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Technical Report

3rd Generation Partnership Project;
Technical Specification Group Radio Access Network;
Work Plan and Working Procedures - RAN WG3
(Release 12)

Keywords

3GPP

Postal address

3GPP support office address

650 Route des Lucioles - Sophia Antipolis
Valbonne - FRANCE
Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Internet

http://www.3gpp.org

Contents

Foreword

This Technical Report (TR) has been produced by the 3rd Generation Partnership Project (3GPP).

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

Version x.y.z

where:

    x   the first digit:

        1   presented to TSG for information;

        2   presented to TSG for approval;

        3   or greater indicates TSG approved document under change control.

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

    z   the third digit is incremented when editorial only changes have been incorporated in the document.

1 Scope

The present document presents the workplan for TSG RAN WG3. It describes the working procedures of TSG RAN WG3. The document also contains a list of all specifications under responsibility of RAN WG3, and a list of all work and study items relevant for TSG RAN WG3 for the different releases.

2 References

[1]	"Third Generation Partnership Project 3GPP Working Procedures, (2010-04-23)"
[2]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[3]	3GPP TR 21.900: "Technical Specification Group working methods".
[4]	3GPP TR 21.801: "Specification drafting rules".
[5]	Void
[6]	Void
[7]	Void
[8]	3GPP TS 25.410: "UTRAN Iu Interface: general aspects and principles".
[9]	3GPP TS 25.420: "UTRAN Iur interface general aspects and principles".
[10]	3GPP TS 25.430: "UTRAN Iub interface: general aspects and principles".
[11]	3GPP TS 25.450: "UTRAN Iupc interface general aspects and principles".
[12]	3GPP TS 25.461: "UTRAN Iuant interface: Layer 1".

3 Definitions, symbols and abbreviations

In general definitions and abbreviations are defined in TR 21.905 [2]. Additional explanations are given below:

MCC   Mobile Competence Centre (ETSI)
n.a.   Not Available
SWG   Sub-Working Group

4 General

This document is mainly divided in two parts:

- TSG RAN WG3 working procedures in clause 5:

    o   Clause 5.1 summarizes TSG RAN WG3 internal agreements in addition to the working procedures already existing in 3GPP.

    o   Clause 5.2 stores former agreements which are not applied at the moment/any longer.

    o   Clause 5.3 is a summary of guidelines which should be taken into account by TSG RAN WG3 delegates to avoid delays or misunderstandings.

- TSG RAN WG3 work plan in clause 6:

    o   Clause 6.1 summarizes the Technical Specifications and Reports which are under control of TSG RAN WG3 with information for each TS/TR, e.g. rapporteur, version, last used CR no.

    o   Clause 6.2 addresses all Work and Study Items which are relevant for TSG RAN WG3.

5　　TSG RAN WG3 working procedures

The working procedures of TSG RAN WG3 as a working group (WG) of TSG RAN are defined by

- the "3GPP Working Procedures" (3GPP Working Procedures [1]) (the latest version can be found under ftp://ftp.3gpp.org/Information/Working_Procedures/),

- the "Technical Specification Group working methods" of TR 21.900 in [3],

- the "Specification drafting rules" of TR 21.801 in [4] and

- the additional TSG RAN WG3 internal agreements summarized in clause 5.1 and additional guidelines are given in clause 5.3.

Note: Clause 5.2 is storing former agreements which are currently not used.

5.1　　Current TSG RAN WG3 agreed working procedures

1.　　TSG RAN WG3 document archive:
TSG RAN WG3 uses a folder on the 3GPP server ftp://ftp.3gpp.org to store all temporary documents (Tdocs) as well as meeting reports and additional information:
ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/
(Only MCC support has write access.)

2.　　TSG RAN WG3 means of information exchange between meetings:
TSG RAN WG3 uses an email exploder to distribute emails among the working group (email address for subscribed users: 3GPP_TSG_RAN_WG3@LIST.ETSI.ORG).

3.　　TSG RAN WG3 meeting intensity:
The meeting intensity of TSG RAN WG3 must fulfil at least two requirements:
-　　Often enough to be able to produce the necessary specifications on time,
-　　Seldom enough to enable ad hoc groups and/or sub-working groups to work between the meetings.
To fulfil the above requirements the meeting intensity TSG RAN WG3 meetings will be held 6 times a year with a duration of one week (5 days).

4.　　TSG RAN WG3 meeting organisation:
TSG RAN WG3 meetings will not be divided into sub-working groups, however it is up the chairman to decide about having one (in parallel to the plenary) or more ad hoc groups to achieve efficient progress.
The chairman shall take care:
- of informing delegates about planned ad hoc(s) in advance (date, time, duration),
- of the focus of the ad hoc(s) which shall not cover overlapping topics,
- that a rapporteur/chairman for the ad hoc is named,
- that all ad hoc agreements have to be formally agreed by the TSG RAN WG3 group, i.e. the plenary.

5.　　Void

6.　　Isolated impact statements on CRs:
Each CR for a closed Release has to have an 'isolated impact assessment towards the previous version of the same release of the specification'. Details are given in RP-010494 of RAN #12 and R3-013038 of RAN WG3 #24, (see also annex A). Furthermore, backward and "forward" compatibility have to be ensured, see RP-020642 of RAN #17.
: "The Isolated impact shall provide backward compatibility issues. This also implies that forward compatibility is reviewed when CRs are provided for approval on previous Releases."

7.　　ASN.1 check
If after the implementation of approved CRs, a draft specification contains modifications to its ASN.1 code, it is the task of the rapporteur of the specification to check the correctness of the ASN.1 code using an ASN.1 compiler and propose corrections where errors are found. Draft specifications will be made available for the check at:
ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/Draft_Specs/

The availability of draft specifications and the deadlines for the correctness check will be announced via the email reflector.

5.2 Formerly used TSG RAN WG3 working procedures

Void.

5.2.1 Plenary meeting

Void.

5.2.3 Meeting arrangements

Void.

5.3 TSG RAN WG3 working guidelines

This clause provides working guidelines collected by MCC for optimal TSG RAN WG3 working performance.

5.3.1 General aspects

5.3.1.1 Meeting organisation:

1. The latest TSG RAN WG3 **meeting schedule** is published at several places (e.g. this TR, TSG RAN WG3 reports, TSG RAN reports, 3GPP internet page: http://www.3gpp.org/3GPP-Calendar).

2. Companies/organisations which intend to **host a TSG RAN WG3 meeting** should contact the chairman and MCC well in advance (usually hosts for the next year are decided at the end of the previous year).
Note: Usually a co-location of all TSG RAN Working Groups is preferred.

3. Meeting delegates which want to attend a TSG RAN WG3 meeting have to **register** in advance under:
http://www.3gpp.org/Meetings/meetings.htm under 'RAN WG3'.

4. The **agenda** for the following TSG RAN WG3 meeting will be provided by the TSG RAN WG3 chairman on the TSG RAN WG3 reflector at least two weeks before the meeting to allow correct Tdoc/CR number requests.

5. For submission of temporary documents (Tdocs) or change requests (CRs) MCC is providing corresponding **Tdoc and CR numbers**. To be able to allocate these numbers and to provide Tdoc lists TSG RAN WG3 delegates are asked to fill out the corresponding latest template of the Tdoc/CR number request sheet which is available under:
ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/Latest_Templates/
and to send it by email directly to MCC.
Answers to ordinary Tdoc/CR number requests will usually be sent out by MCC starting on Tuesday, 13 days before the start of the meeting and stopping on Friday noon CET, 10 days before the meeting.
Answers to Tdoc number requests for Response documents will be sent out by MCC starting on Wednesday, 5 days before the start of the meeting and stopping on Thursday noon CET, 4 days before the start of the meeting.
Response documents should only be used to give comments in other companies' submissions. It is not allowed to use them to re-submit the company's own contributions (thus circumventing the submission deadline).
Note: For in principle agreed CRs of the previous meeting MCC will provide Tdoc and CR numbers for the next meeting well in advance without Tdoc/CR number requests since it it assumed that the data of the last meeting still applies.
VERY IMPORTANT RULES:
a. Any change of information in this request sheet afterwards (e.g. in the Tdoc title) MUST be reported to MCC (otherwise reports, Tdoc lists, summaries for TSG RAN, databases might be wrong).
b. As soon as a Tdoc/CR with the official number(s) is published (i.e. by sending it to the reflector or by distributing it by CD/floppy in a meeting or by putting it on the document server or by giving it to MCC) it is NOT ALLOWED to reuse this Tdoc/CR number for an update or a different document (documents with reused numbers are treated as they would not exist since there is a fundamental rule that one Tdoc number or one CR number for a specification can only exist once).
c. Allocated Tdoc and CR numbers are only valid for the meeting for which they are allocated. NEVER reuse them for the same or a different document at another meeting.
6. For **Tdoc/CR submission** on the TSG RAN WG3 reflector delegates are asked to respect the following deadlines to allow sufficient time to study the contributions before the meeting:
a. For ordinary Tdocs: Friday, end-of-business, US Pacific Time, 10 days before the meeting.
b. For Response documents: Thursday, end-of-business, US Pacific Time, 4 days before the meeting.

MCC will automatically upload the contributions to the corresponding meeting folder of the 3GPP server.
Note: It is up to the chairman to prioritize treatment of contributions according to their delayed submission.
Updates of documents during the meeting are not affected by these deadlines and direct answers to submitted documents might be treated even if delayed provided delegates get sufficient time to study them before they are treated.

7. **File format/name conventions**:
The file names shall use the syntax: R3-aaxxxx.zip where 'aa' is the year (11 for 2011) and 'xxxx' is the Tdoc number.
Note: Additions to the zip-file names are usually not acceptable (since special characters as e.g. blanks or # and longer file names might cause problems in mirror scripts or archiving tools).
For the submission Tdocs should always be zipped, one zip-file per Tdoc number.

8. **Tdoclists**
A tdoclist is an Excel sheet which contains the basic information of all allocated tdocs for a meeting (tdoc number, document type, CR number, revision number, work item, etc. The first version of a tdoclist is published by the MCC after the tdoc request deadline on Friday, 10 days before the start of the meeting. During the meeting MCC aims to publish an updated tdoclist at least twice a day (provided that there are new tdocs). During the meeting the new tdoclists are not sent to the email reflector, instead they are copied to the meeting server, to the tdoclists folder.

9. **Participants List**
Based on pre-meeting registrations, MCC will provide a participants list, which will circulate in the meeting room during the first meeting day, and afterwards it will be placed on a visible place in the meeting room. Each delegate should confirm his/her presence in the meeting by signing the list. MCC is not allowed to accept changes to the participants list once the meeting is over. Since RAN3 voting rights will be based on this list, it is important that each delegate signs it. Only the participants list that is available in the meeting room has an official status in 3GPP. Other lists which are sometimes circulated by the host organization or the meeting hotel are not controlled by 3GPP and have no official status when it comes to 3GPP procedures. While in the meeting room, delegates should also wear their name tags provided by the host organization.

