# TSG-RAN Meeting #15 Cheju, Korea, 5 - 8 March 2002

Title: Agreed CRs to TS 25.401

Source: TSG-RAN WG3

Agenda item: 7.3.3/7.3.4

RP_Num	Tdoc_Num	Specification	CR_Num	Revision_	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	Workitem
RP-020162	R3-020473	25.401	42		R99	New UE identifier for MAC-c/sh multiplexing for DSCH	F	3.8.0	TEI
RP-020162	R3-020474	25.401	43		Rel-4	New UE identifier for MAC-c/sh multiplexing for DSCH	A	4.2.0	TEI

# TSGRP#15(02) 0162

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Clauses affected:	6.1.7
Other specs	X         Other core specifications         #         TS 25.401 v4.2.0         CR043           TS 25.423 v3.8.0         CR573         TS 25.423 v4.3.0         CR574
affected:	Test specifications O&M Specifications
Other comments:	

### How to create CRs using this form:

I

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# 6.1 UTRAN Identifiers

## 6.1.1 PLMN Identity

A Public Land Mobile Network is uniquely identified as define in [6] sub-clause 12.1.

# 6.1.2 CN Domain Identifier

A CN Domain Edge Node is identified as defined in [6] sub-clause 12.2.

# 6.1.3 RNC Identifier

An RNC node is uniquely identified within UTRAN as defined in [6] sub-clause 12.3.

# 6.1.4 Service Area Identifier

The Service Area Identifier (SAI) is defined in [6] sub-clause 12.4.

# 6.1.5 Cell Identifier

The Cell identifer (C-Id) is used to uniquely identify a cell within an RNS. The Cell-Id together with the identifier of the controlling RNC (CRNC-Id) constitutes the UTRAN Cell Identity (UC-Id) and is used to identify the cell uniquely within UTRAN. UC-Id or C-Id is used to identify a cell in UTRAN Iub and Iur interfaces.

## - UC-Id = RNC-Id + C-Id.

The C-Id is defined by the operator, and set in the RNC via O&M. The C-Id is set in a Node B by its C-RNC.

# 6.1.6 Local Cell Identifier

The Local Cell identifier is used to uniquely identify the set of resources within a Node B required to support a cell (as identified by a C-Id). As a minimum it shall be unique within the Node B, but it is also capable of supporting uniqueness within the UTRAN for management system purposes.

The Local Cell Identifier is used for the initial configuration of a Node B when no C-Id is defined. The Local Cell identifier is defined by the operator, and set in both the Node B and its C-RNC via O&M. The relationship between the Local Cell Identifier and C-Id is set in the C-RNC via O&M.

# 6.1.7 UE Identifiers

Radio Network Temporary Identities (RNTI) are used as UE identifiers within UTRAN and in signalling messages between UE and UTRAN.

Four types of RNTI exist:

- 1) Serving RNC RNTI (s-RNTI);
- 2) Drift RNC RNTI (d-RNTI);
- 3) Cell RNTI (c-RNTI);
- 4) UTRAN RNTI (u-RNTI);

### [FDD - 5) DSCH RNTI (DSCH-RNTI);]

## s-RNTI is used:

- by UE to identify itself to the Serving RNC;

- by SRNC to address the UE;
- by DRNC to identify the UE to Serving RNC.

s-RNTI is allocated for all UEs having a RRC connection, it is allocated by the Serving RNC and it is unique within the Serving RNC. s-RNTI is reallocated always when the Serving RNC for the RRC connection is changed.

### d-RNTI is used:

- by serving RNC to identify the UE to Drift RNC.

NOTE: The d-RNTI is never used on Uu.

d-RNTI is allocated by drift RNC upon drift UE contexts establishment and it shall be unique within the drift RNC. Serving RNC shall know the mapping between s-RNTI and the d-RNTIs allocated in Drift RNCs for the same UE. Drift RNC shall know the s-RNTI and SRNC-ID related to existing d-RNTI within the drift RNC.

#### c-RNTI is used:

- by UE to identify itself to the controlling RNC;
- by controlling RNC to address the UE.

c-RNTI is allocated by controlling RNC upon UE accessing a new cell. C-RNTI shall be unique within the accessed cell. Controlling RNC shall know the d-RNTI associated to the c-RNTI within the same logical RNC (if any).

