TSG-RAN Meeting #6 *TSGRP#6(99)655*
Nice, France, 13 – 15 December 1999

Title: **Agreed CRs of category "C" (Modification) and "F" (Correction) to TS 25.331 v"Intermediate", 2nd set**

Source: **TSG-RAN WG2**

Agenda item: **5.2.3**

Doc-1st-	Status-	Spec	CR	Rev	Subject	Cat	Versio	Versio
R2-99j91	agreed	25.331	085	1	RRC Connection Establishment	C	interm	3.1.0
R2-99j03	agreed	25.331	097		Selection of SCCPCH	C	interm	3.1.0
R2-99j89	agreed	25.331	098	1	RRC Initialisation Information	C	interm	3.1.0
R2-99k32	agreed	25.331	102	1	RRC Connection Re-establishment	C	interm	3.1.0
R2-99k40	agreed	25.331	109	1	TX Diversity Mode for Dedicated	C	interm	3.1.0
R2-99L01	agreed	25.331	116	1	TBS Identification in TFS	C	interm	3.1.0

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Document (R2-99j91)
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or for SMG, use the format P-99-xxx

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25.331	CR	085r1	Current Version:	Intermediate

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-RAN#6	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*

(U)SIM		ME	X	UTRAN / Radio	X	Core Network	

Source: TSG-RAN WG2 **Date:** 29 Nov 1999

Subject: RRC Connection Establishment parameters

Work item:

Category: *(only one category shall be marked with an X)*

F	Correction	
A	Corresponds to a correction in an earlier release	
B	Addition of feature	
C	Functional modification of feature	X
D	Editorial modification	

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	X
Release 00	

Reason for change:

1. The IE “Initial UE capability” sent in the RRC CONNECTION REQUEST message is currently marked as FFS. It is proposed to remove the FFS and a set of parameters is proposed to be included in the "Initial UE capability". It is also proposed to change this IE from "optional" to "mandatory".

Clauses affected: 8.1.3.2, 10.1.4.6, 10.1.6.4.2, 10.2.3.12

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

8.1.3.2 Initiation

The non-access stratum in the UE may request the establishment of at most one RRC connection per UE.

The UE shall transmit an RRC CONNECTION REQUEST message on the uplink CCCH, reset counter V300, and start timer T300.

The UE shall set the IE "Establishment cause" according to indications from the non-access stratum or according to the paging cause received from the PAGING TYPE 1 message.

The UE shall set the IE "Initial UE identity" according to subclause 8.5.1

The UE shall indicate its capability in the IE "Initial UE capability". ~~*[Note: Currently this IE is optional. In that case the condition for including the IE needs to be specified.]*~~

10.1.4.6 RRC CONNECTION REQUEST

RRC Connection Request is the first message transmitted by the UE when setting up an RRC Connection to the network.

RLC-SAP: TM

Logical channel: CCCH

Direction: UE → UTRAN

Information Element	Presence	Range	IE type and reference	Semantics description
Message Type	M			
UE information elements				
Initial UE identity	M			
Establishment cause	M			
Initial UE capability	MO			Necessity is FFS
Measurement information elements				
Measurement information		1 to <MeasRep Count>		Send Measurement information for each measurement report in the message
Measurement identity number	M			Refers to system information. Note 1
Measured results	M			

Note 1: The necessity and usage of Measurement identity number in this message is FFS.

Range Bound	Explanation
MeasRepCoun	Number of measurement reports in the message

10.2.3.12 Initial UE capability

This

is the UE capability information given in the RRC connection request message. The exact type of information is FFS.

