3GPP TSG-T (Terminals) Meeting #19 Birmingham, UK 12 - 14 March, 2003

TP-030013

3GPP TSG-T WG1#18 San Antonio, US, 10- 14 February 2003

T1-030232

Title: Response LS on proposed RAB configuration used for RLC testing Response to: 1. LS on applicability of the RAB configuration used for RLC testing

(T1-030022/R2-023287, to T1 from RAN2); and

2. Verification of the L1 parameters of the RAB configuration used for RLC testing

(T1-030132/R1-030199, to T1 from RAN1)

Release: R99

Source: T1

To: RAN1, RAN2

Cc: T

Contact Person:

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Attachments: T1-030227 CR to 34.108 R99

T1-030228 CR to 34.108 Rel-4

1. Overall Description:

T1 thanks RAN1 and RAN2 for their liaison statements regarding proposal for RAB configuration for RLC testing. At the T1#18 meeting in San Antonio 10-14 February 2003 T1 discussed the two configuration options proposed by RAN2 in the LS in T1-030022/R2-023287. To minimise the impact on the RLC test cases, which are currently under verification and validation, T1 have decided to adopt configuration#2.

Configuration #2

Configuration for RLC test for 7 bits LI:

The configurations are based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH. However, the RLC PDU size for AM RLC testing has been set to 128, (i.e. the same as for AM SRBs), so that no change on the window size was required in order to fit into 10 kbytes.

Configuration for RLC test for 15 bits LI:

The configurations haven't been changed. They are still based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26). As the window sizes have not been changed, the configuration for RLC-AM (and therefore the corresponding tests) is only applicable to 128 kbps UE class or higher (which have a RLC Buffer size of 50 kbytes at least).

Attached are the R99 and Rel-4 CRs to 34.108 including the changes as proposed by RAN1 and RAN2 for configuration#2. These CRs also includes the update of the rate matching attribute in clause 6.11.3 (to 135 - 175) as proposed by RAN1 in the LS in T1-030132/R1-030199.

2. Actions:

None

3. Date of Next T1 Meetings:

T1#19 12 – 16 May 2003 Seoul, Korea

T1#20 28 July – 1 August 2003 Munich, Germany

3GPP TSG-T1 Meeting #18 San Antonio, US, 10th-14th February 2003

CHANGE REQUEST						
光	34.108 CR CRNum # rev - # Current version: 3.10.0	Ħ				
- 4154.5						

For <u>HELP</u> 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 X Radio Access Network X Core Network					K										
Title:	\mathfrak{H}	CR 1	io 34	4.108 R	99; Upd	ate of de	efaul	t configu	ıration	s to e	enable	testing	of low	end U	Es
Source:	${\mathbb H}$	Erics	ssor	า											
Work item code	:₩	TEI								D	Date:	14/02	2/2003		
Category:	\mathfrak{H}	F								Relea	ase: ೫	R99			
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		F	: (cc	orrection)						2	2	(GSM F	Phase 2	?)	
		1	(C)	orrespon	ds to a c	orrection	in an	earlier re	elease)) F	R96	(Releas	e 1996	5)	
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Reason for change: # The current configurations in 34.108 and 34.123-1 do not allow testing of all UE classes. This contribution proposes a modified configuration to allow testing of UEs with limited capabilities (10 kbyte UE memory and no TC support).

Summary of change: # The following changes are proposed:

- 1. The default RLC window size for SRB2,3,4 is changed from 128 to 32.
- 2. The Common Radio Bearer configurations used for RLC tests is modified:
 - The TFS for the UM tests with 7 bit Length indicators no longer includes more than 1 TB, thus remaining below the UE capability on 'Maximum sum of number of bits of all transport blocks being received at an arbitrary time instant' of the 32kbps UE class (640 bits). In addition the TTI is updated to 40ms in order to align to the existing UL/DL 8/8kbps RAB.

Rel-6

(Release 6)

- The PDU size for AM tests with 7bit Length indicators is changed from 320 to 128. This allows the current RLC window sizes to be used which limits the impact on the extisting L2 test cases.
- The RLC PDU size as well as the RLC window size for testing of 15 bit length indicators are unchanged. This implies that only UEs with >50 kbyte RLC buffer memory can be tested with 15 bit length indicators. If this is unacceptable, the RLC window size could potentially be decreased for RLC tests with 15 bit Lls.
- The L1 parameters are modified since the current values seem incorrect. The values have been confirmed by RAN1 (in LS in T1-030132/R1-

	030199).
Consequences if not approved:	# L2 testing can not be performed on lower UE classes
Clauses affected:	光 6.11 and 9.1.1
Other specs affected:	Y N X Other core specifications
Other comments:	lpha

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 \(\mathcal{H} \) 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.

<Start of modified section>

6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

NOTE: If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL: $\underline{864}$ DL $\underline{864}$ kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.2 $\underline{3a6}$) with the transport channels parameters of the RAB and TFCS defined as followsed:

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	328
	Max data rate, bps	<u>8200</u> 65600
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336(note)
	TF3, bits	3x336(note)
	TF4, bits	4x336(note)
	TTI, ms	20 40
	Coding type	TC CC 1/3
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>1080</u> 4 236
	Uplink: Max number of bits/radio frame before rate matching	<u>270</u> 2118
	RM attribute	<u>135-175</u> 130-170
NOTE:	This TFI is not applied to TFS for RLC test cases.	