#### u-RNTI

The u-RNTI is allocated to an UE having a RRC connection and identifies the UE within UTRAN.

u-RNTI is composed of:

- SRNC identity;
- s-RNTI.

#### [FDD - DSCH-RNTI is used:

- by controlling RNC to address the UE on the DSCH.

DSCH-RNTI is allocated by controlling RNC upon UE establishing a DSCH channel. DSCH-RNTI shall be unique within the cell carrying the DSCH. DSCH-RNTI is used as UE identifier in the MAC-c/sh header over DSCH. It is used only in the downlink.]

Each RNC has a unique identifier within the UTRAN part of the PLMN, denoted by RNC identifier (RNC-ID). This identifier is used to route UTRAN interface messages to correct RNC. RNC-ID of the serving RNC together with the s-RNTI is a unique identifier of the UE in the UTRAN part of the PLMN.

## 6.1.7.1 Usage of RNTI

u-RNTI is used as a UE identifier for the first cell access (at cell change) when a RRC connection exists for this UE and for UTRAN originated paging including associated response messages. RNC-ID is used by Controlling RNC to route the received uplink messages towards the Serving RNC.

NOTE: For the initial access a unique core network UE identifier is used.

c-RNTI is used as a UE identifier in all other DCCH/DTCH common channel messages on air interface.

# 6.1.8 Identifiers for dedicated resources within UTRAN

## 6.1.8.1 Radio Network Control Plane identifiers

Each addressable object in each reference point has an application part level identifier. This identifier is allocated autonomously by the entity responsible for initiation of the setup of the object. This application part identifier will be used as a reference to the object that is setup. Both ends of the reference point shall memorise the AP Identifier during the lifetime of the object. Application part identifier can be related to a specific ALCAP identifier and that relationship shall also be memorised by both ends.

Table 1 lists the basic AP level identifiers in each reference point.

Object	Identifier	Abbreviation	Valid for
Radio Access Bearer	Radio Access Bearer ID	RAB-ID	lu
Dedicated Transport	DCH-ID	DCH-ID	lur, lub
channel			
Downlink Shared Channel	DSCH-ID	DSCH-ID	lur, lub
[TDD Uplink Shared	USCH-ID	USCH-ID	lur, lub
Channel]			

### Table 1: Basic AP level identifiers in each reference point

## 6.1.8.2 Transport Network Control Plane identifiers

ALCAP identifier is used only in Transport Network Control plane (ALCAP protocol, if exist) and may be used in User Plane in the actual data transmission using the transport link. ALCAP identifier identifies the transport link according to the naming conventions defined for the transport link type in question. Both ends of the reference point of the ALCAP shall memorise the ALCAP identifier during the lifetime of the transport link. Each ALCAP identifier can be binded to an Application Part identifier.

Table 2 indicates examples of the identifiers used for different transmission link types.

### Table 2: Examples of the identifiers used for different transmission link types

Transmission link type	ALCAP Identifier
AAL2	AAL2 Path ID + CID
GTP over IP	IP address + TEID

## 6.1.8.3 Binding identifier

Binding Identifier (Binding ID) is used to initialise the linkage between ALCAP and Application Part (RANAP, RNSAP, NBAP) identifiers. Binding identifier can be used both in Radio Network Control plane Application Part protocols and in Transport Network Control Plane's ALCAP protocol.

Binding ID binds the Radio and Transport Network Control plane identifiers together. To ensure maximal independence of those two planes, the binding ID should be used only when necessary: Binding ID shall thus be used only in Radio Network Control plane Application Part messages in which a new association between the planes is created and in ALCAP messages creating new transport bearers.

Binding ID for each transport bearer shall be allocated before the setup of that transport bearer.

The Binding ID is sent on one direction using the Application Part protocol and is return in the other direction by the ALCAP protocol.