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
Initial UE Capability Extension IndicationSupport for Transport CH	OM		Boolean FALSE	Indicates which transport channels are supported A value of “False” indicates that the Initial UE capability is interpreted according to “Release 99 (first release)”. If the value is set to "True", the contents defined here do not apply and a new definition is given in a future release is added to this information element..
Capability extension info	C-Extension			Note 1
Maximum number of AM entities	M		Enumerated (2, 3, 4 or more, 8, 16, 32)	If the maximum number of AM entities is three, only two of these entities shall be used for signalling. If the maximum number is four, three entities may be used. This IE needs to be defined as extensible for future releases. Simultaneous AM RLC entities supported by the UE. If N=1 and reason for setup is 'packet' call, the RNC should not allocate both available AM RLCs to signalling radio bearers.
Maximum number of simultaneous transport channels in downlinkDownlink DCH capability	M		Enumerated (4, 8, 16, 32)Boolean	This IE refers to the UE capability Maximum number of Ssimultaneous transport channels supported in downlink. This parameter indicates whether UE supports only FACH (falseN=2) or also DCHs (true).
Maximum number of simultaneous transport channels in uplinkUplink DCH capability	M		Enumerated (2, 4, 8, 16, 32)Boolean	This IE refers to the UE capability Maximum number of Ssimultaneous transport channels supported in uplink. This parameter indicates whether UE supports only RACH (falsevalue 2) or also DCHs (true).

Note 1: This information element may be defined in later releases.

Condition	**Explanation**
C-Extension	This IE is included only when Signalling link type extension indicator is TRUE.

10.1.6.4.2 Master Information Block

Area scope: Cell

UE mode: Idle mode and connected mode

Information Element	Presence	Multi	IE type and reference	Semantics description
Other information elements				
Value tag	M			
Network capability extension indication				A value of “False” indicates that the Initial UE capability is interpreted according to “Release 99 (first release)”. If the value is set to "True", a new definition given in a future release is added to this information element.
Capability Extension Info	C-Ind			Note 1
References to other system information blocks		1 .. <maxSysInfoBlockcount>		
>Scheduling information	M			
CN information elements				
CN Type	M			
PLMN Identity	M			

Note 1: This information element may be defined in later releases.

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Document* *(R2-99j03)
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25.331	**CR**	**097**	Current Version:	Intermediate

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-RAN#6	For approval	X	strategic		*(for SMG use only)*
list expected approval meeting # here ↑		for information		Non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from:* ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [X] Core Network [ ]

Source: TSG-RAN WG2 **Date:** 1999-11-29

Subject: **Selection of SCCPCH**

Work item:

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature	X		Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:
(1) Add "*SELECTION INDICATOR*" to each "*SCCPCH info*". The UE select SCCPCH from the broadcasted SCCPCHs on BCH which are set to " *SELECTION INDICATOR*"="ON" based on parameter which UE and NW have.
(2) When the UE is in idle mode, "*Initial UE Identity*" is used for the basis for selection.
(3) When the UE is in connected mode, "*old U-RNTI*" is used for the basis for selection.

Clauses affected: 8.5.7.6.3, 10.2.6.5

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

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***** Next modified section *****

8.5.7.6.3 Secondary CCPCH info

~~If the IE "Secondary CCPCH info" is included and the IE "PICH info" is not included, the UE shall start to receive that Secondary CCPCH in the downlink.~~

If the IE "Secondary CCPCH info" is indicated by a dedicated message, the UE shall start to receive that Secondary CCPCH in the downlink. If the IE "Secondary CCPCH info" is not indicated by a dedicated message, the UE selects a SCCPCH from the broadcasted SCCPCHs on BCH which are set to " Selection indicator"="On" based on "Initial UE identity" in idle mode or "old U-RNTI" in connected mode and the UE shall start to receive that Secondary CCPCH in the downlink.

The UE selects one SCCPCH based on the following algorithm.