TFCS

TFCS size	4
TFCS	(64-8 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	328
	Max data rate, bps	<u>8200</u> 65600
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336 (note)
	TF3, bits	3x336 (note)
	TF4, bits	4x336 (note)
	TTI, ms	20 <u>40</u>
	Coding type	CC 1/3 <mark>TC</mark>
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>1080</u> 4 236
	RM attribute	<u>135-175</u> 130-170
NOTE: T	This TFI is not applied to TFS for RLC test cases.	

TFCS

TFCS size	4
TFCS	(64 8 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.11.2 Unacknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed:

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	1336
	Max data rate, bps	66800
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	Uplink: Max number of bits/radio frame before	<u>20462118</u>
	rate matching	
	RM attribute	130-170

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	1336
	Max data rate, bps	66800
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	RM attribute	130-170

6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

Transport channel parameters for the Uplink RAB

See clause 6.10.2.4.1.24.1. Note that TF2, TF3, and TF4 are not applied to the TFS for RLC tests, so the TFCS is defined as follows.

TFCS

TFCS size	4
TFCS	(64 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

See clause 6.10.2.4.1.25.2. Note that TF2, TF3, and TF4 are not applied to the TFS for RLC tests, so TFCS is defined as follows.

TFCS

TFCS size	4
TECS	(64 kbps RAB, DCCH)=
	\ \(\frac{\tag{TF0, TF0}, \tag{TF1, TF0}, \tag{TF0, TF1}, \tag{TF1, TF1}\)

Transport channel parameters for the Uplink RAB

<u>Higher</u>	RAB/Signalling RB	<u>RAB</u>
<u>layer</u>		
RLC	Logical channel type	<u>DTCH</u>
	RLC mode	A <u>M</u>
	Payload sizes, bit	<u>128</u>
	Max data rate, bps	<u>6400</u>
	UMD PDU header, bit	<u>16</u>
MAC	MAC header, bit	<u>0</u>
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	144
	TFS 0x144	<u>0x144</u>
	<u>1x144</u>	<u>1x144</u>
	TTI, ms	<u>20</u>
	Coding type	<u>CC 1/3</u>
	CRC, bit	<u>16</u>
	Max number of bits/TTI after channel coding	<u>504</u>
	Uplink: Max number of bits/radio frame before	<u>252</u>
	rate matching	
	RM attribute	<u>135-175</u>

TFCS

TFCS size	4
TFCS	(RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

<u>Higher</u>	RAB/Signalling RB	<u>RAB</u>
<u>layer</u>		
RLC	Logical channel type	<u>DTCH</u>
	RLC mode	<u>AM</u>
	Payload sizes, bit	<u>128</u>
	Max data rate, bps	<u>6400</u>
	UMD PDU header, bit	<u>16</u>
MAC	MAC header, bit	<u>0</u>
	MAC multiplexing	<u>N/A</u>
Layer 1	TrCH type	<u>DCH</u>
	TB sizes, bit	<u>144</u>
	<u>TFS</u> <u>0x144</u>	<u>0x144</u>
	<u>1x144</u>	<u>1x144</u>
	TTI, ms	<u>20</u>
	Coding type	<u>CC 1/3</u>
	CRC, bit	<u>16</u>
	Max number of bits/TTI after channel coding	<u>504</u>
	RM attribute	<u>135-175</u>

TFCS

TFCS size	4
TFCS	(RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	Uplink: Max number of bits/radio frame before	<u>2046<mark>2118</mark></u>
	rate matching	
	RM attribute	130-170

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	RM attribute	130-170

<End of modified section>

<Start of next modified section>

9.1.1 Default RRC Message Contents (FDD)

<Skip until first modified default message>

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH)

Message Type Initial UE identity RRC transaction identifier Activation time New U-RNTI New U-RNTI New C-RNTI N	Information Element	Value/remark
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- DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity Not Present 1 Not Present 1 Explicit List - RACH - According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 1 EXPLICATION TO THE SECTION		10
- Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - DU DCH Transport channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity 1 Not Present Not Present 1 Not Present Not Present Not Present (AM DCCH for RRC) Not Present		Not Present
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- UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RB identity Not Present - MAC Present - Explicit List - According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - MAC logical channel info - 13.6 kbps signalling radio bearer) 1 - FACH - Not Present - Not Present - (AM DCCH for RRC) - RB identity - Not Present		RACH
- Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - RB identity - RB identity - Logical channel identity - RB identity - Logical channel identity - RB identity - Logical channel identity - RB identity - Logical channel identity - RB identity - Logical channel identity - RB identity - Logical channel identity - RB identity - Logical channel identity - RB identity - Logical channel identity - RB identity - Logical channel identity - Logical channel identity - RB identity - Logical channel identity - Logical channel identity - RB identity - Logical channel identity - Logical channel identity - RB identity - Logical channel identity - Logical cha		
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- RLC size index According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - RB identity According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 1 FACH Not Present (AM DCCH for RRC) Not Present		
- MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - RB identity - RB identity 13.6 kbps signalling radio bearer) 1 FACH Not Present Not Present (AM DCCH for RRC) Not Present		
- MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - RB identity - RB identity 1 1 1 FACH Not Present Not Present 1 (AM DCCH for RRC) Not Present		
- Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - RB identity - RB identity - RB identity - Not Present (AM DCCH for RRC) Not Present	- MAC logical channel priority	1
- Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Signalling RB information to setup - RB identity 1 (AM DCCH for RRC) Not Present		
- Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity Signalling RB information to setup - RB identity FACH Not Present (AM DCCH for RRC) Not Present		1
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- DL DSCH Transport channel identity - Logical channel identity Signalling RB information to setup - RB identity Not Present (AM DCCH for RRC) Not Present		
- Logical channel identity Signalling RB information to setup - RB identity 1 (AM DCCH for RRC) Not Present		
Signalling RB information to setup - RB identity (AM DCCH for RRC) Not Present		1
- RB identity Not Present		(AM DCCH for RRC)
- CHOICE RLC info type	- CHOICE RLC info type	

