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## **3<sup>rd</sup> Generation Partnership Project (3GPP); Technical Specification Group (TSG) RAN;**

### **UTRAN Study Items for Future Releases**

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Reference

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# Contents

<b>1</b>	<b>SCOPE</b> .....	<b>5</b>
<b>2</b>	<b>REFERENCES</b> .....	<b>5</b>
<b>3</b>	<b>DEFINITIONS, SYMBOLS AND ABBREVIATIONS</b> .....	<b>5</b>
3.1	DEFINITIONS .....	5
3.2	SYMBOLS .....	5
3.3	ABBREVIATIONS .....	5
<b>4</b>	<b>STUDY ITEM LIST</b> .....	<b>665</b>
<b>5</b>	<b>PARALLELISM IN THE EXECUTION OF NBAP PROCEDURES</b> .....	<b>6</b>
5.1	FEATURE/FUNCTION DESCRIPTION AND STATUS.....	6
5.2	IMPACTS ON SPECIFICATIONS .....	6
5.2.1	<i>Impacted specifications</i> .....	6
5.2.2	<i>Impacts on TS 25.433 (NBAP Specification)</i> .....	6
<b>6</b>	<b>HYBRID ARQ TYPE II / III TECHNIQUES FOR RLC LAYER</b> .....	<b>7</b>
6.1	IMPACTS ON SPECIFICATIONS .....	7
6.1.1	<i>Impacted specifications</i> .....	7
6.1.2	<i>Impacts on specification 1</i> .....	7
6.1.3	<i>Impacts on specification 2</i> .....	887
<b>7</b>	<b>USE OF CORBA FOR IUB LOGICAL O&amp;M</b> .....	<b>887</b>
7.1	IMPACTS ON SPECIFICATIONS .....	8
7.1.1	<i>Impacted specifications</i> .....	8
7.1.2	<i>Impacts on specification 1</i> .....	8
7.1.3	<i>Impacts on specification 2</i> .....	8
<b>8</b>	<b>HISTORY</b> .....	<b>8</b>

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## Foreword

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This Technical Report has been produced by the 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 this TS, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version 3.y.z

where:

- x the first digit:
  - 1 presented to TSG for information;
  - 2 presented to TSG for approval;
  - 3 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 specification.

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# 1 Scope

The scope of this Technical Report is to list technical features and functions of UTRAN (Study Items) that are currently assumed by TSG RAN WG3 to be outside the scope of UMTS Release 99, but that should be considered for future releases. Agreed technical descriptions of these features and functions are also included to the extent they are available.

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## 2 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] TS 25.433 UTRAN Iub interface NBAP Signalling Specification

[2]

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## 3 Definitions, symbols and abbreviations

### 3.1 Definitions

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

### 3.2 Symbols

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

### 3.3 Abbreviations

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

<u>ARQ</u>	<u>Automatic Repeat reQuest</u>
<u>CORBA</u>	<u>Common Object Request Broker</u>
<u>CRNC</u>	<u>Controlling Radio Network Controller</u>
<u>DL</u>	<u>Downlink</u>
<u>NBAP</u>	<u>Node B Application Part</u>
<u>O&amp;M</u>	<u>Operation and Maintenance</u>
<u>RL</u>	<u>Radio Link</u>
<u>RLC</u>	<u>Radio Link Control</u>
<u>SRNC</u>	<u>Serving Radio Network Controller</u>
<u>UL</u>	<u>Uplink</u>

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## 4 Study item list

[Editor's Note: This chapter should include the list of the study items, i.e. the features and functions of UTRAN outside the scope of UMTS Release 99].

The study items outside the scope of UMTS Release 99 are the following (non exhaustive):

- Parallelism in the execution of NBAP procedures.
- Hybrid ARQ Type II / III techniques for RLC layer
- Use of CORBA for Iub Logical O&M

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## 5 Parallelism in the execution of NBAP procedures

### 5.1 Feature/Function description and status

[Editor's Note: This section should include the description of the feature/function related to the study item and its status].