- Selected SCCPCH = (Initial UE Identity) mod (listed SCCPCHs with "Selection Indicator"="on") (idle mode)
- Selected SCCPCH = (old U-RNTI) mod (listed SCCPCHs with "Selection Indicator"="on") (connected mode)

***** Next modified section *****

10.2.6.5 Secondary CCPCH info

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
Selection Indicator	C-BCCH		Enumerated (On, Off)	
CHOICE *mode*				
>FDD				
>>Secondary scrambling code	O		Integer (0..14)	
>>STTD indicator	O			
>>Spreading factor	M		Enumerated(4, 16, 32, 64, 128, 256)	
>>Code number	M		Integer(0..maxCodeNum)	
>>Pilot symbol existence	M		Boolean	
>>TFCI existence	M		Boolean	
>>Fixed or Flexible Position	M		Enumerated (Fixed, Flexible)	
>>Timing Offset	O			Time difference between PCCPCH
>TDD				
>>Channelization code	M			
>>Time slot	M			Timeslot of the Secondary CCPCH
>>Midamble type	O			Long or short midamble for each time slot
>>Midamble shift	M			Midamble shift of Secondary CCPCH for each timeslot
>>Superframe offset	M			Offset of the first CCPCH transmission in a 72 superframe
>>Repetition period	M			Repetition period of the CCPCH in the 72 superframe
>>Repetition length	M			Length of the allocation for each repetition

Condition	Explanation
BCCH	This IE is only sent when BCCH is used

Range Bound	Explanation
MaxCodeNum	Maximum number of codes for one spreading factor (SF) is equal to SF-1.

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Document (R2-99j89)
1) *e.g. for 3GPP use the format TP-99xxx or for SMG, use the format P-99-xxx*

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25.331 **CR** **098r1** Current Version: Intermediate

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: TSG-RAN#6 *list expected approval meeting # here ↑*

for approval [X] for information [ ]

strategic [ ] non-strategic [ ] *(for SMG use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [X] UTRAN / Radio [X] Core Network [ ]

Source: TSG-RAN WG2 **Date:** Nov. 29. 1999

Subject: RRC Initialisation Information

Work item:

Category: *(only one category shall be marked with an X)*

F	Correction	
A	Corresponds to a correction in an earlier release	
B	Addition of feature	
C	Functional modification of feature	X
D	Editorial modification	

Release:

Phase 2	
Release 96	
Release 97	
Release 98	
Release 99	X
Release 00	

Reason for change: Currently, only RRC IEs are listed in the RRC Initialisation Information. It is proposed to add non-RRC IEs which are necessary to maintain the RRC connection.

Clauses affected: 14.7.1

Other specs Affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

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***** Next modified section *****

14.7.1 RRC Initialisation Information

Information Element	Presence	~~Range~~Multi	IE type and reference	Semantics description
Non RRC IEs				
State of RRC	M		Enumerated (CELL_DCH, CELL_FACH,CELL_PCH, URA_PCH)	
State of RRC procedure	M		Enumerated (await no RRC message, await RRC Connection Re-establishment Complete, await RB Setup Complete, await RB Reconfiguration Complete, await RB Release Complete, await Transport CH Reconfiguration Complete, await Physical CH Reconfiguration Complete, await Active Set Update Complete, await Handover Complete, others)	
Variable RLC parameters	M			
Security related Variable parameters	M			
Implementation specific parameters	O		Bitstring (1..512)	
RRC IEs				
UE Information elements				
U-RNTI				
C-RNTI				
~~Power Control Capability~~				
~~Code Resource Capability~~				
~~UE Mode Capability~~				
~~Transport CH support capability~~				
~~Ciphering Capability~~				
~~Macro Diversity Capability~~				
~~FAUSCH usage support~~				
UE radio Capability				
Ciphering mode info				
Other Information elements				
Inter System message (inter system classmark)				

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Document* *(R2-99k32)
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25.331	CR	102r1	Current Version:	Intermediate

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-RAN#6	for approval	X	Strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*

(U)SIM		ME	X	UTRAN / Radio	X	Core Network	

Source: TSG-RAN WG2 **Date:** Nov. 29. 1999

Subject: RRC connection Re-establishment

Work item:

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature	X		Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: Considering abnormal cases of the RB control procedure, it is proposed to have capability in RRC Connection Re-establishment procedure to setup, reconfigure and release radio bearers.