Information Element	Value/remark
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	No diagonal
- SDU discard mode - MAX DAT	No discard
- Transmission window size	13 12832
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1 TRUE
- Last transmission PDU poll- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128 <u>32</u>
- Downlink RLC status info	200
- Timer_status_prohibit - Timer_EPC	200 Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	THE THOUGHT
- Information for each multiplexing option	2 RBMuxOptions
 RLC logical channel mapping indicator 	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
Logical channel identity CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
 Downlink transport channel type 	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
 Logical channel identity RLC logical channel mapping indicator 	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
MAC logical channel priority	13.6 kbps signalling radio bearer)
MAC logical channel priority Downlink RLC logical channel info	2
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(AM DOOL for NAC DT High referits)
Signalling RB information to setup - RB identity	(AM DCCH for NAS_DT High priority) Not Present
- RB identity - CHOICE RLC info type	INOUT TESCHI
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	12832
- Timer_RST - Max_RST	500
- Max_K31 - Polling info	
1	

Timer, poll prohibit Timer, poll Poll Poll Poll Poll Poll Poll Poll	Information Element	Value/remark
Timer_poll Poll_PDU Poll SDU Poll SDU Poll SDU Last transmission PDU poll Last transmission PDU poll Last transmission PDU poll TRUE TRUE Poll Vindow Timer poll_periodic CHOICE Downlink RLC made In-sequence delivery Receiving window size Downlink RLC status into Timer_status prohibit Timer_EPC Timer_STATUS periodic RB mapping into Information for each multiplexing option RLC logical channel mapping indicator RB mapping into Information for each multiplexing option RLC logical channel identity Lugical channel identity CHOICE RLC size list Downlink RLC logical channel into Number of RLC logical channel into Number of RLC logical channel into Lugical channel identity Logical channel identit		
Poll_PDU Poll_SDU Last transmission PDU poll Poll_SDU Last transmission PDU poll Poll_Window Poll_Window Timer_poll_periodic C-CHOICE Downlink RLC mode - In-sequence delivery Receiving window size Downlink RLC status info Timer_status_prohibit Timer_EPC Missing PDU indicator Timer_STATUS_periodic RB mapping info Information for each multiplexing option RLC logical channel apping indicator Number of RLC logical channels Uplink transport channel type UL Transport deannel identity Logical channel identity Logical channel identity Denownlink RLC optical channel info Number of RLC logical channel identity Uplink transport channel identity Logical channel mapping indicator Number of RLC logical channel identity Logical channel identity Logical channel identity - UD RECE RLC size list RLC size index MAC logical channel identity - Uplink transport channel identity - Uplink RLC logical channel info - Number of RLC logical channel info -		
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- Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RB identity - RB identity - CHOICE RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Last transmission PDU poll - Poll_Window 3 Explicit List - According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCORDING PSOL 4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCORDING PSOL 4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCORDING PSOL 4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCORDING PSOL 4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCORDING PSOL 4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCORDING PSOL 4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 ACHOCCH for NAS_DT Low priority Not present 1 1 4 AM RLC Not present 15 5 6 AM RLC 200 200 200 201 201 202 203 204 207 207 208 209 2		
- CHOICE RLC size list - RLC size index - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel type - DL DCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RB identity - RRD information to setup - RLC info - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll - Poll_SDU - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Poll_Window Explicit List According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 The According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 The According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCORDING TORAL ACCORDING TABLE ACCORDING TABL		
- RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Poll_PDU - Poll_SDU - Last transmission PDU poll - Poll_Window - MAC logical channel identity - 13.6 kbps signalling radio bearer) 3 According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 ACCOrding to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 3 4 CHOICE LOGICAL CHOICE CALL CHOIC		
- MAC logical channel priority - Downlink RLC logical channels - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Poll_SDU - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Poll_Window 13.6 kbps signalling radio bearer) 3 3 14 15 16 17 16 17 18 18 19 10 10 10 10 10 10 10 10 10		
- MAC logical channel priority - Downlink RLC logical channels - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Not Present - MAD DCCH for NAS_DT Low priority) Not present - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Tolling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_PDU - Last treatnsmission PDU poll - Last treatnsmission PDU poll - Poll_Window 3 1 - TACH Not Present 1 - FACH Not Present Not P	TAZO SIZO ITIGOX	
- Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Rai identity - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Last transmission PDU poll - Last tretransmission PDU poll - Poll_Window - Poll_Window - Poll_Window - TRUE - Poll_Window - Poll_Window - Poll_Window - Poll_Window - Poll_Window - Poll_Window - Poll_PDU - Poll_Window - Poll_PDU - Poll_Window - Poll_Window - Pall_Window - Pall	- MAC logical channel priority	
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- DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RB identity - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_problibt - Timer_poll_DU - Poll_PDU - Last transmission PDU poll - Last tretransmission PDU poll - Poll_Window Not Present Not Prese		
- DL DSCH Transport channel identity - Logical channel identity 3 Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Poll_Window Not Present 3 Not Present 3 (AM DCCH for NAS_DT Low priority) Not present Not present AM RLC No discard - No discard - No discard - 15 - 2832 - 11 - 200 - 11 - 200 - 11 - 11 - 12 - 200 - 11 - 12 - 200 - 11 - 12 - 200 - 13 - 200 - 14 - 15 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17		
- Logical channel identity Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll - Poll_PDU - Poll_PDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window 3 (AM DCCH for NAS_DT Low priority) Not present (AM DCCH for NAS_DT Low priority) Not present 1 4 M RLC - AM RLC -		
Signalling RB information to setup - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Max_RST - Max_RST - Polling info - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Poll_Window (AM DCCH for NAS_DT Low priority) Not present AM RLC AM RLC AM RLC AM RLC -		
- RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window Not present - MR RLC - AM RLC		
- CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - RM RLC - AM RLC		
- CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Last transmission PDU poll - Poll_Window AM RLC No discard 15 12832 - 11 - 200 - 200 Not present - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window AM RLC No discard - No discard - 200 - 15 - 10		·
- Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - SDU - Not discard - No discard - 15 - 2832 - Timer_RST - 1 - 200 - 200 - Not present - Poll_PDU - Last transmission PDU poll - TRUE - TRUE - Poll_Window - No discard - No discard - No discard - No discard - TRUE - TRUE - TRUE - TRUE - TRUE - Poll_Window	- RLC info	
- SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - No discard - 15 - 2832 - 10 - 10 - 200 - 200 - Not present - Poll_SDU - Last transmission PDU poll - TRUE - Poll_Window - No discard - 15 - 15 - 15 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		AM RLC
- MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - TRUE - Poll_		No disposed
- Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - TRUE - Poll_Window - Poll_Window - TRUE - Poll_Window - TRUE - Poll_Window - TRUE - P		
- Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window 500 - 200 - Not present - TRUE - TRUE - Poll_Window 99	=	
- Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window 1 1 1 1 200 Not present 1 TRUE TRUE TRUE Poll_Window 99		
- Polling info - Timer_poll_prohibit - Timer_poll - Timer_poll - Poll_PDU - Poll_SDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window 99		
- Timer_poll 200 - Poll_PDU Not present - Poll_SDU 1 - Last transmission PDU poll TRUE - Last retransmission PDU poll TRUE - Poll_Window 99	- Polling info	
- Poll_PDU Not present - Poll_SDU 1 - Last transmission PDU poll TRUE - Last retransmission PDU poll TRUE - Poll_Window 99		
- Poll_SDU 1 - Last transmission PDU poll TRUE - Last retransmission PDU poll TRUE - Poll_Window 99		
- Last transmission PDU poll TRUE - Last retransmission PDU poll TRUE - Poll_Window 99		
- Last retransmission PDU poll TRUE - Poll_Window 99		
- Poll_Window 99		
1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode AM RLC		AM RLC