5.3.1.2   Email discussion

Email discussions are a means to continue discussions on the TSG RAN WG3 reflector (preferred) or in a smaller email group (appropriate for specific topics which are only of interest for a very small group) without a physical meeting.
Email discussions might be announced by the chairman (in this case the topic and the rapporteur has to be named) or they may be started by anybody else (in this case the person who starts it is automatically the rapporteur and she/he has to clarify the topic in the starting email).
For email discussions on the reflector the rapporteur is asked to invent for the kick-off email a unique short keyword which will then appear in brackets at the beginning of the subject field of all emails to this topic.
Furthermore, to the next TSG RAN WG3 meeting the rapporteur has to prepare a Tdoc with a short summary of the email discussion.
Note: In contrast to an email approval the email discussion can NEVER lead to an official RAN WG3 decision!

5.3.1.3   Email approval

Email approval is a means to come to official TSG RAN WG3 decisions without having a physical TSG RAN WG3 meeting.

Only the TSG RAN WG3 chairman can announce an email approval and only the chairman can state the final official TSG RAN WG3 decision.

The chairman has
a. to clearly formulate which *question* has to be decided,
b. to set a *start time* to start the discussion of the question,
c. to set a *stop time* at which the discussion phase is over (all comments have to be made before, comments afterwards might be ignored),
d. to set a *conclusion time* when the chairman will declare the decision,
e. to name a *rapporteur* which has to kick-off and to summarize the discussion after the stop time (but well in advance before the conclusion time) including a proposal how to proceed,
f. to announce the *decision* based on the rapporteur's summary. It is the chairman's task to evaluate the rapporteur's summary and to decide whether late comments (after the stop time) will be taken into account.

Email approvals MUST be carried out on the TSG RAN WG3 reflector so that every delegate knows the question, the rapporteur and the deadlines and that they could follow the discussions and decision process.

Email approvals should be used for exceptional cases only (i.e. if a decision is needed before a specific deadline). Email approvals are not a means to extend a meeting!

For cases where email approvals are carried out regarding the 'agreement of a CR' (Note: TSG RAN WG3 can only agree CRs, the final approval is up to TSG RAN) the conclusion time has to be at least 8 days before the beginning of the TSG RAN meeting so that these CRs can be submitted by MCC.
For cases where the conclusion time is later or it is not possible to have a final agreed CR within three hours after the conclusion time, the CR might be submitted to TSG RAN as a company contribution and the TSG RAN WG3 chairman will clarify the status of the CR during the TSG RAN meeting.

5.3.2 CR preparation

1. The latest **CR cover sheet** must be used. This can be found under: ftp://ftp.3gpp.org/Information/
   (For convenience a directory with the latest RAN WG3 templates was created:
   ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/Latest_Templates/
   which usually includes the latest CR cover sheet.)
   The CR cover sheet has to be filled out completely and the 'other comments' field might be used to give additional clarifications.
   Note: The usage of revision marks is NOT allowed on the CR cover sheet.

2. **WI acronyms/codes and CR categories**:For the WI acronyms/codes please look in the official 3GPP work plan under
   ftp://ftp.3gpp.org/Information/WORK_PLAN/
   or in the TSG RAN summary for work and study items in the latest TR 30.531.
   ftp://ftp.3gpp.org/Specs/archive/30_series/30.531/
   The CR categories are shortly explained on the CR cover sheet. Most of the CRs have category F (correction) or category A (corresponds to a correction in an earlier release). Some guidelines:

   a. Independent of how many different specifications are affected or how many authors are contributing to a set of CRs addressing ONLY ONE topic these CRs will have exactly the same title and WI acronym (e.g. having a Rel-Xcat.F CR with the WI acronym 'TEIX' requires corresponding REL-X+1 cat.A CR with the same WI acronym 'TEIX' and not 'TEIX+1').

   b. Assuming a set of CRs fall under the category 'correction' then for each specification separately the CR for the earliest/oldest Release will have the category F. A category F CR requires that following Releases correct the same problem in all following Releases of the same specification in corresponding category A CRs.

   c. Assuming CRs to a topic require a 'correction' in two specifications which started in different Releases. In this case still the CRs to the earliest Release of EACH specification will be category F. Note that for the case that this correction is a 'Technical Enhancement and Improvement' still the rule applies that all CRs to the same topic have the same WI acronym (therefore e.g. for a cat.F CR to a REL-X specification it is possible to have the WI acronym TEIX-1).

   d. Even for work items (WI) which are already closed, the corresponding former WI acronym shall be used instead of TEIX (Technical Enhancements and Improvements, Rel-X).

   e. The usage of TEIX shall be limited to cases where no other WI acronym/code applies.

3. The latest official **specification version** must be used as a base for the CR. This can be found under:
   ftp://ftp.3gpp.org/Specs/archive/

   Note: Other specification text is only allowed if the specification version of the last TSG does not yet exist (this will never happen for a RAN WG3 meeting directly before a TSG RAN meeting). In the best case such a CR can be in principle agreed by RAN WG3 which means that the reason for change and the principle way how the change is prepared is agreed. It does not mean an automatic agreement at the next RAN WG3 meeting!
   In any case, the final version of such a CR needs to be based on the latest official specification for the RAN WG3 meeting directly before the TSG RAN meeting, so an update is mandatory.

4. **Part of the specification** to be taken in a CR:
   a. Do NOT take a huge number of unmodified specification pages in a CR. (Only for huge review CRs affecting a large number of sections/clauses, it might be sensible to take a bigger part or the whole specification in a CR).

    b. To clearly indicate the position where new text has to be inserted it is mandatory that there is UNmodified specification text BEFORE AND AFTER the text that is inserted in the specification. The same rule applies for modified text. Do not cut any text between the last section heading and the text to be modified

    c. Take into account that sometimes one text paragraph appears several times in a specification with only very minor modifications. So in this case the less text is before and after the added/modified paragraph the higher is the risk that the CR implementation will be faulty.

5. **Revision marks**:
    a. Revision marks MUST be used to indicate all changes of the specification in the CR except b.
    b. It is NOT allowed to use revision marks:
       - on the CR cover sheet,
       - on text that was inserted by the author or other authors of the CR but deleted afterwards,
       - on text which was already in the specification (e.g. text which was in the specification is removed and afterwards inserted again but with revision marks).
    c. Emulation of revision marks (e.g. using underlined coloured text) is NOT allowed.
    d. As a general rule: If a larger number of changes have to be done in one paragraph then it better to remove the whole paragraph and add the new correct paragraph below.
    e. For changes of the format/style of text (e.g. italics, bold) remove the text in the current style and add text afterwards in the correct style (otherwise this kind of change might not be implemented).
    f. For adding new columns in tables or modifying figures: Remove the wrong table/figure and add the correct table/figure afterwards.

6. **Allocation of new numbers**: To avoid numbering conflicts when introducing new numbers for subclauses, figures, tables, references, IE-IDs etc. by different CRs, the author of a CR is not allowed to introduce new numbers himself.
    a. For IE-ID numbers, procedure codes, cause values: These numbers must be requested from the rapporteur of the specification BEFORE the final CR can be agreed by RAN3.
    b. For new subclauses, figures, tables, references the CR author has to point out that new numbers have to be introduced by MCC by highlighting the place holders (e.g. x1) with a colour in the CR.
    c. For a new subclause only the last level has to get a place holder in the CR (e.g. 9.2.1.x1). However, on the CR cover page under 'other comments' a proposal for the number (e.g. x1=27) should be made.
    d. For a new figure the number is left open in the CR (e.g. Figure x2). However, on the CR cover page under 'other comments' a proposal (e.g. x2=29) should be made. Tables (e.g. Table x3) and references (e.g. [x4]) should be handled in a similar way.

7. **'Other specs affected'**: The CR cover page has a cell indicating the other specs affected by this change. Please remember to fill this section when appropriate. Please use CR numbers together with the corresponding TS/TR numbers when referring to other CRs.

8. **'Clauses affected'**: All CR cover sheets must explicitly mention in the "clauses affected" cell each and every subclause down to the Nth degree which has a change. Even if all subclauses in a clause are mentioned, it is not sufficient to mention just the top level clause number.

9. **'Two Work Item codes'**: Exceptionally there is a case when CRs have (or should have) two WI codes in their coverpages. When a CR is proposed for an early release, it (and all its mirror CRs, i.e., category A CRs for later releases) should use a WI for that early release. However, oftentimes CRs for early releases are rejected but their mirror CRs for later releases are agreed. In such a case the agreed CR should, in principle, no longer use the WI code of the original CR if that WI was not available for the later release. There is no written rule for such a case, but the recommended practise is to use two WI codes in the new agreed CR: TEIX (e.g., TEI10) of the release of the agreed CR and the WI code of the original CR.

5.3.3   LS preparation

1. Liaison statements (LS) are the means to exchange documents with TSGs and WGs. For the LS preparation the **template** available under ftp://ftp.3gpp.org/Information/ should be used.
    (For convenience a directory with the latest RAN WG3 templates was created:
       ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/Latest_Templates/
    which usually includes the latest LS template.)
    Note:
       - As some WGs have to prioritize their incoming LSs it is necessary to fill out also the 'Release:' and the 'Work Item:' fields of the LS template (even though the 'OPTIONAL' is still in the template).
       - For the Work Item field, please use the Work Item Acronym (instead of the Work Item name or the Work Item UID).

2. To avoid confusion about whether a Tdoc includes the **draft or final LS** version:
   - All LS proposals shall use as source the name of the company that proposes this change.
   - This applies also for revisions.
   - To indicate that the LS is not yet agreed by TSG RAN WG3 the title shall have 'DRAFT' in its title.
   - All final LSs will be sent out by MCC in a new Tdoc after removing the 'DRAFT' from the title and changing the source from the company name to 'RAN WG3'.

   Note: In the meeting report/Tdoc list the draft LS proposal which is agreed by TSG RAN WG3 will have the status 'agreed'. The final LS provided by MCC has then the status 'approved'.

5.3.4   TS/TR preparation

Rapporteurs of work and study items for which it is decided to have a TR will be responsible as editor for the TR as long as the TR is not under change control, i.e. they have to provide the first skeleton TR as well as regular updates including latest decisions. The same applies for a TS.

1. For the first version v0.0.1 of a TR the **template** available under ftp://ftp.3gpp.org/Information/ should be used.
   (For convenience a directory with the latest RAN WG3 templates was created:
   ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/Latest_Templates/
   which usually includes the latest TR template.) Analogous template is available for a TS.