Clauses affected: 10.1.4.1

Other specs affected:

Other 3G core specifications		→ List of CRs:	
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

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10.1.4.1 RRC CONNECTION RE-ESTABLISHMENT

<Functional description of this message to be included here>
RLC-SAP: UM
Logical channel: CCCH, DCCH
Direction: UTRAN → UE

Information Element	Presence	Range	IE type and reference	Semantics description
Message Type	M			
UE information elements				
New U-RNTI	O			
New C-RNTI	O			
Activation time	O			
CN information elements				
PLMN identity	O			(Note1)
CN related information		0 to <MaxNoCNdomains>		CN related information to be provided for each CN domain
>CN domain identity	O			(Note1)
>NAS system info	O			(Note1)
NAS binding info	C-RBsetup			
CN domain identity	C-RBsetup			
~~**RB information elements**~~				
~~RB information~~		~~0 to <MaxRBcount>~~		~~RB information is sent for each RB affected by this message~~
~~RB identity~~	~~M~~			
~~RLC info~~	~~O~~			~~FFS~~
~~RB multiplexing info~~	~~M~~			
RB information to setup		0 to <MaxSetupRBcount>		
>RB identity	M			
> CHOICE *RLC info type*	M			
>>RLC info				
>RB mapping info	M			
RB information to release		0 to <MaxRetRBcount>		
>RB identity	M			
RB information to reconfigure		0 to <MaxReconRBcount>		
>RB identity	M			
> CHOICE *RLC info type*	O			
>>RLC info				FFS
>> Signalling radio bearer type				
>RB mapping info	O			
>RB suspend/resume	O			Not applicable to the signalling bearer.
Transport Channel Information Elements				

Condition	**Explanation**
RBsetup	This information element is only sent when RB information to setup exists

Range Bound	**Explanation**
MaxNoCN domains	Maximum number of CN domains

~~*MaxRBcount*~~	~~Maximum number of RBs to be reconfigured~~
MaxSetupRBcount	Maximum number of RBs to be setup
MaxRelRBcount	Maximum number of RBs to be released
MaxReconRBcount	Maximum number of RBs to be reconfigured
MaxDelTrCHcount	Maximum number of Transport CHannels to be removed
MaxReconAddTrCH	Maximum number of transport channels to add and reconfigure
MaxRLcount	Maximum number of radio links

CHOICE *RLC info type*	Condition under which the given *RLC info type* is chosen
RLC info	
Signalling radio bearer type	

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Document (R2-99k40)
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CHANGE REQUEST

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25.331	CR	109r1	Current Version:	Intermediate

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-RAN#6	for approval	X	strategic		(for SMG Use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME	X	UTRAN / Radio	X	Core Network	

Source: TSG-RAN WG2 **Date:** 1999-12-03

Subject: TX Diversity Mode for Dedicated Channel

Work item:

Category: *(only one category shall be marked with an X)*				**Release:**		
F	Correction			Phase 2		
A	Corresponds to a correction in an earlier release			Release 96		
B	Addition of feature			Release 97		
C	Functional modification of feature	X		Release 98		
D	Editorial modification			Release 99	X	
				Release 00		

Reason for change: Enabling the signalling of closed loop modes in System Information. Combining STTD indicator and closed loop mode into one information element.

Clauses affected: 10.2.6.10,10.2.6.11

Other specs Affected:			
Other 3G core specifications		→ List of CRs:	
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

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10.2.6.10 Downlink DPCH info