Information Element	Value/remark
	TRUE
- In-sequence delivery	
- Receiving window size	128 <u>32</u>
- Downlink RLC status info	000
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
 Information for each multiplexing option 	2 RBMuxOptions
 RLC logical channel mapping indicator 	Not Present
- Number of RLC logical channels	1
 Uplink transport channel type 	DCH
 UL Transport channel identity 	5
 Logical channel identity 	4
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
 Downlink transport channel type 	DCH
- DL DCH Transport channel identity	10
 DL DSCH Transport channel identity 	Not Present
 Logical channel identity 	4
- RLC logical channel mapping indicator	Not Present
 Number of RLC logical channels 	1
 Uplink transport channel type 	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Addition
- TFCS complete reconfigure	
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to TS34.108
	clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio
	bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled
	Gain Factors)
- Gain factor ßc	11 (below 64 kbps)
	9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain Factors)
- Gain factor ßd	15
	(Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	5
·	·

Information Element Value/remark - TFS Dedicated transport channels - CHOICE Transport channel type - Dynamic Transport format information - RLC size According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) - Number of TBs and TTI lists (This IE is repeated for TFI number) - Transmission Time Interval According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - Number of Transport blocks According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Type of channel coding kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Coding Rate kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Rate matching attribute kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - CRC size kbps signalling radio bearer) DL Transport channel information common for all transport channel - SCCPCH TFCS Not Present - CHOICE mode **FDD** - CHOICE DL parameters Same as UL Added or Reconfigured DL TrCH information DCH - Downlink transport channel type - DL Transport channel identity 10 - CHOICE DL parameters Same as UL - Uplink transport channel type DCH - UL TrCH Identity - DCH quality target - BLER Quality value -2.0 Frequency info Not Present Maximum allowed UL TX power Not Present Uplink DPCH info - Uplink DPCH power control info - DPCCH power offset -6dB - PC Preamble 1 frame - SRB delay 7 frames - Power Control Algorithm Algorithm1 - TPC step size 1dB - Scrambling code type Long - Scrambling code number 0 (0 to 16777215) - Number of DPDCH Not Present(1) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Spreading factor kbps signalling radio bearer) - TFCI existence According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) - Number of FBI bit According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - Puncturing Limit According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication Initialise - CFN-targetSFN frame offset Not Present