2. Regarding **TR updates** it is necessary to distinguish between
   a. proposed additions/modifications to the TR:
      - Document type: 'for Approval'.
      - Contents: Covers usually just a part of the TR (i.e. just take the parts of the TR that you want to modify).
      - Source: Might be proposed by the rapporteur as well as by other delegates.
      - Title: Useful to have 'text proposal' or 'proposed modification' in the Tdoc title.
      - Revision marks based on the latest TR version vx.x.0 (*) are necessary if text of the TR is modified by the proposal (for just a text addition where it is clear where the text needs to be added in the TR revision marks are not needed).
      - Conclusion: RAN WG3 either agrees to modify the TR according to the proposal or it rejects/postpones the proposal. To include modifications of the proposal without having a Tdoc describing it should only be applied if there are minor or very clear modifications.
   b. rapporteur's updates of the TR (TR version is vx.x.z with $z \neq 0$):
      - Document type: 'TR'.
      - Contents: Is a complete TR with modifications.
      - Source: Can only be provided by the rapporteur.
      - Title: Useful to have 'rapporteur's update' in the Tdoc title.
      - Revision marks based on the latest TR version vx.x.0 are MANDATORY to include all changes previously agreed by RAN WG3 (NEVER mix it with modifications proposed just by the rapporteur. The only case where this would be acceptable is the skeleton version v0.0.1.).
      - Conclusion: RAN WG3 agrees the TR to become vx.x+1.0. If there are just minor and very clear modifications then it is also possible 'to agree TR vx.x.z with the modifications ... to become vx.x+1.0'. However, for bigger modifications it is better that the rapporteur provides an updated rapporteur's version vx.x.z+1.
   c. RAN3 agreed versions of a TR (TR version is vx.x.z with $z = 0$):
      - Document type: 'TR'.
      - Contents: Is a complete TR which is based on a rapporteur's update which was agreed in RAN WG3.
      - Source: Can only be provided by the rapporteur.
      - Title: Useful to have 'RAN WG3 agreed TR' in the Tdoc title.
      - Revision marks: No revision marks are used in this TR.
      - Conclusion: As RAN WG3 agreed the final rapporteur's version already (sometimes with minuted modifications), this TR is provided for completeness and usually just 'noted' in the Tdoc list.
      If the rapporteur's version was agreed without modifications then it is not necessary to present the RAN3 agreed version, i.e. a submission of this TR during or shortly after the RAN WG3 meeting is sufficient.

The development of a TR is done in the following steps:
- I.   Rapporteur provides a skeleton TR/first rapporteur's version v0.0.1 (see 2b) of the TR.
- II.   Rapporteur and other delegates provide contributions to the TR (see 2a.).
- III.   Rapporteur provides based on v0.0.1 a rapporteur's version v0.0.2 including all agreed contributions (see 2b.).

IV.	RAN WG3 agrees v0.0.2 to become v0.1.0 and the rapporteur will provide v0.1.0 without revision marks (see 2c.).
V.	Based on v0.1.0 the rapporteur and other delegates provide new contributions to the TR (see 2a.).
VI.	Rapporteur provides based on v0.1.0 a rapporteur's version v0.1.1 including all agreed contributions (see 2b.).
VII.	RAN WG3 agrees v0.1.1 to become v0.2.0 and the rapporteur will provide v0.2.0 without revision marks (see 2c.) and so on.

Usually it should be the GOAL to have a RAN WG3 agreed version of each TR (which was modified) at the end of a RAN WG3 meeting because other WGs or TSGs might need these TRs as input documents and RAN WG3 delegates need to have an agreed base to base their TR contributions on for the next RAN WG3 meeting.

As this is not always possible (e.g. TR contributions treated at the end of a meeting or too many contributions to provide the rapporteur's version during a meeting or no time left to treat a rapporteur's version or to note the final RAN3 agreed version) the following minimum procedure has to be followed in this case:

The rapporteur will get a RAN WG3 Tdoc number during the RAN WG3 meeting and has to provide its corresponding rapporteur's version on the RAN WG3 reflector with all RAN WG3 agreements of this meeting before the end of the week following the week of the meeting. This version will appear in the Tdoc list and the meeting minutes as 'not treated' and it is intended to be reviewed by RAN WG3 on the email reflector.
If there are comments to this TR version on the reflector then the rapporteur will provide an updated rapporteur's version without Tdoc number on the RAN WG3 reflector (at least 2 weeks before the next RAN WG3 meeting).
Either the version with a RAN WG3 Tdoc number (if there were no comments) or the updated rapporteur's version of the TR without Tdoc number (if there were comments) will serve as a base for the input contributions of the next RAN WG3 meeting. The rapporteur will take care that this version will be submitted to the next RAN WG3 meeting WITHOUT any further changes and requesting A NEW TDOC NUMBER for this meeting.
Usually this version should be easily agreed in RAN WG3 as there was time enough to review it.
Nevertheless, in case of conflicts with some text paragraphs it is the rapporteur's task to take care that all new contributions agreed at the new meeting but based on the not yet officially agreed TR are included properly in a future rapporteur's version.

NOTE: For cases where the TR has to be submitted to TSG RAN for information or approval, the rapporteur's version MUST be agreed in the RAN WG3 meeting before (i.e. the procedure above is not applicable) unless an email approval of rapporteur's version of the TR is agreed in RAN WG3.

Point 2. above also applies for a TS.

5.3.5   WI/SI status reports

For work and study items regular updates of status reports have to provided to TSG RAN.
Two cases have to be distinguished:

A. Work or study items where TSG RAN WG3 is the leading WG:

To have a TSG RAN WG3 agreed status report it is MANDATORY to have a rapporteur's status report (source: company) presentation on the last day of the TSG RAN WG3 meeting before the TSG RAN meeting. A corresponding template can be found under ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/Latest_Templates/.
Once the contents of the status report is agreed by TSG RAN WG3, the rapporteur will request a corresponding TSG RAN Tdoc number, update the Tdoc header and source field (now: TSG RAN WG3) and provide it to TSG RAN.

B. Work or study items where TSG RAN WG3 is NOT the leading WG:

Since the status report has to be provided by another WG, TSG RAN WG3 has just to inform the rapporteur in this WG about the TSG RAN WG3 progress. Usually RAN WG3 delegates of the rapporteur's company are asked to provide a few sentences for the TSG RAN WG3 report and to inform the rapporteur in the other WG offline.

6 TSG RAN WG3 work plan

6.1 TSG RAN WG3 Technical Specifications (TS) and Technical Reports (TR)

Click on spec number for details

TS 25.401	UTRAN overall description	WARNER, Martin
TS 25.402	Synchronization in UTRAN Stage 2	TONESI, Dario
TS 25.410	UTRAN Iu interface: General aspects and principles	WARNER, Martin
TS 25.411	UTRAN Iu interface layer 1	REININGER, Philippe
TS 25.412	UTRAN Iu interface signalling transport	NG, Cheng Hock
TS 25.413	UTRAN Iu interface Radio Access Network Application Part (RANAP) signalling	TONESI, Dario
TS 25.414	UTRAN Iu interface data transport & transport signalling	ISRAELSSON, Martin
TS 25.415	UTRAN Iu interface user plane protocols	ISRAELSSON, Martin
TS 25.419	UTRAN Iu-BC interface: Service Area Broadcast Protocol (SABP)	MCWILLIAMS, Brendan
TS 25.420	UTRAN Iur interface general aspects and principles	WARNER, Martin
TS 25.421	UTRAN Iur interface layer 1	REININGER, Philippe
TS 25.422	UTRAN Iur interface signalling transport	WARNER, Martin
TS 25.423	UTRAN Iur interface Radio Network Subsystem Application Part (RNSAP) signalling	ISRAELSSON, Martin
TS 25.424	UTRAN Iur interface data transport & transport signalling for Common Transport Channel data streams	WARNER, Martin
TS 25.425	UTRAN Iur interface user plane protocols for Common Transport Channel data streams	WARNER, Martin
TS 25.426	UTRAN Iur and Iub interface data transport & transport signalling for DCH data streams	TONESI, Dario
TS 25.427	UTRAN Iur/Iub interface user plane protocol for DCH data streams	TONESI, Dario
TS 25.430	UTRAN Iub Interface: general aspects and principles	WILSON, Mick
TS 25.431	UTRAN Iub interface Layer 1	REININGER, Philippe
TS 25.432	UTRAN Iub interface: signalling transport	WILSON, Mick

TS 25.433	UTRAN Iub interface Node B Application Part (NBAP) signalling	WARNER, Martin
TS 25.434	UTRAN Iub interface data transport and transport signalling for Common Transport Channel data streams	LAVASANI, Shahab
TS 25.435	UTRAN Iub interface user plane protocols for Common Transport Channel data streams	NG, Cheng Hock
TS 25.442	UTRAN implementation-specific O&M transport	HAUSER, Alexander
TS 25.444	Iuh data transport	WARNER, Martin
TS 25.446	MBMS synchonisation protocol (SYNC)	TONESI, Dario
TS 25.450	UTRAN Iupc interface general aspects and principles	FLORE, Dino
TS 25.451	UTRAN Iupc interface layer 1	FLORE, Dino
TS 25.452	UTRAN Iupc interface: signalling transport	FLORE, Dino
TS 25.453	UTRAN Iupc interface Positioning Calculation Application Part (PCAP) signalling	FLORE, Dino
TS 25.460	UTRAN Iuant interface: General aspects and principles	KULAKOV, Alexej
TS 25.461	UTRAN Iuant interface: Layer 1	KULAKOV, Alexej
TS 25.462	UTRAN Iuant interface: Signalling transport	KULAKOV, Alexej
TS 25.463	UTRAN Iuant interface: Remote Electrical Tilting (RET) antennas Application Part (RETAP) signalling	KULAKOV, Alexej
TS 25.466	UTRAN Iuant interface : Application part	KULAKOV, Alexej
TS 25.467	UTRAN architecture for 3G Home Node B (HNB); Stage 2	TONESI, Dario
TS 25.468	UTRAN Iuh Interface RANAP User Adaption (RUA) signalling	WARNER, Martin
TS 25.469	UTRAN Iuh interface Home Node B (HNB) Application Part (HNBAP) signalling	WARNER, Martin
TS 25.471	UTRAN Iurh interface Radio Network Subsystem Application Part (RNSAP) User Adaption (RNA) signalling	WARNER, Martin
TS 25.484	Automatic Neighbour Relation (ANR) for UTRAN; Stage 2	ZHAI, Hengxing
TR 25.801	Feasibility study for improved access to User Equipment (UE) measurement data for Controlling Radio Network Controller (CRNC) to support Time Division Duplex (TDD) Radio Resource Management (RRM)	MILLER, Jim
TR 25.802	Remote control of electrical tilting antennas	HAUSER, Andreas
TR 25.807	Low output powers for general purpose Frequency Division Duplex (FDD) Base Station (BS)	BURGOS MARTÍNEZ, Ana
TR 25.832	Manifestations of Handover and SRNS relocation	TOWNEND, Richard