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
CHOICE *mode*				
FDD				
Secondary scrambling code	O		Integer (0..14)	
DL channelization code		1 to <maxChan count>		Channelization codes to be used in the downlink for DPCH
Spreading factor	M		Enumerated(4, 16, 32, 64, 128, 256, 512)	
Code number	M		Integer(0..m axCodeNum)	
Fixed or Flexible Position	M		Enumerated (Fixed, Flexible)	
TFCI existence	M		Boolean	
Number of bits for Pilot bits	C-SF		Enumerated (2,4,8 bits)	
~~STTD Indicator~~TX Diversity Mode	M			
TDD				
DPCH Activation Time	O			Farme number start of allocation period (the Superframe offset can be derived)
Duration	O			Total number of frames
Repetition period	O			Repetition period of the DPCH in the 72 Superframe
Repetition length	O			Length of the allocation for each repetition
TFCI presence	O			Coding for a TFCI field in a DPCH
DPCH channelisation code	M			SF of the channelisation code of the data part for each DPCH
Timeslot	M			Timeslot of DPCH for each DPCH
Midamble type	O			Short or long, for each time slot, for each DPCH
Midamble shift	M			Midamble shift for each timeslot for each DPCH
DPCH activation time	O			Frame number start of allocation (the Superframe OFFset can be derived) for each timeslot for each DPCH

Condition	Explanation
STTD	This IE is only sent if STTD is applied
SF	This IE is only sent if SF=128 or 256 is applied. If SF=256, value is 2,4 or 8 If SF=128, value is 4 or 8

Range Bound	Explanation
MaxChancount	Maximum number of channelization codes used for DL DPCH
MaxCodeNum	Maximum number of codes for one spreading factor

	(SF) is equal to SF-1.

10.2.6.11 ~~FB Mode Transmit Diversity signalling indicator~~TX Diversity Mode

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
Mode	M		Enumerated (none, STTD, closed loop mode1, closed loop mode2)	Associated with DL DPCH info (but not for each RL)

Note: These parameters shall be set optinally associated with DL DPCH info but not for each RL.

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Document (R2-99k69)
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25.331	CR	116r1	Current Version:	Intermediate

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	TSG-RAN#6	for approval	X	Strategic		(for SMG use only)
list expected approval meeting # here ↑		For information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*

(U)SIM		ME	X	UTRAN / Radio	X	Core Network	

Source: TSG-RAN WG2 **Date:** 02/12/99

Subject: TBS Identification in TFS

Work item:

Category: *(only one category Shall be marked With an X)*

F	Correction		**Release:**	Phase 2		
A	Corresponds to a correction in an earlier release			Release 96		
B	Addition of feature			Release 97		
C	Functional modification of feature	X		Release 98		
D	Editorial modification			Release 99	X	
				Release 00		

Reason for change:

1. The transport block sizes currently available in RRC signalling does not support the payload unit concept at RLC. There is also a need to change the transport block sizes because of the new conclusion on MAC header size. The details are discussed in R2#8(99)e56.
Further, the modifications regarding Turbo coding rate and CRC bit length are proposed to reflect the result from the latest RAN WG1 meeting. Details are discussed in R2#8(99)f16.

Important changes
Separation of TFS for common and dedicated channel
New PDU sizes for the different RLC modes on a dedicated transport channel
Limitation on the semi-static parameter TTI for the common transport channel case

2. Transport Block Size Signalling of RLC Transparent Mode for DCH

It is difficult to predict at this point which transport block sizes will be used in transparent mode. This CR contains modifications to the Transport Format Set IE, implementing 1 bit granularity for transport blocks in transparent mode for DCH.

3. Non-octet aligned transport block sizes in TDD mode

In RLC UM and AM modes RLC PDU's are octet aligned. Since in TDD mode MAC headers ate not octet aligned the resulting transport block sizes will NOT be octet aligned.

TB size = MAC header + RLC PDU Size

Therefore in TDD mode either a bit specific Transport Block Size is needed or a octet aligned RLC PDU size must be specified in the TFS. Since the bit specific parameter creates considerable additional signaling load the RLC PDU method is preferred.

Also since multiple non-octet aligned header sizes exist in TDD mode it is necessary to

define the MAC header type so that the correct TB size can be calculated from the RLC PDU size.