- Fixed or Flexible Position

- Power offset P Pilot-DPDCH

- Downlink DPCH power control information

- DL rate matching restriction information

- CHOICE mode

- DPC mode

- Spreading factor

FDD

0 (single)

Not Present

kbps signalling radio bearer)

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6

Information Element	Value/remark
	kbps signalling radio bearer)
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- CHOICE SF	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Code number	0
- Scrambling code change	Not Present
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in
	received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present (Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC state indicator	CELL_FACH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not present
- SDU discard mode	Not present UM RLC
- CHOICE Downlink RLC mode	UWI RLC
- RB mapping info	2 RBMuxOptions
Information for each multiplexing option RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH

Information Element	Value/remark
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
 Downlink transport channel type 	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	No Discoud
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	12832 500
- Timer_RST - Max_RST	1
- Polling info	
- Toming into - Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128 32
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info - Information for each multiplexing option	2 PRMuyOntions
- RLC logical channel mapping indicator	2 RBMuxOptions Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2

Information Element	Value/remark
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
THE SIZE INSERT	13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
	Not Present
- DL DCH Transport channel identity	
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128 32
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll - Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
 Receiving window size 	128 32
 Downlink RLC status info 	
 Timer_status_prohibit 	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	"
	1
- Number of downlink RLC logical channels	1 DCH
- Downlink transport channel type	
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL DCH Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- Logical Granner Identity	∨

Information Element	Value/remark
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size - Timer_RST	<mark>12832</mark> 500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
Last retransmission PDU poll Poll_Windows	TRUE
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128 32
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic - RB mapping info	Not Present
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured 4
- MAC logical channel priority - Downlink RLC logical channel info	4
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
 Number of uplink RLC logical channels Uplink transport channel type 	1 RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
MAQ la stant 1	13.6 kbps signalling radio bearer)
- MAC logical channel priority	4
Downlink RLC logical channel info Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	Not Decoret
- PRACH TFCS	Not Present FDD
- CHOICE Mode - TFC subset	Not Present
- UL DCH TFCS	NOTE 1636111
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Addition
- TFCS complete reconfigure	

Information Element	Value/remark
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps
- CTFC	signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- Power offset information	, ,
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled Gain Factors)
- Gain factor ßc	11 (below 64 kbps) 9 (higher than 64 kbps)
Onin factor 0 d	(Not Present if the above is set to Computed Gain Factors)
- Gain factor ßd	15 (Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0 '
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "CELL FACH", need is MP to align with ASN.1"
- Added or Reconfigured UL TrCH information	CEEE_I / COTT ; FICOU IC WIII TO dilight Willt / COTT.
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Delicated transport channels
- Dynamic Transport format information	'
- RLC Size	Value 16 results in an RLC size of 144 bits;
	OctetModeType1 ((8*sizeType1)+16).
- Number of TBs and TTI List	List with single entry
- Transmission Time Interval	Not Present
- Number of Transport blocks	0
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	40 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	160
- CRC size	16
DL Transport channel information common for all transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured DL TrCH information	_
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
 Uplink Transport channel type 	DCH
- UL TrCH identity	5
- DCH quality target	Not Present
Frequency info	Not present
Maximum allowed UL TX power	Not present
CHOICE channel requirement	Not Present
Downlink information common for all radio links	Not Present
Downlink information for each radio link list	Not present

3GPP TSG-T1 Meeting #18 San Antonio, US, 10th-14th February 2003

		CHANGE	REQ	UE	ST			CR-Form-v7
Ж	34.108 CR	CRNum	жrev	-	¥	Current version:	4.5.0	¥
F U	JELD on voice this forms							

For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the \mathbb{H} symbols.

Proposed change affects: UICC apps# ME X Radio Access Network X Core Network							
Title:	H	CR to 3	34.108 R4; Update of	default	configurations	to enable te	sting of low end UEs
Source:	¥	Ericsso	n				
Work item code.	: ₩	TEI				Date: ₩	14/02/2003
Category:	¥	Α				Release: Ж	Pol-4
Category.	Ф.	Use <u>one</u> F (c	of the following categori correction) corresponds to a correct			Use <u>one</u> of 2	the following releases: (GSM Phase 2) (Release 1996)
		B (a	addition of feature), iunctional modification o		,	R97 R98	(Release 1997) (Release 1998)
		Detailed of	editorial modification) explanations of the above in 3GPP TR 21,900.	ve cateç	gories can	R99 Rel-4 Rel-5	(Release 1999) (Release 4) (Release 5)

Reason for change: # The current configurations in 34.108 and 34.123-1 do not allow testing of all UE classes. This contribution proposes a modified configuration to allow testing of UEs with limited capabilities (10 kbyte UE memory and no TC support).

Summary of change: # The following changes are proposed:

- 1. The default RLC window size for SRB 2,3,4 is changed from 128 to 32.
- 2. The Common Radio Bearer configurations used for RLC tests is modified:
 - The TFS for the UM tests with 7 bit Length indicators no longer includes more than 1 TB, thus remaining below the UE capability on 'Maximum sum of number of bits of all transport blocks being received at an arbitrary time instant' of the 32kbps UE class (640 bits). In addition the TTI is updated to 40ms in order to align to the existing UL/DL 8/8kbps RAB.