In release 99, it is a working assumption that, except for procedures listed hereafter, there is only one ongoing procedure per UE context i.e. one NBAP procedure cannot be executed as long as another NBAP procedure for the same UE is still on going.

Release 99 procedures that can be initiated in parallel with on-going procedures are the following:

1. DL POWER CONTROL, initiated by the CRNC
2. MEASUREMENT REPORTING PROCEDURE, initiated by the Node B

### 5.2 Impacts on specifications

In further releases, it will be possible to have more than one on going NBAP procedure for a given UE, depending on the on going and the new procedures. Benefits and details are to be clarified.

#### 5.2.1 Impacted specifications

[Editor's Note: This section should list the TSG RAN WG3 specifications, which are impacted by the feature/function].

Impacted RAN WG3 specifications are:

- TS 25.433 (NBAP Specification) [1]

#### 5.2.2 Impacts on -TS 25.433 (NBAP Specification)

[Editor's Note: This subsection should include agreed modifications, text and figures needed for that specification].

The following text is included in chapter 8.

#### 8.x. Procedure management

Table x shows the support for parallel procedure execution by the NBAP protocol.

New procedure \ Ongoing procedure	RL-Setup	RL-Addition	RL-Reconf (unsync)	RL-Reconf (Sync)	RL-Deletion
RL-Setup	<b>Not applicable</b>	<b>Not possible</b>			
RL-Addition		<b>Supported</b> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"><b>Not supported</b></div>			
RL-Reconf (unsync)					
RL-Reconf (sync)					
RL-Deletion					

Note: it is up to an implementation to actually support the parallelism offered by the NBAP protocol. Since all procedures are initiated by an RNC, this RNC can choose not to use the offered parallelism. A simple node\_B implementation might choose to execute all procedures sequentially.

### 5.2.3 ~~Impacts on specification 2~~

~~[Editor's Note: This subsection should include agreed modifications, text and figures needed for that specification].~~

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## 6 Hybrid ARQ Type II / III techniques for RLC layer ~~Feature/Function description and status~~

[Editor's Note: This section should include the description of the feature/function related to the study item and its status].

### 6.1 Impacts on specifications

#### 6.1.1 Impacted specifications

[Editor's Note: This section should list the TSG RAN WG3 specifications which are impacted by the feature/function].

#### 6.1.2 Impacts on specification 1

[Editor's Note: This subsection should include agreed modifications, text and figures needed for that specification].



### 6.1.3 Impacts on specification 2

[Editor's Note: This subsection should include agreed modifications, text and figures needed for that specification].

## 7 Use of CORBA for Iub Logical O&M

[Editor's Note: This section should include the description of the feature/function related to the study item and its status].

### 7.1 Impacts on specifications

#### 7.1.1 Impacted specifications

[Editor's Note: This section should list the TSG RAN WG3 specifications which are impacted by the feature/function].

#### 7.1.2 Impacts on specification 1

[Editor's Note: This subsection should include agreed modifications, text and figures needed for that specification].

#### 7.1.3 Impacts on specification 2

[Editor's Note: This subsection should include agreed modifications, text and figures needed for that specification].

## 8 History

Document history		
V0.0.1	1999-05	Initial Specification Structure
V0.0.2	1999-06	Addition of study item 1 "Parallelism in the execution of NBAP procedures" according to RAN WG3#4 meeting, based on tdoc R3-99449.  <u>This version has been agreed at RAN WG3#5 meeting and goes automatically to V0.1.0 without changes.</u>
<u>V0.1.1</u>	<u>1999-07</u>	<u>Addition of study item " Hybrid ARO Type II / III techniques for RLC layer" according to the decision taken at RAN#4 meeting.</u> <u>Addition of study item " Use of CORBA for Iub Logical O&amp;M" according to the decision taken at RAN#5 meeting.</u>
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This document is written in Microsoft Word version 7/97.		