 – Editor(s) may be assigned in addition to Rapporteurs in case, for example, the volume of the TS/TR is large.

Study items

Study items from the merging process, WG3 Meeting #1

Table 3: Study Items from the WG3 merging process.

#	Title	Responsible person	Contact from Partner	Status
Iu/7	Usage of abstract syntax (ASN.1 with CSN.1 as encoding rules, as recommended by SMG2) versus explicitly coding the transfer syntax (bit matrix, as proposed by TTC/ARIB).	Atte Länsisalmi, Nokia	Cheng Hock, NEC	Open; agreed to use ASN.1 with either BER or PER.

Study items (not related to the merging process)

Table 4: study items created at ordinary WG3 meetings (i.e. not related to the merging process at WG3 meeting #1)

#	Title	Responsible person/company	Status
ARC/3	Overall delay budget in UTRAN	Siemens/Italtel	open
ARC/9	SRNS Relocation	Nicolas Drevon, Alcatel	open
ARC/15	RNSAP TDD parameters	Flavio Piolini, Italtel	open
ARC/22	Iub/Iur u-plane protocol version handling and compatibility mechanisms	Göran Rune, Ericsson	open
ARC/23	Iu Time Alignment	NTT DoCoMo	open

History

Document history		
Edition x	<MMMM yyyy>	Publication as <old doctype> <old docnumber>
0.5.0	December 1999	TS versions for specifications sent to TSG RAN#6 for approval updated to reflect the version agreed at R3#9. Otherwise the same as v.0.4.1.

0.4.1	November 1999	• Ch. 6.3 'Features/functions for RAN#7 split into two subchapters 6.3.1 'Features/functions proposed by R3' and 6.3.2 'Features/functions agreed by TSG-RAN'. • New ch. 7 'Contents and Prioritisation in Release 00' created. • Features/functions deferred to RAN#7 at R3#8 (Abiko) listed in ch. 6.3.1 (ref. Iub/Iur SWG report g09) • Ch. 8 'Milestones': TS versions stepped. • Ch. 9 'Study items' updated (old Iu SWG study items closed. SI: Iu Time Alignment added).
0.4.0	November 1999	V.0.3.2 approved by R3#8 (Abiko). 25.402 version corrected to v.0.0.1.
0.3.2	Octobert 1999	V.0.3.1 submitted to RAN #5. V.0.3.2 reflects decisions at RAN #5. TS versions updated; list of open issues in TSs added in ch. 6 (Milestones); new TS 25.402 'Synchronisation in UTRAN, stage 2' added; new ch. 6 'Contents and Prioritisation in Release 99'.
0.3.1	September 1999	Spec. versions updated in ch. 6. SI-list updated.
0.3.0	August 1999	Study items from WG3#6 in Sophia Antipolis added. Version stepped.
0.2.1	July 1999	Ch. 6: milestones for xxxAP and user plane specifications updated according to agreements in Helsinki. Ch. 7.1: SI-ARC/1 closed; ch. 7.2: New study items added.
0.2.0	July 1999	Updated according to comments at WG3#5 in Helsinki.
0.1.2	June 1999	Updated according to comments at WG3#4 in Warwick.
0.1.1	May 1999	Updated according to comments at WG3#3 in Kawasaki.
0.1.0	April 1999	Version stepped, otherwise same as 0.0.3.
0.0.3	April 1999	Table of work plan with milestones updated according to TSG#2 RP(99)157 as agreed at TSG RAN #2 in Florida.
0.0.2	Mar 1999	Updated according to comments and changes made at WG3#2 in Nynäshamn, Sweden.
0.0.1	Feb 1999	First draft
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