Note: CR's 004 and 086 to 25.331 are withdrawn

Clauses affected: 8.5.7.5.1, 10.1.6.4.7, 10.1.6.4.8 and 10.2.5.4

Other specs Affected:			
	Other 3G core specifications		→ List of CRs:
	Other GSM core specifications		→ List of CRs:
	MS test specifications		→ List of CRs:
	BSS test specifications		→ List of CRs:
	O&M specifications		→ List of CRs:

Other comments:

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1.1.1.1.1 8.5.7.5.1 Transport Format Set

If the IEs “transport channel identity” and the IE “Transport format set” is included, the UE shall

- store the transport format set for that transport channel.

If the IE “Transport format Set” has the choice “Transport channel type” set to “Dedicated transport channel”, the UE shall

- Calculate the transport block size for all transport formats in the TFS as

TB size = RLC PDU size + MAC header size,

where,

MAC header size is according to 25.321 if MAC multiplexing is used. Otherwise it is 0 bits.

***** Next modified section *****

10.1.6.4.7 System Information Block type 5

The system information block type 5 contains parameters for the configuration of the common physical channels in the cell. The block may also contain scheduling information for other system information blocks.

Area scope: cell

UE mode: idle mode (and connected mode)

Information Element	Presence	Range	IE type and reference	Semantics description
Other information elements				
Value tag	M			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	M			
PhyCH information elements				
Frequency info	O			
Maximum allowed UL TX power	O			
CHOICE *mode*				
TDD				
PSCH Time slot				
FDD				
Secondary CPICH info	O			Note 2
Primary CCPCH info	O			Note 1
PRACH information		1 .. <maxPRACHcount>		
PRACH info	M			
TFS	M			
CHOICE *mode*				
FDD				
AICH info	M			
TDD				
ASC info	O			
Secondary CCPCH information		1 .. <maxSCCPCHcount>		
Secondary CCPCH info	M			
TFCS	M			For FACHs and PCH
FACH/PCH information		1 .. <maxFAChcount>		
TFS				For each FACHs and PCH Note 3
PICH info	C-Pich			
Maximum allowed UL TX power				
UE Information elements				
UTRAN_DRX_cycle length				

Note 1: DL scrambling code of the Primary CCPCH is the same as the one for Primary CPICH.

Note 2: This parameter is needed in case of using adaptive array antenna.

Note 3: TFS for PCH shall be listed at the top of FACH/PCH information if PCH exists.(FACHcount=1)

Condition	**Explanation**
Pich	PICH info is present only when PCH is multiplexed on Secondary CCPCH
Range Bound	**Explanation**
MaxPRACHcount	Maximum number of PRACH's
MaxSCCPCHcount	Maximum number of secondary CCPCH's
MaxFACHcount	Maximum number of FACH's mapped onto secondary CCPCH's

MaxPCHcount	Maximum number of PCH's mapped onto secondary CCPCH's
MaxSysInfoBlockcount	Maximum number of references to other system information blocks.

1.1.1.1.2 10.1.6.4.8 System Information Block type 6

The system information block type 6 contains parameters for the configuration of the common physical channels to be used in connected mode. The block may also contain scheduling information for other system information blocks. The block is optional. When not sent, the MS the MS shall apply in connected mode the values of the similar information indicated for idle mode.

Area scope: cell

UE mode: connected mode

Information Element	**Presence**	**Range**	**IE type and reference**	**Semantics description**
Other information elements				
Value tag	M			
References to other system information blocks		0 .. <maxSysInfoBlockcount>		
Scheduling information	M			
PhyCH information elements				
Frequency info	O			
Maximum allowed UL TX power	O			
Primary CCPCH info	O			Note 1
CHOICE *mode*				
FDD				
Secondary CPICH info	O			Note 2
PRACH information		0 .. <maxPRACHcount>		
PRACH info	M			
TFS	M			
CHOICE *mode*				
FDD				
AICH info	M			
Secondary CCPCH information		0 .. <maxSCCPCHcount>		
Secondary CCPCH info	M			
TFCS	M			For FACHs and PCH
FACH/PCH information		1 .. <maxFACHcount>		
TFS				For each FACHs and PCH Note 3
PICH info	C-Pich			
Maximum allowed UL TX power				
UE Information elements				
UTRAN_DRX_cycle length				

Note 1: DL scrambling code of the Primary CCPCH is the same as the one for Primary CPICH.