TR 25.838	Node B Synchronisation for TDD (Iub/Iur aspects)	LENHART, Johannes
TR 25.849	DSCH power control improvement in soft handover	HWANG, Woonhee
TR 25.850	UE positioning in UTRAN Iub/Iur protocol aspects	HAUTALA, Jari
TR 25.851	RAB Quality of Service (QoS) Renegotiation over Iu	IRWIN, Sania
TR 25.853	Delay budget within the access stratum	VON BRANDT, Armin
TR 25.875	NAS node selector function	MCWILLIAMS, Brendan
TR 25.877	High Speed Downlink Packet Access (HSDPA) – Iub/Iur Protocol Aspects	DIESEN, Michael
TR 25.878	RL timing adjustment	VOLTOLINA, Elena Eva
TR 25.879	Separation of resource reservation and radio link activation	VAN LIESHOUT, Gert-Jan
TS 25.880	Re-arrangement of Iub transport bearers	HAUTALA, Jari
TR 25.881	Improvement of Radio Resource Management (RRM) across RNS and RNS/BSS	HWANG, Woonhee
TR 25.883	Direct Transport Bearers Between SRNC and Node-B	VAN LIESHOUT, Gert-Jan
TR 25.884	Iur Neighbouring cell reporting efficiency optimisation	VOLTOLINA, Elena Eva
TR 25.901	Network Assisted Cell Change (NACC) from UTRAN to GERAN; Network side aspects	HALL, Edward
TR 25.902	Iub/Iur congestion control	MCWILLIAMS, Brendan
TR 25.931	UTRAN functions, examples on signalling procedures	CATALANO, Giuseppe
TR 25.933	IP transport in UTRAN	WARNER, Martin
TR 25.934	AAL2 QoS optimization	YOSHIMURA, Takayuki
TR 25.935	RRM optimisation	VAN LIESHOUT, Gert-Jan
TR 25.936	Handover for realtime services from PS-domain	MOUSSET, Claire
TR 25.937	UTRAN TDD low chiprate	XU, Bing
TR 25.946	RAB Quality of Service (QoS) Negotiation over Iu	VESELY, Alexander
TR 25.953	TrFO/TFO	VESELY, Alexander
TR 25.954	Migration to modification procedure	YOSHIMURA, Takayuki
TS 29.108	Application of the Radio Access Network Application Part (RANAP) on the E-interface	TONESI, Dario
TR 30.531	Work Plan and Study Items – RAN WG3	KORHONEN, Juha
TS 36.401	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Architecture description	NG, Cheng Hock

TS 36.410	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1 general aspects and principles	GODIN, Philippe
TS 36.411	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 layer 1	WANG, Xuelong
TS 36.412	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 signalling transport	HAPSARI, Wuri
TS 36.413	Evolved Universal Terrestrial Radio Access (E-UTRA) ; S1 Application Protocol (S1AP)	TONESI, Dario
TS 36.414	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); S1 data transport	REININGER, Philippe
TS 36.420	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 general aspects and principles	HELMERS, Hakon
TS 36.421	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 layer 1	WANG, Xuelong
TS 36.422	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 signalling transport	HAPSARI, Wuri
TS 36.423	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 Application Protocol (X2AP)	DREVÖ, Markus
TS 36.424	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); X2 data transport	REININGER, Philippe
TS 36.440	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); General aspects and principles for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	GODIN, Philippe
TS 36.441	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Layer 1 for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	ISRAELSSON, Martin
TS 36.442	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Signalling Transport for interfaces supporting Multimedia Broadcast Multicast Service (MBMS) within E-UTRAN	ISRAELSSON, Martin
TS 36.443	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M2 Application Protocol (M2AP)	XU, Steven
TS 36.444	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M3 Application Protocol (M3AP)	ZHAI, Hengxing
TS 36.445	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); M1 Data Transport	ZHAI, Hengxing
TS 36.455	Evolved Universal Terrestrial Radio Access (E-UTRA); LTE Positioning Protocol A (LPPa)	DREVÖ, Markus

TS 36.456	SLm General Aspects and Principles	BROOKS,Terri
TS 36.457	SLm Layer 1	BROOKS,Terri
TS 36.458	SLm Signaling Transport	BROOKS,Terri
TS 36.459	SLm Application Protocol	BROOKS,Terri
TR 36.836	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Mobile Relay for E-UTRA	HU, Haijing
TR 36.887	Study on Energy Saving Enhancement for E-UTRAN	BOUBACAR, Kimba Dit Adamou
TR 36.902	Evolved Universal Terrestrial Radio Access Network (E-UTRAN); Self-configuring and self-optimizing network (SON) use cases and solutions	NEUBACHER, Andreas
TR 36.927	Potential solutions for energy saving for E-UTRAN	YANG, Ning
TR 37.803	Mobility Enhancements for H(e)NB	WARNER, Martin
TR 37.813	LTE-HRPD Inter RAT SON	WU, Jin lian
TR 37.822	Study on next generation Self-Optimizing Network (SON) for UTRAN and E-UTRAN	KORDYBACH, Krzysztof
TR 37.852	RAN Enhancements for UMTS/HSPA and LTE Interworking	ZHANG, Meng

Explanations to the table of TSs and TRs above:

- TS/TR column indicates whether it is a Technical Specification (TS, normative) or Technical Report (TR, informative).
  There are different sorts of TRs:
  - 25.9xx: TRs intended for publication, i.e. visible outside 3GPP,
  - 25.8xx: TRs not intended for publication, i.e. only visible inside 3GPP,
  - 30.xxx: 3GPP internal TRs for 3GPP Programme Management,
  - R3.0xx: TSG RAN WG3 internal TRs, only visible inside TSG RAN WG3, i.e. existing in Tdocs.

- The TS/TR numbers include only those which are under control of TSG RAN WG3, i.e. only TSG RAN WG3 is making CRs to/editing these TSs/TRs.
  The general numbering scheme is explained in TR 21.900 [3]. More details about the TSG RAN WG3 specification numbering for the different interfaces can be found in TS 25.410 (Iu) [8], TS 25.420 (Iur) [9], TS 25.430 (Iub) [10], TS 25.450 (Iupc) [11].

- Rapporteur is the editor of the TS/TR as long as the TS/TR is below version 3.0.0. For versions equal or higher than version 3.0.0 the TS/TR is under change control, i.e. Change Requests (CR) have to be filled out and approved by TSG RAN to be able to change anything in the TS/TR and only MCC is allowed to implement the CRs.
  For further details about the role of the rapporteur see TR 21.900 [3].

Note: The ownership of TS 25.461 [12] is divided between TSG WG RAN3 and RAN4, although RAN3 is the "main owner". The following TS 25.461 [12] sections belong to TSG WG RAN4:

Chapter 4.3.1. Interference with existing systems; except modem frequency accuracy.
Chapter 4.3.3 Impedance
Chapter 4.3.4.2 Spectrum emission mask
Chapter 4.3.7 Operating bands
Chapter 4.3.8 Time Delay and Accuracy
Chapter 4.3.9 Insertion Loss
Chapter 4.3.10 DC port isolation
Chapter 4.3.11 RET control unit spurious emission
Annex A Test procedures

A CR modifying any of the sections owned by RAN4 have to submitted to RAN4 for endorsement, and then if successful, the endorsed CR should be submitted to RAN3 for agreement. However, if the CR addresses any other sections of TS 25.461 [12], then it is handled as a normal RAN3 CR with no need to inform RAN4 about it. All agreed TS 25.461 [12] CRs will be presented to the TSG RAN plenary for approval by RAN3.

6.1.1 RAN3 Internal TRs

As a means to document the progress of its work, RAN3 may occasionally create internal TRs. An internal TRs is maintained by a rapporteur. Internal TRs are not presented for RAN pleanary and they are not meant to be published as such. Internal TRs are stored in:

ftp://ftp.3gpp.org/tsg_ran/WG3_Iu/R3_internal_TRs/

No.	Title	Current rapporteur	Company	Release	Actively maintained	Comments
R3.001	Open SMLC-SRNC interface to support UTRAN Rel.4 positioning methods	?	Siemens (formerly Nokia)		no	WI finalised at RAN #21
R3.002	Iur Common Transport Channel Efficiency Optimisation	Shahrokh Amirijoo*	Ericsson	Rel-5	no	WI finalised
R3.003	UE positioning enhancements for 1.28Mcps TDD	Bing Xu*	CATT	Rel-5	no	WI finalised
R3.004	Node B synchronisation for 1.28Mcps TDD	Bing Xu*	CATT	Rel-5	no	WI finalised
R3.005	Enhancements on DSCH hard split mode	Sungho Choi	Samsung	Rel-5	no	WI finalised
R3.006	Improved support of inter-frequency/system measurements	Joon Goo Park* (Samsung)?	Nokia	Rel-5	no	WI closed at RAN#25
R3.007	Improved usage of DL resource in FDD for CCTrCHs of dedicated type	?	Nortel		no	WI closed at RAN #17
R3.008	Open interface between the SMLC and the SRNC within the UTRAN to support A-GPS Positioning	Ie-Hong Lin*	Qualcomm		no	R3.008 never used since 25.45x introduced

No.	Title	Current rapporteur	Company	Release	Actively maintained	Comments
R3.009	Improved common DL channel for CELL_FACH state	Kourosh Parsa*	GBT		no	R3.009 never used
R3.010	SRNS relocation procedure enhancement	Olivier Guyot	Nokia	Rel-5	no	SI closed at RAN #17
R3.011	Improvement of inter-frequency and inter-system measurement for 1.28Mcps TDD	Joon Goo Park*	Samsung	Rel-5	no	SI finalised at RAN #21
R3.012	Shared Network support in connected mode	Erik Slotboom*	Ericsson	Rel-5	no	WI closed at RAN #17
R3.013	Introduction of the Multimedia Broadcast Multicast Service (MBMS) in RAN	Tuomas Hakuli	Nokia	Rel-6	no	WI completed at RAN#26
R3.014	Support of Subscriber & Equipment Trace in UTRAN; (Release 6)	Yann Sehedic	Nortel	Rel-6	no	WI started at RAN #20, TR started at RAN3 #37. Final version made in RAN3#42
R3.015	FDD Enhanced Uplink: UTRAN Iub/Iur protocol aspects	Saso Stojanovski	Nortel	Rel-6	no	WI started at RAN#23. Last update at RAN3#46.
R3.016	7.68Mcps TDD option: UTRAN Iub/Iur Protocol Aspects	Peter Legg	IPWireless	Rel-7	no	WI finished at RAN#31. Last update at RAN3#52.
R3.017	3.84 Mcps TDD Enhanced Uplink: UTRAN Iub/Iur Protocol Aspects	Jim Miller	Interdigital	Rel-7	no	TR started at RAN3#47. Last update at RAN3#53.
R3.018	Evolved UTRA and UTRAN; Radio Access Architecture and Interfaces	Brendan McWilliams	Vodafone	Rel-7	no	TR started at RAN3#48. Last update at RAN3#57bis.
R3.019	1.28 Mcps TDD Enhanced Uplink	Haijing Hu	CATT, ZTE	Rel-7	no	TR started at RAN3#52. Last update at RAN3#56.
R3.020	Home NodeB, Network Aspects	Demian Martos-Riano	Nokia Siemens Networks	Rel-8	no	TR started at RAN3#56. Last update at RAN3#61.
R3.021	Enhancements for SRNS Relocation	Masatoshi Nakamata	Nokia Siemens Networks	Rel-8	no	TR started at RAN3#57bis. Last update at RAN3#61.
R3.022	Enhancements for FDD HSPA Evolution	Masatoshi Nakamata	Nokia Siemens Networks	Rel-8	no	TR started at RAN3#57bis. Last update at RAN3#61.

