

Source: TSG-RAN WG2.
Title: CR to 34.109 (Rel-5)

The following CR is in RP-040337:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Workitem	Doc-2nd-Level
34.109	034	-	Rel-5	Increase of maximum number of loopback entities	F	5.3.0	5.4.0	HSDPA-L23	R2-041813

CR-Form-v7

CHANGE REQUEST

⌘ **34.109 CR 034** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Increase of maximum number of loopback entities		
Source:	⌘ RAN WG2		
Work item code:	⌘ HSDPA-L23	Date:	⌘ 2004-08-17
Category:	⌘ F	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	2 (GSM Phase 2)	
	A (corresponds to a correction in an earlier release)	R96 (Release 1996)	
	B (addition of feature),	R97 (Release 1997)	
	C (functional modification of feature)	R98 (Release 1998)	
	D (editorial modification)	R99 (Release 1999)	
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘ HSDPA MAC-hs test case (34.123-1 clause 7.1.5.2) for testing priority queue handling require 5 loopback entities. The current maximum number of loopback entities in 34.109 is set to 4 based on requirement from R99 radio bearer test cases.		
Summary of change:	⌘ Maximum number of loopback entities increased from 4 to 5.		
Consequences if not approved:	⌘ Restricted testing capability for HSDPA.		

Clauses affected:	⌘ 6.2										
Other specs Affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘ This CR was also presented at T1#23 May 10th-14th, 2004 in T1-040650.										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6 Message definitions and contents

In this clause, only TC protocol messages are described. TC control messages are intended to be sent using the RRC downlink and uplink direct transfer procedures, see TS 25.331 [5], subclause 8.1.9 and subclause 8.1.10.

NOTE 1: A message received with skip indicator different from 0 will be ignored.

NOTE 2: For general definition of Layer 3 message format see TS 24.007 [1], clause 11.

NOTE 3: GSM and 3G test messages uses the same protocol discriminator value ("1111"). Following message type value series are reserved for GSM testing commands as specified by TS 44.014 [13]: 0000xxxx, 0001xxxx and 0010xxxx where x represent 0 or 1. For 3G test commands the message type value series 0100xxxx is reserved.

6.1 Timer values

TT01: Recommended value: 2,5 seconds.

6.2 CLOSE UE TEST LOOP

This message is only sent in the direction SS to UE.

Information Element	Reference	Presence	Format	Length
Protocol discriminator	TS 24.007 [1], subclause 11.2.3.1.1	M	V	½
Skip indicator	TS 24.007 [1], subclause 11.2.3.1.2	M	V	½
Message type		M	V	1
UE test loop mode		M	V	1
UE test loop mode 1 LB setup		C	LV	1- 4 16

where message type is:

8	7	6	5	4	3	2	1	bit no.
0	1	0	0	0	0	0	0	octet 1

where UE test loop mode is:

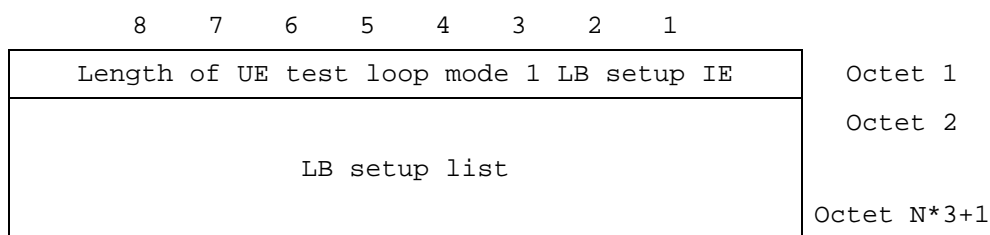
8	7	6	5	4	3	2	1	bit no.
0	0	0	0	0	0	X2	X1	octet 1

X2=0 and X1=0 then UE test loop mode 1 loop back scheme according to 5.3.2.6 shall be performed by the UE (loopback of RLC SDUs or PDCP SDUs).

X2=0 and X1=1 then UE test loop mode 2 loop back scheme according to 5.3.2.7 shall be performed by the UE (loopback of transport block data and CRC bits).

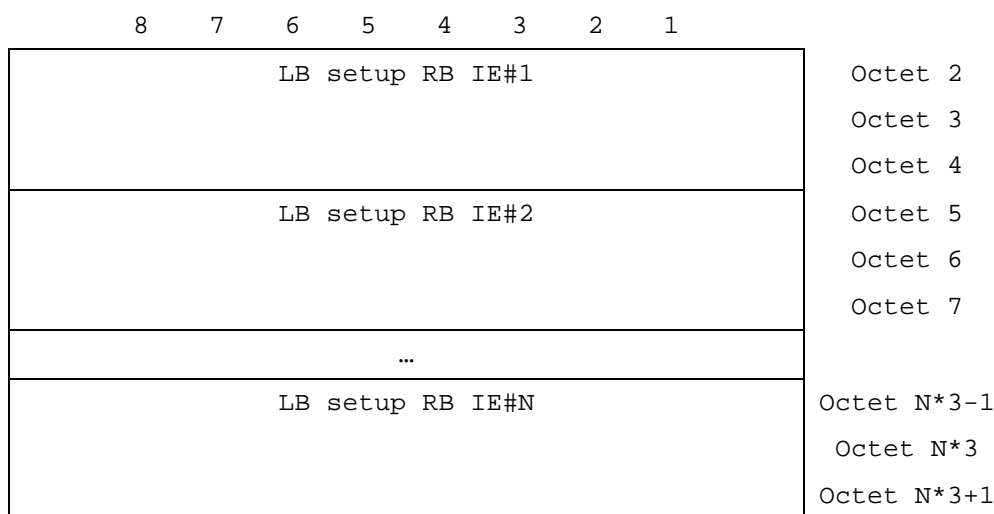
For backward compatibility reason, the bit 3 of octet 1 shall not be used and shall always be set to zero.

where UE test loop mode 1 LB setup is:



N is the number of LB entities in the LB setup list and is less than or equal to 54.

where LB setup list is:



where LB Setup RB IE#k is:

8	7	6	5	4	3	2	1	bit no.
Z15	Z14	Z13	Z12	Z11	Z10	Z9	Z8	octet 1
Z7	Z6	Z5	Z4	Z3	Z2	Z1	Z0	octet 2
Reserved			Q4	Q3	Q2	Q1	Q0	octet 3

Z15..Z0 = Uplink RLC SDU size in bits 0.. 65535 (binary coded, Z15 is most significant bit and Z0 least significant bit), see Note 1.

Q4..Q0 = RB identity number, 5..32 (binary coded, Q4 is most significant bit and Q0 least significant bit), where RB identity identifies the radio bearer, see [5] TS 25.331. The range is limited to 5..32 due to RB0 to RB4 are reserved for signalling radio bearers.

NOTE: The parameter UL RLC SDU size is only applicable for UE test loop mode 1 and for radio bearers not using the PDCP protocol layer, see subclause 5.3.2.6.2. The UE capability for the parameter UL RLC SDU size is stated by the UE manufacturer as an Implementation Conformations Statement (ICS) as defined in TS 34.123-2 [17], subclause A.4.3.1 table A.13. The UE Total RLC AM buffer size according to the UE Radio Access Capabilities defined in TS 25.306 [18] shall not be exceeded.