Note 2: This parameter is needed in case of using adaptive array antenna.

Note 3: TFS for PCH shall be listed at the top of FACH/PCH information if PCH exists.(FACHcount=1)

Condition	Explanation
Pich	PICH info is present only when PCH is multiplexed on Secondary CCPCH

Range Bound	Explanation
MaxPRACHcount	Maximum number of PRACH's
MaxSCCPCHcount	Maximum number of secondary CCPCH’s
MaxFACHcount	Maximum number of FACH's mapped onto secondary CCPCH's
MaxPCHcount	Maximum number of PCH's mapped onto secondary CCPCH's
MaxSysInfoBlockcount	Maximum number of references to other system information blocks.

***** Next modified section *****

10.2.5.4 Transport Format Set (TFS)

Information Element/Group name	Presence	Range	IE type and reference	Semantics description
CHOICE *Transport channel type*				
>Dedicated transport channels				
>>Dynamic Transport Format Information		1 to maxTFcount		The first instance of the parameter *Dynamic transport format information* correspond to Transport format 0 for this transport channel, the second to transport format 1 and so on.
>>>Number of Transport blocks	M		Integer(0..4095)	
~~Transport Block Size~~			~~Integer(1..128), Integer(160..40..2040), Integer(2120..80..5000)~~	
>>>CHOICE *RLC mode*	C-Blocks			
>>>>CHOICE *Transparent mode RLC PDU size*				
>>>>>Size type 1			~~Enumerated(1..128)~~	1 bit granularity
>>>>>>Size part 1	M		Enumerated(1..128)	
>>>>>Size type 2			~~Enumerated(136, 144..256)~~	8 bit granularity
>>>>>>Size part 1	M		Enumerated(136, 144..256)	
>>>>>>Size part 2	O		Integer (1..7)	Added to size part 1.
>>>>>Size type 3			~~Enumerated(272, 288..1024)~~	16 bit granularity
>>>>>>Size part 1	M		Enumerated(272, 288..1024)	
>>>>>>Size part 2	O		Integer (1..15)	Added to size part 1.
>>>>>Size type 4			~~Enumerated(1088, 1152..4992)~~	64 bit granularity
>>>>>>Size part 1	M		Enumerated(1088, 1152..4992)	
>>>>>>Size part 2	O		Integer (1..63)	Added to size part 1.
>>>>CHOICE *Acknowledged mode RLC PDU size*				
>>>>>Size type 1			Enumerated(24,32..272)	8 bit granularity
>>>>>Size type 2			Enumerated(304, 336..1040)	32 bit granularity
>>>>>Size type 3			Enumerated(1104, 1168..4944)	64 bit granularity
>>>>CHOICE *Unacknowledged mode RLC PDU size*				
>>>>>Size type 1			Enumerated(16,24..264)	8 bit granularity
>>>>>Size type 2			Enumerated(296,328..1032)	32 bit granularity 1-3 octets
>>>>>Size type 3			Enumerated(1096,1160..5000)	64 bit granularity 1-7octets
>>Semi-static Transport Format				

Information				
>>>Transmission time interval	M		Enumerated(10, 20, 40, 80)	
>>>Type of channel coding	M		Enumerated(No coding, Convolutiona l, Turbo)	
>>>Coding Rate	C-Coding		Enumerated(1/2, 1/3)	
>>>Rate matching attribute			Integer(1..m axRM)	
>>>CRC size	M		Enumerated(0, 8, 16, 24)	