No.	Title	Current rapporteur	Company	Release	Actively maintained	Comments
R3.023	Self-configuring and self-optimizing network (SON) use cases and solutions	Andreas Neubacher	Deutsche Telekom	Rel-10	no	TR started at RAN3#68.
R3.024	Carrier-based HetNet ICIC use cases and solutions	Krzysztof Kordybach	Nokia Siemens Networks	Rel-11	yes	TR started at RAN3#73.

6.2 Work and study items relevant for TSG RAN WG3

This clause summarizes all work items (WI) and study items (SI) agreed by TSG RAN which are relevant for TSG RAN WG3 for the different Releases. The list includes all open WI/SIs and also WI/SIs which have been closed in the last RAN plenary meeting.

Disclaimer: All information in this clause is for TSG RAN WG3 internal information. The official 3GPP work plan can be downloaded from ftp://ftp.3gpp.org/Information/WORK_PLAN/.
Note: A summary of TSG RAN work and study item descriptions can be found after each TSG RAN meeting in a RAN meeting report, attached as an Excel table.

The WI/SI descriptions include objective/justification as well as milestones, deliverables and responsibilities of the working groups.

RAN3 Work Items Update after meeting RAN#60:

UID	Acronym	WI or SI	Title	REL	leading WG	started	finished or target	level in %	status	latest WID/SID	latest status report	rapporteur
430111	LCS_LTE-NBPS-Core	WI	Core part: Network-Based Positioning Support in LTE	Rel-11	R2,R1,R3,R4	March 09	June 13	100	Closed	RP-120859	RP-130483	TruePosition
510133	LTE_CA_HetNet_ICIC-Core	WI	Core part: Carrier based HetNet ICIC for LTE	Rel-11	R3,R1,R2	March 11	June 13	40	Closed	RP-121198	RP-130500	Nokia Siemens Networks
530054	FS_LTE_mobRelay	SI	Study on Mobile Relay for E-UTRA	Rel-11	R3,R1,R2,R4	Sept 11	Sept 13	80	Open	RP-122010	RP-130584	CATT
550020	FS_LTE_HRPD_SON	SI	Study on LTE-HRPD inter RAT SON	Rel-11	R3	March 12	June 13	100	Closed	RP-121982	RP-130585	China Telecom
570121	EHNB_enh3-Core	WI	Core part: Further enhancements to H(e)NB mobility - Part 3	Rel-12	R3	Sept 12	Dec 13	87	Open	RP-130741	RP-130495	Alcatel-Lucent
580038	FS_LTE_D2D_Prox	SI	Study on LTE Device to Device Proximity Services	Rel-12	R1,R2,R3,R4	Dec.12	March 14	15	Open	RP-122009	RP-130820	Qualcomm
580043	FS_EDCH_enh	SI	Study on Further EUL Enhancements	Rel-12	R2, R1,R3	Dec.12	Dec 13	30	Open	RP-130347	RP-130574	Ericsson
580044	FS_LTE_SC_enh_hilayer	SI	Study on Small Cell Enhancements for E-UTRA and E-UTRAN – Higher-layer aspects	Rel-12	R2, R3	Dec.12	Sept 13	67	Open	RP-122033	RP-130589	NTT DOCOMO
580046	FS_Netw_Energy_enh_LTE	SI	Study on Energy Saving Enhancement for E-UTRAN	Rel-12	R3	Dec.12	Dec 13	20	Open	RP-122035	RP-130591	CMCC
580047	FS_HSPA_LTE_interworking	SI	Study on RAN Enhancements for UMTS/HSPA and LTE Interworking	Rel-12	R3	Dec.12	Dec 13	30	Open	RP-122036	RP-130577	China Unicom

580048	FS_UTRA_LTE_NG_SON	SI	Study on next-generation SON for UTRA and LTE	Rel-12	R3	Dec.12	Dec 13	15	Open	RP-122037	RP-130578	Nokia Siemens Networks
580127	LTE_TDD_eIMTA-Core	WI	Core Part: Further Enhancements to LTE TDD for DL-UL Interference Management and Traffic Adaptation	Rel-12	R1,R2,R3, R4	Dec.12	Dec 13	20	Open	RP-121772	RP-130505	CATT
580128	LCR_TDD_HSPA_sign_enh-Core	WI	Core Part: HSPA signalling enhancements for more efficient resource usage for LCR	Rel-12	R1,R2,R3, R4	Dec.12	Dec 13	97	Open	RP-121984	RP-130490	CATT
580130	EHNB_enh2_X2GW-Core	WI	Core part: Further enhancements for HeNB mobility-X2-GW	Rel-12	R3	Dec.12	Dec 13	25	Open	RP-122006	RP-130507	Alcatel-Lucent
590119	LCS_BDS-UTRA-Core	WI	Core part: Support for BeiDou Navigation Satellite System (BDS) for UTRA	Rel-12	R2, R3	March 13	March 14	3	Open	RP-130416	RP-130492	ZTE
590120	LIMONET-RAN-Core	WI	Core part: RAN aspects for SIPTO at the Local Network	Rel-12	R3	March 13	March 14	20	Open	RP-130372	RP-130499	Huawei
590121	REP_WMD-RFR_PWS-Core	WI	Core part: Public Warning System - Reset/Failure/Restart in Warning Message Delivery in LTE	Rel-12	R3	March 13	Dec 13	5	Open	RP-130398	RP-130510	one2many
600018	FS_HNB_warn_area	SI	Study on HNB Emergency Warning Area for UTRA	Rel-12	R3	June 13	March 14	0	New	RP-130859	-	Alcatel-Lucent
600117	UTRA_HNB_Pos-Core	WI	Core part: HNB Positioning for UTRA	Rel-12	R3	June 13	Dec 13	0	New	RP-130868	-	Alcatel-Lucent
600127	LTE_HRPD_SON-Core	WI	Core part: LTE-HRPD (High Rate Packet Data in 3GPP2) inter-RAT SON	Rel-12	R3	June 13	June 14	0	New	RP-130831	-	China Telecom

7 TSG RAN / RAN WG3 meeting schedule for 2013 - 2014

2013	TITLE	TYPE	DATES	LOCATION	CTRY
Aug	3GPP RAN3#81	OR	19 - 23 Aug	Barcelona	ES
Sep	3GPP RAN#61	OR	3 - 6 Sep	Porto	PT
Oct	3GPP RAN3#81-BIS	OR	7 - 11 Oct	Venice	IT
Nov	3GPP RAN3#82	OR	11 - 15 Nov	San Francisco	US
Dec	3GPP RAN#62	OR	3 - 6 Dec	Busan	KR
2014					
Feb	3GPP RAN3#83	OR	10 - 14 Feb	Prague	CZ
Mar	3GPP RAN#63	OR	3 - 6 Mar		JP
Mar	3GPP RAN3#83-BIS	OR	31 Mar - 4 Apr		
May	3GPP RAN3#84	OR	19 - 23 May	Seoul	KR
Jun	3GPP RAN#64	OR	10 - 13 Jun	Sophia Antipolis	FR
Aug	3GPP RAN3#85	OR	18 -22 Aug	Dresden	DE
Sep	3GPP RAN#65	OR	9 - 12 Sep	Edinburgh	GB
Oct	3GPP RAN3#85-BIS	OR	6 - 10 Oct		CN
Nov	3GPP RAN3#86	OR	17 - 21 Nov		
Dec	3GPP RAN#66	OR	9 - 12 Dec		US

Annex A:
Isolated Impact CRs for RAN WG3 interfaces

A.1 Introduction

This paper seeks to clarify the term "Isolated Impact" and enhance the RAN #12 definition to apply to RAN Working Group 3. A previous paper on this topic was submitted by the author and treated at RAN3 #23 (R3-012691). The updates in this newer version reflect agreements made by the RAN3 community over the email reflector. Also, another change from the previous treatment is to give an example illustrating usage in line rather than attaching several CR example attachments.

Purpose of Isolated Impact

Isolated Impact replaces the backward compatibility statement in CR headers as even though a change may be backward compatibility, there may be possibility that an implementation would not be compatible.

Definition of an Isolated Impact change

A Change implemented in version N of a 3GPP release has "Isolated Impact" when the following conditions are all met:

- Any functionality that was working in versions prior to version N still works with a Node X that implements version N and a Node Y implementing version N-1

- Any functionality that was working in versions prior to version N still works with a Node X that implements version N and a Node Y implementing version N

Node X, Node Y refers to UTRAN logical elements, i.e. for RAN3 this would include: Node B, RNC, 3G SGSN, 3G MSC, SAS.

Only consideration of interworking with version N-1 is required. This should permit interworking with any prior versions of the specifications in which the functionality was working, although exceptions may exist. This definition of N and N-1 is only within a frozen release (currently only R99 applies).

An "Isolated Impact" change needs to be implemented by all Nodes if they support the corrected functionality so that the standard (and the functionality that it intends to correct) works.

A.2 Illustrating Isolated Impact Usage

Possible actions when functionality is found erroneous

- Make an "Isolated Impact" change that corrects or deletes the function

- Make a non "Isolated Impact" change that corrects the function

- State that the erroneous function is not supported, and make the correction in the next release

Action when functionality is found ambiguous, or some text needed to clarify a common understanding

- Provide necessary clarifications with an "Isolated Impact" change

- State

- « Correction to a function where the specification was:

  o Ambiguous or not sufficiently explicit.

- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Action when there are conflicting descriptions of functionality

- Resolve conflict with an "Isolated Impact" change

- State

- « Correction to a function where the specification was:

    o   Containing some contradictions.

Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Action when procedural text or rules missing for a functionality

- Add new description text with an "Isolated Impact" change

- State

- « Correction to a function where the specification was:

    o   Procedural text or rules were missing.

- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Action when editorial changes (e.g. spelling) or format changes (e.g. tabular format indenting) are required

- Make editorial or format changes with an "Isolated Impact" change

- State

- « Correction to a function where the specification was:

    o   Editorial or format changes only.

- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Action when protocol changes are required but functionality is essentially unchanged

- Make protocol changes with an "Isolated Impact" change

- State

- « Correction to a function where the specification was:

    o   Protocol changes but functionality was unchanged.

- Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. »

Note: a combination of the 3 cases above may be used depending on the CR.