Rel-6

(Release 6)

- The PDU size for AM tests with 7bit Length indicators is changed from 320 to 128. This allows the current RLC window sizes to be used which limits the impact on the extisting L2 test cases.
- The RLC PDU size as well as the RLC window size for testing of 15 bit length indicators are unchanged. This implies that only UEs with >50 kbyte RLC buffer memory can be tested with 15 bit length indicators. If this is unacceptable, the RLC window size could potentially be decreased for RLC tests with 15 bit Lls.
- The L1 parameters are modified since the current values seem incorrect. The values have been confirmed by RAN1 (in LS in T1-030132/R1-

	030199).
Consequences if not approved:	# L2 testing can not be performed on lower UE classes
Clauses affected:	光 6.11 and 9.1.1
Other specs affected:	Y N X Other core specifications
Other comments:	lpha

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 \(\mathcal{H} \) 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.

<Start of modified section>

6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL: $\underline{864}$ DL $\underline{864}$ kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.2 $\underline{3a6}$) with the transport channels parameters of the RAB and TFCS defined as followsed:

Transport channel parameters for the Uplink RAB

Higher layer		RAB/Signalling RB	RAB		
RLC	Logical cha	nnel type	DTCH		
	RLC mode		UM		
	Payload siz	es, bit	328		
	Max data ra	ate, bps	<u>8200<mark>65600</mark></u>		
	UMD PDU I	header, bit	8		
MAC	MAC heade	er, bit	0		
	MAC multip	lexing	N/A		
Layer 1	TrCH type		DCH		
	TB sizes, bit		336		
	TFS	TF0, bits	0x336		
		TF1, bits	1x336		
	TTI, ms		20 40		
	Coding type	e	TC CC 1/3		
	CRC, bit		16		
	Max number	er of bits/TTI after channel coding	4236 <u>1080</u>		
		number of bits/radio frame before	2118 270		
	rate matching				
	RM attribute	_	<u>135-175</u> 130-170		
NOTE: This	NOTE: This TFI is not applied to TFS for RLC test cases.				

TFCS

TFCS size	4
TFCS	(<u>64-8</u> kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Higher layer	RAB/Signalling RB	RAB		
RLC	Logical channel type	DTCH		
	RLC mode	UM		
	Payload sizes, bit	328		
	Max data rate, bps	8200 <mark>65600</mark>		
	UMD PDU header, bit	8		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A		
Layer 1	TrCH type	DCH		
	TB sizes, bit	336		
	TFS TF0, bits	0x336		
	TF1, bits	1x336		
	TTI, ms	20 40		
	Coding type	TCCC 1/3		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	<u>1080</u> 4 236		
	RM attribute	<u>135-175</u> 130-170		
NOTE: 7	TE: This TFI is not applied to TFS for RLC test cases.			

TFCS

TFCS size	4
TFCS	(64-8 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.11.2 Unacknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed:

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	1336
	Max data rate, bps	66800
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092 <mark>4236</mark>
	Uplink: Max number of bits/radio frame before	2046 2118
	rate matching	
	RM attribute	130-170

Higher layer	RAB/Signalling RB	RAB		
RLC	Logical channel type	DTCH		
	RLC mode	UM		
	Payload sizes, bit	1336		
	Max data rate, bps	66800		
	UMD PDU header, bit	8		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A		
Layer 1	TrCH type	DCH		
	TB sizes, bit	1344		
	TFS TF0, bits	0x1344		
	TF1, bits	1x1344		
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236		
	RM attribute	130-170		

6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

Transport channel parameters for the Uplink RAB

See clause 6.10.2.4.1.24.1. Note that TF2, TF3, and TF4 are not applied to the TFS for RLC tests, so the TFCS is defined as follows.

TFCS

TFCS size	4
TFCS	(64 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Transport channel parameters for the Downlink RAB

See clause 6.10.2.4.1.25.2. Note that TF2, TF3, and TF4 are not applied to the TFS for RLC tests, so TFCS is defined as follows.

TFCS

TFCS size	4
TFCS	(64 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Transport channel parameters for the Uplink RAB

<u>Higher</u>	RAB/Signalling RB	<u>RAB</u>
<u>layer</u> RLC	Logical channel type	DTCH
KLC	RLC mode	AM
	Payload sizes, bit	128
	Max data rate, bps	6400
	UMD PDU header, bit	<u>16</u>
MAC	MAC header, bit	0
	MAC multiplexing	<u>N/A</u>
Layer 1	TrCH type	<u>DCH</u>
	TB sizes, bit	<u>144</u>
	<u>TFS</u> <u>0x144</u>	<u>0x144</u>
	<u>1x144</u>	<u>1x144</u>
	TTI, ms	<u>20</u>
	Coding type	<u>CC 1/3</u>
	CRC, bit	<u>16</u>
	Max number of bits/TTI after channel coding	<u>504</u>
		<u>252</u>
		135-175
	Uplink: Max number of bits/radio frame before rate matching RM attribute	<u>252</u> <u>135-175</u>

TFCS

TFCS size	<u>4</u>
TFCS	(RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Transport channel parameters for the Downlink RAB