>Common transport channels				
>>Dynamic Transport Format Information		1 to maxTFcount		The first instance of the parameter *Dynamic transport format information* correspond to Transport format 0 for this transport channel, the second to transport format 1 and so on.
>>>Number of Transport blocks	M		Integer(0..4095)	
>>>CHOICE mode				
>>>>FDD				
>>>>>CHOICE *Transport block size*	C-Blocks			
>>>>>>Size type 1			Enumerated(48,56..296)	8 bit granularity
>>>>>>Size type 2			Enumerated(312, 328..1320)	16 bit granularity
>>>>>>Size type 3			Enumerated(1384, 1448..4968)	64 bit granularity
>>>>TDD				
>>>>>CHOICE *RLC mode*	C-Blocks			
>>>>>>CHOICE *Transparent mode RLC PDU size*				
>>>>>>>Size type 1			~~Enumerated(1..128)~~	1 bit granularity
>>>>>>>>Size part 1	M		Enumerated(1..128)	
>>>>>>>Size type 2			~~Enumerated(136, 144..256)~~	8 bit granularity
>>>>>>>>Size part 1	M		Enumerated(136, 144..256)	
>>>>>>>>Size part 2	O		Integer (1..7)	Added to size part 1.
>>>>>>>Size type 3			~~Enumerated(272, 288..1024)~~	16 bit granularity
>>>>>>>>Size part 1	M		Enumerated(272, 288..1024)	
>>>>>>>>Size part 2	O		Integer (1..15)	Added to size part 1.
>>>>>>>Size type 4			~~Enumerated(1088, 1152..4992)~~	64 bit granularity
>>>>>>>>Size part 1	M		Enumerated(1088, 1152..4992)	
>>>>>>>>Size part 2	O		Integer (1..63)	Added to size part 1.
>>>>>>CHOICE *Acknowledged mode RLC PDU size*				
>>>>>>>Size type 1			Enumerated(24,32..272)	8 bit granularity
>>>>>>>Size type 2			Enumerated(304, 336..1040)	32 bit granularity
>>>>>>>Size type 3			Enumerated(1104, 1168..4944)	64 bit granularity
>>>>>>CHOICE *Unacknowledged mode RLC PDU size*				
>>>>>>>Size type 1			Enumerated(16,24..264)	8 bit granularity
>>>>>>>Size type 2			Enumerated(296,328..103	32 bit granularity

			2)	
>>>>>>>Size type 3			Enumerated(1096,1160..5 000)	64 bit granularity
>>>>>MAC Header Type	O		Enumerated(1..4)	Default is non-dedicated logical channel MAC header type
>>Semi-static Transport Format Information				
>>>Transmission time interval	M		Enumerated(10, 20, 40, 80)	
>>>Type of channel coding	M		Enumerated(No coding, Convolutiona l, Turbo)	
>>>Coding Rate	C-Coding		Enumerated(1/2, 1/3)	
>>>Rate matching attribute	M		Integer(1..m axRM)	
>>>CRC size	M		Enumerated(0, 8, 12, 16, 24)	

Condition	**Explanation**
Blocks	This IE is only present if IE "Number of Transport Blocks" is greater than 0.
Coding	This IE is only present if IE "Type of channel coding" is "Convolutional" ~~or "Turbo"~~

Range Bound	**Explanation**
MaxTFcount	Maximum number of different transport formats that can be included in the Transport format set for one transport channel is 32.
MaxRM	Maximum number that could be set as rate matching attribute for a transport channel is 256~~.~~

CHOICE *RLC mode*	**Condition under which the given *RLC mode* is chosen**
Transparent mode RLC PDU size	The RLC entity mapped to this transport channels is using Transparent mode RLC
Acknowledged mode RLC PDU size	The RLC entity mapped to this transport channels is using Acknowledged mode RLC
Unacknowledged mode RLC PDU size	The RLC entity mapped to this transport channels is using Unacknowledged mode RLC

CHOICE *Transport channel type*	**Condition under which the given *Transport channel type* is chosen**
Dedicated transport channels	The transport channel that is configured with this TFS is of type DCH
Common transport channels	The transport channel that is configured with this TFS is of a type not equal to DCH

<Note: The parameter "rate matching attribute" is in line with the RAN WG1 specifications. However, it is not currently in line with the description in 25.302.>