Impact Analysis

An impact analysis should provide the following:

- Define clearly the functionality which does not work

- Describe the correction which is being brought

- If applicable, state differences in implementation that would be generated when an isolated impact change is being introduced

- When the change is or is not "Isolated Impact" (i.e. "no impact" changes would NOT include the following), state the consequence in the following cases:

    o   Node Y implements the change, but not Node X

    o   Node X implements the change, but not Node Y

The template for Impact Analysis is described below and shall be followed for all CRs that include an Impact Analysis:

Impact Analysis:

Impact assessment towards the previous version of the specification (same release):

This CR has [no impact/isolated impact/non isolated impact] with the previous version of the specification (same release) because […]

 ---- ONLY if there is impact following shall also be included: ----

This CR has an impact under [protocol/functional/protocol & functional] point of view.

The impact [can/cannot] be considered isolated because the change affects [one/more than one] [system function/functions].

The Impact Analysis shall always be required to assess impact on the previous version of same specification within the same release. In addition, it may be foreseen in some instances (for CRs for Rel-4 or higher) there may be a compatibility problem so that the Impact Analysis towards the previous version of same specification from previous releases may be optionally included as necessary.

The choices within brackets are to be treated as options. The notation […] is meant for CR author to provide detailed justification. An example will be presented illustrating this in the next section.

A.3 Example of usage of Impact Analysis

Consider an example of a clarification type of change within Rel-X. The technical details of what that change may be are not important or necessarily accurate. The important information to note is the text that applies to the analysis. This analysis is for assessing the impact of version N+1 (in which this change would take effect) against version N (which has the problem) of that same specification within the same release. The following would appear within the "Summary of Change" field within the CR header:

Change text of section 8.9.2 to be clear that CN stops TRELOCcomplete timer upon reception of RELOCATION COMPLETE message. This CR also fixes the spelling of this timer as used in the Relocation Preparation procedure.

Impact Analysis:

Impact assessment towards the previous version of the specification (same release):

This CR has [isolated impact] with the previous version of the specification (same release) because within some existing implementations the timer may be allowed to run to expiration thereby creating an exception scenario that does not exist. The CN (in the case of a timer expiration) would release the Iu connections for both target AND source RNCs thereby causing the call to fail.

ONLY if there is impact:

This CR has an impact under [functional] point of view.

The impact [can] be considered isolated because the change affects [one] [system function] namely the relocation function.

Annex B:
History of TSG RAN WG3 meetings

RAN WG3 #	Date	Location	Country	Host	Following RAN #	(Convenor)/ Chairman	Secretary	RAN WG3 report

RAN WG3 #	Date	Location	Country	Host	Following RAN #	(Convenor)/ Chairman	Secretary	RAN WG3 report
1	02.02.-05.02.99	Bonn	Germany	T-Mobil	2 (02.03.-04.03.99, Fort Lauderdale, Florida, USA)	Per Willars	Atte Länsisalmi	R3-99109
2	15.03.-19.03.99	Nynäshamn, Stockholm	Sweden	Ericsson	3 (21.04.-23.04.99, Yokohama, Japan)	Per Willars	Richard Townend	R3-99252
3	26.04.-30.04.99	Kawasaki	Japan	Fujitsu	4 (17.06.-19.06.99, Miami, USA)	Per Willars	Richard Townend	R3-99441
4	01.06.-04.06.99	Warwick	UK	Lucent, Motorola	4 (17.06.-19.06.99, Miami, USA)	Per Willars	Richard Townend	R3-99603
5	05.07.-09.07.99	Helsinki	Finland	Nokia	5 (06.10.-08.10.99, Kyongju, Korea)	Per Willars	Richard Townend	R3-99824
6	23.08.-27.08.99	Sophia Antipolis	France	ETSI	5 (06.10.-08.10.99, Kyongju, Korea)	Per Willars	Richard Townend	R3-99a95
7	20.09.-24.09.99	Sophia Antipolis	France	ETSI	5 (06.10.-08.10.99, Kyongju, Korea)	Per Willars	Richard Townend	R3-99d63
8	25.10.-29.10.99	Abiko	Japan	NEC	6 (13.12.-15.12.99, Nice, France)	Jean-Marie Calmel (Vice chairman)	Richard Townend	R3-99h35
9	06.12.-10.12.99	Paris	France	France Telecom, Alcatel	6 (13.12.-15.12.99, Nice, France)	Per Willars	Carolyn Taylor	R3-000006
10	24.01.-28.01.00	Gothenburg	Sweden	Ericsson	7 (13.03.-15.03.00, Madrid, Spain)	Per Willars	Carolyn Taylor	R3-000408
11	28.02.-04.03.00	Sophia Antipolis	France	ETSI	7 (13.03.-15.03.00, Madrid, Spain)	Per Willars	Carolyn Taylor	R3-000987
12	10.04.-13.04.00	Seoul	Korea	Samsung, LGIC, Hyundai	8 (21.06.-23.06.00, Düsseldorf, Germany)	Per Willars	Carolyn Taylor	R3-001260
13	22.05.-26.05.00	Oahu, Hawaii	USA	T1	8 (21.06.-23.06.00, Düsseldorf, Germany)	Per Willars	Carolyn Taylor	R3-001659
14	03.07.-07.07.00	Helsinki	Finland	Nokia	9 (20.09.-22.09.00, Hawaii, USA)	Per Willars	Carolyn Taylor	R3-002197
15	21.08.-25.08.00	Berlin	Germany	Siemens	9 (20.09.-22.09.00, Hawaii, USA)	Per Willars	Carolyn Taylor	R3-002449
16	16.10.-20.10.00	Windsor	UK	BT, Motorola, Nortel, Vodafone	10 (06.12.-08.12.00, Bangkok, Thailand)	Per Willars	Carolyn Taylor	R3-002932
17	20.11.-24.11.00	Chicago	USA	Motorola	10 (06.12.-08.12.00, Bangkok, Thailand)	Jean-Marie Calmel (Vice chairman)	Carolyn Taylor	R3-010004
18	15.01.-19.01.01	Lidingö	Sweden	Ericsson	11 (14.03.-16.03.01, Palm Springs, USA)	Jean-Marie Calmel (Vice chairman)	Carolyn Taylor	R3-010554
19	26.02.-02.03.01	Cardiff	UK	Lucent	11 (14.03.-16.03.01, Palm Springs, USA)	Jean-Marie Calmel (Vice chairman)	Carolyn Taylor	R3-011106
20	02.04.-06.04.01	Beijing	China	CATT	12 (12.06.-15.06.01, Stockholm, Sweden)	Martin Israelsson	Carolyn Taylor	R3-011873
21	21.05.-25.05.01	Busan	Korea	Samsung	12 (12.06.-15.06.01, Stockholm, Sweden)	Martin Israelsson	Carolyn Taylor	R3-011888
22	02.07.-06.07.01	Sophia Antipolis	France	ETSI	13 (18.09.-21.09.01, Beijing, China)	Martin Israelsson	Carolyn Taylor	R3-012178
23	27.08.-31.08.01	Helsinki	Finland	Nokia	13 (18.09.-21.09.01, Beijing, China)	Martin Israelsson	Carolyn Taylor	R3-013035
24	15.10.-19.10.01	New York	USA	GBT, North American Friends of 3GPP	14 (11.12.-14.12.01, Kyoto, Japan)	Martin Israelsson	Carolyn Taylor	R3-013195
25	26.11.-30.11.01	Makuhari	Japan	Fujitsu	14 (11.12.-14.12.01, Kyoto, Japan)	Martin Israelsson	Carolyn Taylor	R3-020004

RAN WG3 #	Date	Location	Country	Host	Following RAN #	(Convenor)/ Chairman	Secretary	RAN WG3 report
26	07.01.-11.01.02	Voesendorf, Vienna	Austria	Siemens	15 (05.03.-08.03.02, Cheju, Korea)	Martin Israelsson	Carolyn Taylor	R3-020290
27	18.02.-22.02.02	Orlando, Florida	USA	Motorola, AWS	15 (05.03.-08.03.02, Cheju, Korea)	Martin Israelsson	Carolyn Taylor	R3-020905
28	08.04.-12.04.02	Kobe	Japan	J-Phone	16 (04.06.-07.06.02, Marco Island, USA)	Martin Israelsson	Carolyn Taylor	R3-021141
29	13.05.-17.05.02	Gyeongju	Korea	Samsung	16 (04.06.-07.06.02, Marco Island, USA)	Martin Israelsson	Carolyn Taylor	R3-021703
30	24.06.-28.06.02	Sophia Antipolis	France	ETSI	17 (03.09.-06.09.02, Biarritz, France)	Martin Israelsson	Joern Krause	R3-021819
31	19.08.-23.08.02	Arlanda, Stockholm	Sweden	Ericsson	17 (03.09.-06.09.02, Biarritz, France)	Martin Israelsson	Joern Krause	R3-022180
32	23.09.-27.09.02	Xi'an	China	CATT	18 (03.12.-06.12.02, New Orleans, USA)	Martin Israelsson	Joern Krause	R3-022505
33	11.11.-15.11.02	Sophia Antipolis	France	ETSI	18 (03.12.-06.12.02, New Orleans, USA)	Martin Israelsson	Joern Krause	R3-030245
34	17.02.-21.02.03	Sophia Antipolis	France	ETSI	19 (11.03.-14.03.03, Birmingham, UK)	Martin Israelsson	Joern Krause	R3-030366
35	07.04.-11.04.03 meeting was cancelled	Seoul	Korea	Samsung	20 (03.06.-06.06.03, Hämeenlinna, Finland)	Alexander Vesely	Joern Krause	R3-030764 cyber meeting
36	19.05.-23.05.03	Paris	France	European Friends of 3GPP	20 (03.06.-06.06.03, Hämeenlinna, Finland)	Alexander Vesely	Joern Krause	R3-031122
37	25.08.-29.08.03	Budapest	Hungary	European Friends of 3GPP	21 (16.09.-19.09.03, Frankfurt, Germany)	Alexander Vesely	Joern Krause	R3-031426
38	06.10.-10.10.03	Sophia Antipolis	France	ETSI	22 (09.12.-12.12.03, Maui, Hawaii, USA)	Alexander Vesely	Joern Krause	R3-031753
39	17.11.-21.11.03	San Diego	USA	North American Friends of 3GPP	22 (09.12.-12.12.03, Maui, Hawaii, USA)	Alexander Vesely	Joern Krause	R3-040138
40	12.01.-16.01.04	Sophia Antipolis	France	ETSI	23 (08.03.-12.03.04, Phoenix, USA)	Alexander Vesely	Joern Krause	R3-040459
41	16.02.-20.02.04	Malaga	Spain	European Friends of 3GPP	23 (08.03.-12.03.04, Phoenix, USA)	Alexander Vesely	Juergen Caldenhoven	R3-040869
41bis	30.03.-01.04.04	Budapest	Hungary	European Friends of 3GPP	23 (08.03.-12.03.04, Phoenix, USA)	Alexander Vesely		-
42	10.05.-14.05.04	Montreal	Canada	North American Friends of 3GPP	24 (02.06.-04.06.04, Seoul, Korea)	Alexander Vesely	Juergen Caldenhoven	R3-041163
43	16.08.-20.08.04	Prague	Czech Republic	European Friends of 3GPP	25 (08.09.-10.09.04, Palm Springs, USA)	Alexander Vesely	Juergen Caldenhoven	R3-041372
44	04.10.-08.10.04	Sophia Antipolis	Europe	ETSI	26 (08.12.-10.12.04, Athens, Greece)	Alexander Vesely	Juergen Caldenhoven	R3-041604
45	15.11.-19.11.04	Shin-Yokohama	Japan	Japanese Friends of 3GPP	26 (08.12.-10.12.04, Athens, Greece)	Alexander Vesely	Juergen Caldenhoven	R3-050240
46	14.02.-18.02.04	Scottsdale	USA	North American Friends of 3GPP	27 (09.03 - 11.03.05, Tokyo, Japan)	Alexander Vesely	Juergen Caldenhoven	R3-050684
47	19.05.-13.05.05	Athens	Greece	European Friends of 3GPP	28 (01.05 - 03.06.05, Quebec City, Canada)	Alexander Vesely	Juergen Caldenhoven	R3-050966
48	29.08.-02.09.05	London	United Kingdom	European Friends of 3GPP	29 (21.09 - 23.09.05, Tallin, Estonia)	Alexander Vesely	Juergen Caldenhoven	R3-051317
48bis	11.10.-14.10.05	Cannes	France	European	30 (29.11 - 02.12.05, St. Julian , Malta)	Alexander Vesely	Juergen	R3-051318