<u>Higher</u>	RAB/Signalling RB	<u>RAB</u>
<u>layer</u>		
<u>RLC</u>	Logical channel type	<u>DTCH</u>
	RLC mode	<u>AM</u>
	Payload sizes, bit	<u>128</u>
	Max data rate, bps	<u>6400</u>
	UMD PDU header, bit	<u>16</u>
MAC	MAC header, bit	<u>0</u>
	MAC multiplexing	<u>N/A</u>
Layer 1	TrCH type	<u>DCH</u>
	TB sizes, bit	<u>144</u>
	<u>TFS</u> <u>0x144</u>	<u>0x144</u>
	<u>1x144</u>	<u>1x144</u>
	TTI, ms	<u>20</u>
	Coding type	<u>CC 1/3</u>
	CRC, bit	<u>16</u>
	Max number of bits/TTI after channel coding	<u>504</u>
	RM attribute	<u>135-175</u>

TFCS

TFCS size	4
TFCS	(RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092 <mark>4236</mark>
	Uplink: Max number of bits/radio frame before	2046 <mark>2118</mark>
	rate matching	
	RM attribute	130-170

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	RM attribute	130-170

<End of modified section>

<Start of next modified section>

9.1.1 Default RRC Message Contents (FDD)

<Skip until first modified default message>

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH)

Information Element	Value/remark
Message Type	value/remark
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	TOUE
- UE radio access FDD capability update	TRUE
requirement	FALSE
- UE radio access TDD capability update requirement	FALSE
- System specific capability update requirement list	Gsm
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	THOU TOUGHT
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
 Information for each multiplexing option 	2 RBMuxOptions
 RLC logical channel mapping indicator 	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	
- CHOICE RLC size list	Configured
- MAC logical channel priority	
Downlink RLC logical channel info Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	[1
- Downlink RLC logical channel info	
- Number of RLC logical channels	
- Downlink transport channel type	FACH Not Present
- DL DCH Transport channel identity - DL DSCH Transport channel identity	Not Present Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	10011
3.1010E 11E0 IIII0 13P0	ı

Information Element	Value/remark
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	No dispord
- SDU discard mode - MAX_DAT	No discard
- Transmission window size	128 32
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll - Poll_PDU	200 Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC TRUE
- In-sequence delivery - Receiving window size	12832
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info - Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity - CHOICE RLC size list	Configure
- MAC logical channel priority	Configure
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	Not Brosser
 DL DSCH Transport channel identity Logical channel identity 	Not Present 2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity - CHOICE RLC size list	2 Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1 FACH
 Downlink transport channel type DL DCH Transport channel identity 	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not Present
- CHOICE RLC info type - RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size - Timer_RST	128 32 500
- Timer_RST - Max_RST	1
- Polling info	i e
· · · · · · · · · · · · · · · · · · ·	

Information Flores	V-IIn-mII.
Information Element	Value/remark
- Timer_poll_prohibit	200
- Timer_poll	200 Not present
- Poll_PDU - Poll_SDU	Not present
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128 32
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	0.0004
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
Number of RLC logical channels Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
 Logical channel identity 	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
Logical channel identity CHOICE RLC size list	Separate Lies
- RLC size index	Explicit List According to TS34.108 clause 6.10.2.4.1.3 (standalone
- NEO SIZE ITIOEX	13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info - CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	AIVI NEC
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128 32
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window - Timer_poll_periodic	99 Not Present
- Timer_poii_periodic - CHOICE Downlink RLC mode	AM RLC
- OHOIGE DOWNIIIK RECTIONS	INIT INLO

Information Element	Value/remark
- In-sequence delivery	TRUE
- Receiving window size	128 32
- Downlink RLC status info	12002
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not i resent
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels - PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Nor Present
- UL DCH TFCS	NOT FIGSEIR
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Addition
- TFCS complete reconfigure	
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to TS 34.108
	clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio
	bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Signalled
	Gain Factors)
- Gain factor ßc	11 (below 64 kbps)
	9 (higher than 64 kbps)
Cain factor ad	(Not Present if the above is set to Computed Gain Factors)
- Gain factor ßd	(Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	(Not Present if the above is set to Computed Gain Factors)
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information	1100111
- Uplink transport channel type	DCH
- UL Transport channel identity	5
	ı

Information Element Value/remark - TFS Dedicated transport channels - CHOICE Transport channel type - Dynamic Transport format information - RLC size According to TS 34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - Number of TBs and TTI lists (This IE is repeated for TFI number) - Transmission Time Interval According to TS 34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS 34.108 clause 6.10.2.4.1.3 (standalone - Number of Transport blocks

- Number of Transport blocks

- CHOICE Logical channel list

- Semi-static Transport Format information

- Transmission time interval

- Type of channel coding

- Coding Rate

- Rate matching attribute

- CRC size

DL Transport channel information common for all transport channel

- SCCPCH TFCS

- CHOICE mode

- CHOICE DL parameters

Added or Reconfigured DL TrCH information

- Downlink transport channel type

- DL Transport channel identity

- CHOICE DL parameters

- Uplink transport channel type

- UL TrCH Identity

- DCH quality target

- BLER Quality value

Frequency info

Maximum allowed UL TX power

Uplink DPCH info

- Uplink DPCH power control info

- DPCCH power offset

- PC Preamble

- SRB delay

- Power Control Algorithm

- TPC step size

- Scrambling code type

- Scrambling code number

- Number of DPDCH

- Spreading factor

- TFCI existence

- Number of FBI bit

- Puncturing Limit

Downlink information common for all radio links

- Downlink DPCH info common for all RL

- Timing Indication

- CFN-targetSFN frame offset

- CHOICE mode

- Downlink DPCH power control information

- DPC mode

- Power offset P Pilot-DPDCH

- DL rate matching restriction information

- Spreading factor

- Fixed or Flexible Position

All
According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6

13.6 kbps signalling radio bearer)

kbps signalling radio bearer)
According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6)

kbps signalling radio bearer)
According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)