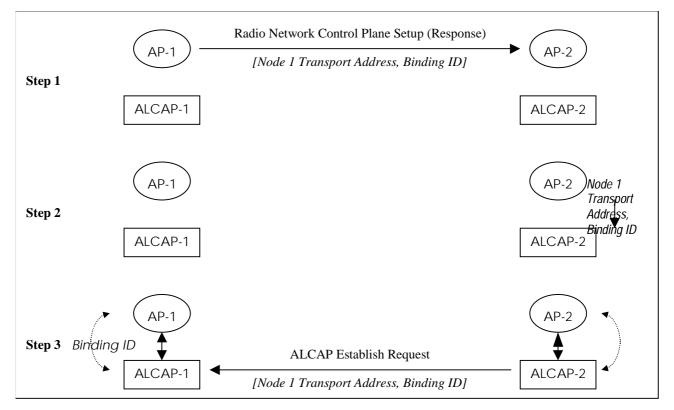
When an Application Part procedure with an allocated Binding ID is applied for modifying an existing Radio Network User Plane connection, the decision to use the Binding ID (and the ALCAP procedures) shall be done by that end of the reference point that decides whether to use the existing transport bearer or to set up a new transport bearer.

The Binding ID shall already be assigned and tied to a radio application procedure when the first ALCAP message is received in a node.

The association between the connection Id in the Application Part protocol (e.g. identifying a RAB) and the corresponding connection Id in the ALCAP protocol (e.g. identifying the AAL2 channel for that RAB) that was created with the help of Binding ID shall be memorised by both peers of each reference point for the lifetime of the corresponding transport bearer.

The Binding ID may be released and re-used as soon as both the Application Part procedure and the ALCAP procedure that used it are completed in both peers of the reference point.

Figure 6a illustrates how application instances of the Radio Network Control Plane and instances of the Transport Network Plane are linked together through the Binding Identifier in the set-up phase.



- Step 1: Application Part AP-1 assigns the Binding Identifier and sends a Radio Network Control Plane Set-up (Response) message (which of the two messages depends on the involved interface lu/lur or lub). The message contains the originating node Transport layer address and the Binding Identifier.
- Step 2: Among reception of the Radio Network Control Plane Set-up message, the peer entity AP-2 requests ALCAP-2 to establish a transport bearer. The Binding Identifier is passed to ALCAP-2.
- Step 3: ALCAP-2 sends an ALCAP Establish Request to the peer entity ALCAP-1. The message contains the Binding Identifier. The Binding Identifier allows correlating the incoming transport connection with the Application Part transaction in step 1.

### Figure 6a: Usage of Binding ID

Table 3 indicates the binding identifier allocating entity in each interface.

#### Table 3: Binding identifier allocating entity in each interface

Reference point	Allocating entity	Application part message including Binding-ID
lu	CN	Request from CN
lur	DRNC	Response to the request from SRNC
lub	Node-B	Response to the request from DRNC

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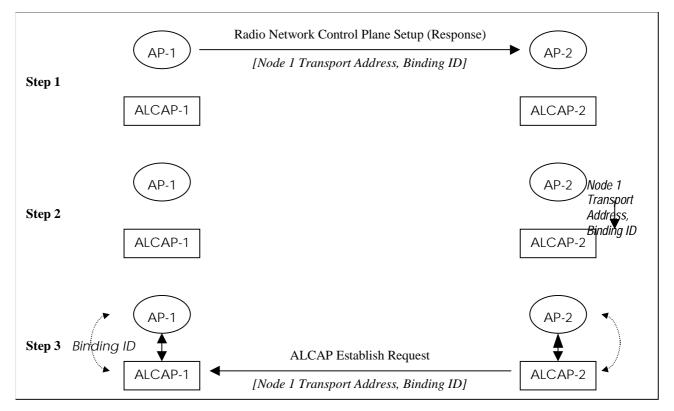
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The Binding ID shall already be assigned and tied to a radio application procedure when the first ALCAP message is received in a node.

The association between the connection Id in the Application Part protocol (e.g. identifying a RAB) and the corresponding connection Id in the ALCAP protocol (e.g. identifying the AAL2 channel for that RAB) that was created with the help of Binding ID shall be memorised by both peers of each reference point for the lifetime of the corresponding transport bearer.

The Binding ID may be released and re-used as soon as both the Application Part procedure and the ALCAP procedure that used it are completed in both peers of the reference point.

Figure 6a illustrates how application instances of the Radio Network Control Plane and instances of the Transport Network Plane are linked together through the Binding Identifier in the set-up phase.



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