RAN WG3 #	Date	Location	Country	Host	Following RAN #	(Convenor)/ Chairman	Secretary	RAN WG3 report
				Friends of 3GPP			Caldenhoven	
49	07.11.-11.11.05	Seoul	Korea	Samsung	30 (29.11 - 02.12.05, St. Julian , Malta)	Alexander Vesely	Juergen Caldenhoven	R3-060077
50	10.01.-12.01.06	Sophia Antipolis	France	ETSI	31 (08.03. - 10.03.06, Sanya , China)	Alexander Vesely	Juergen Caldenhoven	R3-060290
51	13.02.-17.02.06	Denver	USA	North American Friends of 3GPP	31 (08.03. - 10.03.06, Sanya , China)	Alexander Vesely	Juergen Caldenhoven	R3-060499
51bis	03.04.-05.04.06	Sophia Antipolis	France	ETSI	32 (31.06. - 02.06.06, Warsaw, Poland)	Alexander Vesely	Juergen Caldenhoven	R3-060781
52	08.05.-12.05.06	Shanghai	China	Datang Mobile	32 (31.06. - 02.06.06, Warsaw, Poland)	Alexander Vesely	Juergen Caldenhoven	R3-061267
53	28.08.-01.09.06	Tallinn	Estonia	European Friends of 3GPP	33 (19.09 - 22.09.06, Palm Springs, USA)	Alexander Vesely	Juergen Caldenhoven	R3-061571
53bis	10.10.-13.10.06	Seoul	Korea	Samsung Electronics	34 (29.11 - 01.12.06, Budapest, Hungary)	Alexander Vesely	Juergen Caldenhoven	R3-061867
54	06.11.-10.11.06	Riga	Latvia	European Friends of 3GPP	34 (29.11 - 01.12.06, Budapest, Hungary)	Alexander Vesely	Juergen Caldenhoven	R3-070322
55	12.02-16.02.07	St Louis	USA	North American Friends of 3GPP	35 (06.03 - 09.03, Lemessos, Cyprus)	Alexander Vesely	Juergen Caldenhoven	R3-070687
55bis	27.03.-30.03.07	St Julians	Malta	European Friends of 3GPP	36(29.05-01.06.07, Busan,Korea)	Alexander Vesely	Juergen Caldenhoven	R3-071059
56	07.05.-11.05.07	Kobe	Japan	Japanese Friends of 3GPP	36(29.05-01.06.07, Busan,Korea)	Alexander Vesely	Juergen Caldenhoven	R3-071721
57	20.08.- 24.08.07	Athens	Greece	European Friends of 3GPP	37(11.09-14.09.07, Riga, Latvia)	Alexander Vesely	Juergen Caldenhoven	R3-071965
57bis	08.10.-11.10.07	Sophia Antipolis	France	ETSI	38(27.11-30.11.07, Cancun, Mexico)	Alexander Vesely	Juergen Caldenhoven	R3-072294
58	05.11.-09.11.07	Jeju Island	Korea	Samsung	38(27.11-30.11.07, Cancun, Mexico)	Alexander Vesely	Juergen Caldenhoven	R3-080428
59	11.02.-15.02.08	Sorrento	Italy	European Friends of 3GPP	39(04.03-07.03.08, Puerto Vallarta, Mexico)	Alexander Vesely	Juergen Caldenhoven	R3-080906
59bis	31.03.-03.04.08	Shenzhen	China	ZTE Corp.	40(27.06.-20.08.08, Prague,Chech Republic	Alexander Vesely	Juergen Caldenhoven	R3-081436
60	05.05.-09.05.08	Kansas City	USA	North American Friends of 3GPP	40(27.06.-20.08.08, Prague,Chech Republic	Alexander Vesely	Juergen Caldenhoven	R3-082240
61	18.08.-22.08.08	Jeju Island	Korea	Samsung	41(09.09. -12.09.08, Kobe, Japan)	Alexander Vesely	Juergen Caldenhoven	R3-082765
61bis	30.09 - 04.10.08	Prague	Czech Republic	European Friends of 3GPP	42(02.12 - 05.12.08, Athens, Greece)	Alexander Vesely	Juergen Caldenhoven	R3-083382
62	10.11 - 14.11.08	Prague	Czech Republic	European Friends of 3GPP	42(02.12 - 05.12.08, Athens, Greece)	Alexander Vesely	Juergen Caldenhoven	R3-090422

RAN WG3 #	Date	Location	Country	Host	Following RAN #	(Convenor)/ Chairman	Secretary	RAN WG3 report
63	09.02 - 13.02.09	Athens	Greece	European Friends of 3GPP	43(03.03 - 06.03.09, Biarritz, France)	Alexander Vesely	Gert Thomasen	R3-090695
63bis	23.03 - 26.03.09	Seoul	Korea	LG Electronics	44(26.05 - 29.05.09, Aruba, Netherlands)	Alexander Vesely	Gert Thomasen	R3-091013
64	04.05 - 08.05.09	San Francisco	USA	North American Friends of 3GPP	44(26.05 - 29.05.09, Aruba, Netherlands)	Alexander Vesely	Gert Thomasen	R3-092026
65	24.08 - 28.08.09	Shenzhen	China	Huawei	45 (15.09 - 18.09.09, Seville, Spain)	Alexander Vesely	Juha Korhonen	R3-092183
65bis	12.10 - 15.10.09	Miyazaki	Japan	Japanese Friends of 3GPP	46 (01.12 - 04.12.09, Sanya, China)	Dino Flore	Juha Korhonen	R3-092659
66	09.11 - 13.11.09	Jeju	Korea	Samsung	46 (01.12 - 04.12.09, Sanya, China)	Dino Flore	Juha Korhonen	R3-100002
66bis	18.01 – 22.01.10	Valencia	Spain	European Friends of 3GPP	47 (16.03 – 19.03.10, Vienna, Austria)	Dino Flore	Juha Korhonen	R3-101045
67	22.02 – 26.02.10	San Francisco	USA	North American Friends of 3GPP	47 (16.03 – 19.03.10, Vienna, Austria)	Dino Flore	Juha Korhonen	R3-101351
68	10.05 - 14.05.10	Montreal	Canada	RIM	48 (01.06 – 04.06.10, Seoul, Korea)	Dino Flore	Juha Korhonen	R3-101974
69	23.08 - 27.08.10	Madrid	Spain	European Friends of 3GPP	49 (14.09 - 17.09.10, San Antonio, USA)	Dino Flore	Juha Korhonen	R3-102555
69bis	11.10 - 15.10.10	Xi'an	China	ZTE	50 (07.12 - 10.12.10, Istanbul, Turkey)	Dino Flore	Juha Korhonen	R3-103119
70	15.11 - 19.11.10	Jacksonville	USA	North American Friends of 3GPP	50 (07.12 - 10.12.10, Istanbul, Turkey)	Dino Flore	Juha Korhonen	R3-110002
70bis	17.01 - 21.01.11	Dublin	Ireland	European Friends of 3GPP	51 (15.03 - 18.03.11, Kansas City, USA)	Dino Flore	Juha Korhonen	R3-110441
71	21.02 - 25.02.11	Taipei	Taiwan	HTC, CHTTL, ITRI	51 (15.03 - 18.03.11, Kansas City, USA)	Dino Flore	Juha Korhonen	R3-111095
72	09.05 - 13.05.11	Barcelona	Spain	European Friends of 3GPP	52 (31.05 - 03.06.11, Bratislava, Slovakia)	Dino Flore	John Meredith	R3-111801
73	22.08 - 26.08.11	Athens	Greece	European Friends of 3GPP	53 (13.09 - 16.09.11, Fukuoka, Japan)	Dino Flore	Juha Korhonen	R3-112323
73bis	10.10 - 14.10.11	Zhuhai	China	CATT	54 (06.12 - 09.12.11, Berlin, Germany)	Dino Flore	Juha Korhonen	R3-112711
74	14.11 - 18.11.11	San Francisco	USA	North American Friends of 3GPP	54 (06.12 - 09.12.11, Berlin, Germany)	Dino Flore	Juha Korhonen	R3-120002
75	06.02 - 10.02.12	Dresden	Germany	European Friends of 3GPP	55 (28.02 - 02.03.12, Xiamen, China)	Dino Flore	Juha Korhonen	R3-120463
75bis	26.03 - 30.03.12	San Jose del Cabo	Mexico	North American Friends of 3GPP	56 (13.06 - 15.06.12, Ljubljana, Slovenia)	Dino Flore	Juha Korhonen	R3-120917
76	21.05 - 25.05.12	Prague	Czech Republic	European Friends of 3GPP	56 (13.06 - 15.06.12, Ljubljana, Slovenia)	Dino Flore	Juha Korhonen	R3-121488
77	13.08 - 17.08.12	Qingdao	China	Huawei	57 (04.09 - 07.09.12, Chicago, USA)	Dino Flore	Juha Korhonen	R3-122029
77bis	08.10 - 12.10.12	Lecce	Italy	European Friends of 3GPP	58 (04.12 - 07.12.12, Barcelona, Spain)	Dino Flore	Juha Korhonen	R3-122415
78	12.11 - 16.11.12	New Orleans	USA	North American Friends of 3GPP	58 (04.12 - 07.12.12, Barcelona, Spain)	Dino Flore	Juha Korhonen	R3-130002