Not Present

Same as UL

DCH 10

Same as UL

DCH

-2.0

Not Present

Not Present

-6dB 1 frame

7 frames

Algorithm1

1dB

Long

0 (0 to 16777215)

Not Present(1)

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bears)

kbps signalling radio bearer)
According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6

kbps signalling radio bearer)

Initialise

Not Present

FDD

0 (single)

Not Present

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)

According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6

Information Element	Value/remark
	kbps signalling radio bearer)
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- CHOICE SF	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
 Downlink DPCH info for each RL 	
 Primary CPICH usage for channel estimation 	Primary CPICH may be used
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Code number	0
- Scrambling code change	Not Present
- TPC combination index	0
- SSDT Cell Identity	Not Present
 Closed loop timing adjustment mode 	Not Present
- SCCPCH information for FACH	Not Present

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in
·	received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present (Now)
New U-RNTI	, ,
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC state indicator	CELL_FACH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not present
- SDU discard mode	Not present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH

Information Element	Value/remark
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
 RLC logical channel mapping indicator Number of uplink RLC logical channels 	Not Present
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
MAQ1 : 1 1 : 1	13.6 kbps signalling radio bearer)
- MAC logical channel priority - Downlink RLC logical channel info	1
Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
 DL DSCH Transport channel identity 	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity - CHOICE RLC info type	Not Present RLC info
- CHOICE RLC lillo type - CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	AWINEO
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128 <u>32</u>
- Timer_RST	500
- Max_RST	1
Polling infoTimer_poll_prohibit	200
- Timer_poll_ - Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99 Not Brooms
- Timer_poll_periodic - CHOICE Downlink RLC mode	Not Present AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128 32
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator- Timer_STATUS_periodic	TRUE Not Present
- RB mapping info	Not Fresent
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
 Number of uplink RLC logical channels 	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
Logical channel identity CHOICE RLC size list	2 Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
Logical channel identity RLC logical channel mapping indicator	2 Not Present
- RLC logical channel mapping indicator - Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2

Information Element	Value/remark
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	AWINEO
- SDU discard mode	No Discard
- MAX DAT	15
- Transmission window size	13 1 28 32
	500
- Timer_RST - Max_RST	1
- Max_K51 - Polling info	['
- Folling into - Timer_poll_prohibit	200
	200
- Timer_poll - Poll_PDU	Not Present
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128 32
- Downlink RLC status info	000
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	O DDM: Ortions
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL DCH Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
 Downlink transport channel type 	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3

Information Flowant	Valuatromorte
Information Element	Value/remark (AM DCCH for NAS_DT Low priority)
Signalling RB information to setup	Not Present
- RB identity - CHOICE RLC info type	RLC info
- CHOICE VIIII type - CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	AWINEC
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128 32
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128 32
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5 4
 Logical channel identity CHOICE RLC size list 	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	7
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
 Number of uplink RLC logical channels 	1
- Uplink transport channel type	RACH
 UL Transport channel identity 	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	THE TOTAL PROPERTY.
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Addition
- TFCS complete reconfigure	
	'

Information Floment	Valualramark
Information Element - CHOICE CTFC Size	Value/remark 2bit CTFC
- CHOICE CIFC Size - CTFC information	This IE is repeated for TFC numbers according to
- CTPC Information	TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps
	signalling radio bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone
- 011 0	13.6 kbps signalling radio bearer)
- Power offset information	13.0 Kbp3 Signalling radio bearer)
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled
OTTOTOL Gain't dotoro	Gain Factors)
- Gain factor ßc	11 (below 64 kbps)
Can racior los	9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain
	Factors)
- Gain factor ßd	15
	(Not Present if the above is set to Computed Gain
	Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required
	when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured UL TrCH information	_ , ,
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Delicated transport channels
 Dynamic Transport format information 	
- RLC Size	Value 16 results in an RLC size of 144 bits;
	OctetModeType1 ((8*sizeType1)+16).
 Number of TBs and TTI List 	List with single entry
- Transmission Time Interval	Not Present
- Number of Transport blocks	0
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	40
- Transmission time interval	40 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	160
- CRC size DL Transport channel information common for all	16
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE Mode - CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required
Added of Accomingated From Mornation list	when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured DL TrCH information	,
- Downlink transport channel type	DCH
- DL Transport channel identity	10
	Same as UL
	DCH
- UL TrCH identity	5
	Not Present
Frequency info	Not present
Maximum allowed UL TX power	Not present
CHOICE channel requirement	Not Present
Downlink information common for all radio links	Not Present
Downlink information for each radio link list	Not present
- CHOICE DL parameters - Uplink Transport channel type - UL TrCH identity - DCH quality target Frequency info Maximum allowed UL TX power CHOICE channel requirement Downlink information common for all radio links	Same as UL DCH 5 Not Present

<End of modified section>