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79	28.01 - 01.02.13	St Julian's	Malta	European Friends of 3GPP	59 (26.02 - 01.03.13, Vienna, Austria)	Dino Flore	Juha Korhonen	R3-130441
79bis	15.04 - 19.04.13	Chicago	USA	North American Friends of 3GPP	60 (11.06 - 14.06.13, Oranjestad, Aruba)	Dino Flore	Juha Korhonen	R3-130789
80	20.05 - 24.05.13	Fukuoka	Japan	Japanese Friends of 3GPP	60 (11.06 - 14.06.13, Oranjestad, Aruba)	Dino Flore, Philippe Reininger	Juha Korhonen	R3-131190

Annex C:
Change history

Vers.	Date	RAN WG3	Tdoc	Remarks
1.13.1	August 2013	81	R3-131530	Revised document for RAN3#81
1.13.0	August 2013	81	R3-131191	Input document for RAN3#81
1.12.0	April 2013	79bis	R3-130442	Input document for RAN3#79bis
1.11.0	January 2013	78	R3-130003	Input document for RAN3#78
1.10.0	September 2012	77bis	R3-122030	Input document for RAN3#77bis
1.9.0	July 2012	77	R3-121489	Input document for RAN3#77
1.8.0	March 2012	75bis	R3-120464	Input document for RAN3#75bis
1.7.0	February 2012	75	R3-120003	Input document for RAN3#75
1.6.0	October 2011	73bis	R3-112324	Input document for RAN3#73bis
1.5.0	July 2011	73	R3-111802	Input document for RAN3#73
1.4.0	April 2011	72	R3-111096	Input document for RAN3#72
1.3.0	January 2011	70bis	R3-110003	Input document for RAN3#70bis
1.2.0	October 2010	69bis	R3-102556	Input document for RAN3#69bis
1.1.0	August 2010	69	R3-101976	Input document for RAN3#69
1.0.0	April 2010	68	R3-101424	Input document for RAN3#68
0.35.1	January 2010	66bis	R3-100438	RAN3 agreed version after RAN3#66bis
0.35.0	January 2010	66bis	R3-100003	Input document for RAN3#66bis
0.34.0	September 2009	65bis	R3-092184	Input document for RAN3#65bis
0.33.1	August 2009	65	R3-092026	Corrected Input document for RAN3#65
0.33.0	August 2009	65	R3-091502	Input document for RAN3#65
0.32.0	September 2008	61bis	R3-082767	RAN3 agreed version after RAN3#61bis
0.31.0	August 2008	61	R3-082241	RAN3 agreed version after RAN3#61
0.30.1	June 2008	61	R3-081692	Input document for RAN3#61
0.30.0	March 2008	59bis	R3-080907	RAN3 agreed version after RAN3#59bis
0.29.1	March 2008	59bis	R3-080599	Input document for RAN3#59bis
0.29.0	February 2008	59	R3-080429	RAN3 agreed version after RAN3#59
0.28.1	January 2008	59	R3-080003	Input document for RAN3#59
0.28.0	October 2007	57bis	R3-071971	RAN3 agreed version after RAN3 #57bis
0.27.1	September 2007	57bis	R3-071790	Input document for RAN3#57bis
0.27.0	August 2007	57	R3-071623	RAN3 agreed version after RAN3 #57
0.26.1	July 2007	57	R3-071279	Input document for RAN3#57
0.26.0	May 2007	56	R3-071062	RAN3 agreed version after RAN3 #56
0.25.1	April 2007	56	R3-070769	Input document for RAN3#56
0.25.0	February 2007	55	R3-070324	RAN3 agreed version after RAN3 #55
0.24.1	January 2007	55	R3-070003	Input document for RAN3#55
0.24.0	November 2006	54	R3-061870	RAN3 agreed version after RAN3 #54
0.23.1	October 2006	53bis	R3-061622	Input document for RAN3#54
0.23.0	September 2006	53	R3-061270	RAN3 agreed version after RAN3 #53
0.22.1	July 2006	53	R3-060975	Input document for RAN3#53
0.22.0	April 2006	51bis	R3-060500	RAN3 agreed version after RAN3 #51bis
0.21.1	March 2006	51bis	R3-060409	Input document for RAN3#51bis
0.21.0	January 2006	50	R3-060078	RAN3 agreed version after RAN3 #50
0.20.1	January 2006	50	R3-060000	Input document for RAN3#50
0.20.0	November 2005	49	R3-051319	RAN3 agreed version after RAN3 #49
0.19.1	October 2005	49	R3-051162	Input document for RAN3#49
0.19.0	October 2005	48	R3-050968	RAN3 agreed version after RAN3 #48
0.18.1	August 2005	48	R3-050828	Input document for RAN3#48
0.18.0	July 2005	47	R3-050686	RAN3 agreed version after RAN3 #47
0.17.1	March 2005	47	R3-050zzz	Input document for RAN3#47
0.17.0	March 2005	46	R3-050255	RAN3 agreed version after RAN3 #46
0.16.1	February 2005	46	R3-050003	Input document for RAN3#46

0.16.0	October 2004	44	R3-041373	RAN3 agreed version after RAN3 #44
0.15.1	September 04	44	R3-041253	Input document for RAN3#44
0.15.0	August 04	43	R3-041235	RAN3 agreed version after RAN3 #43
0.14.1	August 04	43	R3-040969	Input document for RAN3#43
0.14.0	May 04	42	R3-040875	RAN3 agreed version after RAN3 #42
0.13.1	April 04	42	R3-040684	Input document for RAN3#42
0.13.0	Jan. 04	40	R3-040005	RAN3 agreed version after RAN3 #40
0.12.1	Jan. 04	40	R3-040004	Editor's proposal for RAN3 #40 for an update
0.12.0	Oct. 03	38	R3-031259	RAN3 agreed version after RAN3 #38
0.11.1	Oct. 03	38	R3-031258	Editor's proposal for RAN3 #38 for an update
0.11.0	Aug. 03	37	R3-030923	RAN3 agreed version after RAN3 #37 (compared to R3-030922 just a few rapporteur names and some meeting locations were updated)
0.10.1	Aug. 03	37	R3-030922	Editor's proposal for RAN3 #37 for an update
0.10.0	Apr. 03	35	R3-030537	RAN3 agreed version (using email approval) after RAN3 #35
0.9.7	Apr. 03	35	R3-030368	Update according to RAN #19 and RAN3 #34 (editor's proposal)
0.9.6	Feb. 03	34	R3-030046	Agreed roposal for a complete restructuring and update of the TR, shift of the TR from R99 to REL-6, slight modification of the title
0.9.5	Apr. 02	28	R3-020906	Made modifications according to TSG RAN#15.
0.9.4	Feb. 02	27 26	R3-020291 R3-020005 (n.a.)	Made modifications according to TSG RAN #14.
0.9.3	Jan. 02	25	R3-013076	Made modifications according to TSG RAN WG3 meeting #24 and meeting #25.
0.9.2	Sep. 01	24	R3-012765	Made modifications according to TSG RAN WG3 meeting #23.
0.9.1	Aug. 01	23	R3-012179	Made modifications according to TSG RAN WG3 meeting #22
0.9.0	Jun. 01	22	R3-011889	Made modifications according to TSG RAN WG3 meeting #21.
0.8.9	May 01	21	R3-011311	Made modifications according to TSG RAN#11 and RAN WG3 meeting #20.
0.8.8	Mar. 01	20	R3-011107	Made modifications according to RAN WG3 meeting #19.
0.8.7	Feb. 01	19	R3-010555	Made modifications based on tdoc R3-010166. Made modifications according to RAN WG3 meeting #18.
0.8.6	Dec. 00	18	R3-010005	Made modifications based on comments.
0.8.5	Nov. 00	?	n.a.	Made modifications according to RAN WG3 meeting #17.
0.8.4	Nov. 00	17	R3-002933	Ch 5.3: meeting schedule updated; Ch 6.3: updated open issues list according to R3 #16; Ch 6.5: updated open issues list according to R3#16; Ch 7.1.1: updated R00 work items according to R3#16; Ch 7.1.2: updated R00 work items according to R3#16.
0.8.3	Oct. 00	16	R3-002579	Updated according to TSG RAN#9.
0.8.2	Sep. 00	?	n.a.	Updated Ch. 6.1 the rapporteur information. In 7.1.2 deleted "Incorporation of narrowband TDD mode".
0.8.1	Aug. 00	15	R3-002001	Updated according to TSG RAN#8.
0.8.0	Jun. 00	14	R3-001660	Editorial corrections
0.7.1	Mar. 00	13 12 12	R3-001261 R3-001104 R3-000989	Ch.6.1: open issue list updated; ch. 8: open issues lists updated according to R3 chairman's status report to RAN#7.
0.7.0	Mar. 00	12	R3-000985 (n.a.)	Approved v.0.6.1 at R3#11.
0.6.1	Feb. 00	11	R3-000420	Ch. 8: l3.05 deleted, 25.414 and 25.415 editor changed, 25.419 added; open issues solved at R3#10 deleted.
0.6.0	Feb. 00	11	R3-000419	Ch. 5.3: meeting schedule updated
0.5.1	Jan. 00	10	R3-000098	Ch. 4.1: editorial; 5.1: 25.402 added, resp. of 25.410/20/30 moved to SWGs; ch. 5.3: meeting schedule added; new ch. 5.4 'Priority of work' added; ch. 6 'Contents and prioritisation in R99' and ch. 7 'Contents and prioritisation in R00' updated according to agreements at RAN#7; ch. 8 'Milestones' – spec. revisions and open issue lists updated acc. to RP(99)611, spec. approval date -> 'approved', sub-rows for 'features under study (sections)' deleted; ch. 9 'Study Items' updated, deleted SIs covered in spec. OI-list ch. 8;
0.5.0	Dec. 99	10 9	R3-000097 R3-99k51	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	Nov. 99	9	R3-99i05	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	Nov. 99	9	R3-99h32	V.0.3.2 approved by R3#8 (Abiko). 25.402 version corrected to v.0.0.1.
0.3.2	Oct. 99	8	R3-99d84	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	Sep. 99	8	R3-99d59	Spec. versions updated in ch. 6. SI-list updated.
0.3.0	Aug. 99	?	n.a.	Study items from WG3#6 in Sophia Antipolis added. Version stepped.
0.2.1	Jul. 99	6	R3-99820	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	Jul. 99	?	n.a.	Updated according to comments at WG3#5 in Helsinki.
0.1.2	Jun. 99	5	R3-99599	Updated according to comments at WG3#4 in Warwick.
0.1.1	May 99	4	R3-99429	Updated according to comments at WG3#3 in Kawasaki.
0.1.0	Apr. 99	3	R3-99249	Version stepped, otherwise same as 0.0.3.
0.0.3	Apr. 99	?	n.a.	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. 99	?	n.a.	Updated according to comments and changes made at WG3#2 in Nynäshamn, Sweden.
0.0.1	Feb. 99	2	R3-99110	First draft

Rapporteur for 30.531:

Juha Korhonen
ETSI Mobile Competence Centre

Tel.: +33 (0)4 92 94 43 52
Fax : +33 (0)4 93 65 47 16
Email : juha.korhonen@etsi.org

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