TSG-RAN Meeting #28
Quebec, Canada, 01-03 June 2005

RP-050302
agenda item 7.3.5

Source: TSG-RAN WG2

Title: CRs (Rel-5 & Rel-6) on TEI5

The following CRs are in RP-050302:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.322	0275	-	Rel-5	Erroneous Sequence Number definition	F	5.10.0	5.11.0	R2-051539	TEI5
25.322	0276	-	Rel-6	Erroneous Sequence Number definition	A	6.3.0	6.4.0	R2-051540	TEI5
25.331	2544	-	Rel-5	Timing Reinitialized Handover & Radio Link Timing Adjustment	F	5.12.1	5.13.0	R2-051150	TEI5
25.331	2545	-	Rel-6	Timing Reinitialized Handover & Radio Link Timing Adjustment	A	6.5.0	6.6.0	R2-051151	TEI5
25.331	2546	-	Rel-5	Addition of omitted IE “report criteria” in MEASUREMENT CONTROL message “modify” command	F	5.12.1	5.13.0	R2-051156	TEI5
25.331	2547	-	Rel-6	Addition of omitted IE “report criteria” in MEASUREMENT CONTROL message “modify” command	A	6.5.0	6.6.0	R2-051157	TEI5
25.331	2571	-	Rel-5	CTFC calculation for DCH	F	5.12.1	5.13.0	R2-051542	TEI5
25.331	2572	-	Rel-6	CTFC calculation for DCH	A	6.5.0	6.6.0	R2-051543	TEI5
25.331	2573	-	Rel-5	Default RB identity in IE 'Signalling RB information to setup'	F	5.12.1	5.13.0	R2-051544	TEI5
25.331	2574	-	Rel-6	Default RB identity in IE 'Signalling RB information to setup'	A	6.5.0	6.6.0	R2-051545	TEI5
25.331	2575	-	Rel-5	Default configuration 13	F	5.12.1	5.13.0	R2-051546	TEI5
25.331	2576	-	Rel-6	Default configuration 13	A	6.5.0	6.6.0	R2-051547	TEI5
25.331	2606	1	Rel-5	UE behaviour for DCH SIR target setting for Downlink power control	F	5.12.1	5.13.0	R2-051690	TEI5
25.331	2607	1	Rel-6	UE behaviour for DCH SIR target setting for Downlink power control	A	6.5.0	6.6.0	R2-051691	TEI5

3GPP TSG-RAN2 Meeting #47
Athens, Greece, 9-13 May 2005

Tdoc ⌘R2-051539

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CHANGE REQUEST

⌘ **25.322** **CR** **0275** ⌘ **rev** **-** ⌘ Current version: **5.10.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☒ Core Network ☐

Title:	⌘	Erroneous Sequence Number definition
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	03/05/2005
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change: ⌘ In current subclause 10.1, an erroneous SN is detected if a NACKed SN is outside the interval VT(A) <= SN <= VT(S) – 1. In subclause 9.4, it is specifed that when performing arithmetic comparisons of state variables or sequence number values, a modulus base shall be used. At the Sender, VT(A) shall be assumed to be the modulus base in AM.

In the case of VT(S) = VT(A) and with the convention of modulus base for arithmetic comparisons, the above checking inequality will always be true. In other words, erroneous SN, if existing in status report with NACKs, will not be detected. For example, suppose VT(S) = VT(A) = 200. If SN = 300 is negatviely acknowledged, it should be recognized as an errorneous SN. However, by the current specification, the inequality will be interpreted as: (200 – VT(A)) mod 4096 <= 300 <= (200 – 1 – VT(A)) mod 4096, i.e. 0 <= 300 <= 4095, which is true. Therefore, SN = 300 is not recognized as an erroneous SN by the current specification.

Summary of change: ⌘ The inequality is corrected to be: VT(A) <= SN < VT(S)

Isolated Impact Change Analysis.
This change only impacts the behaviour of detecting erroneous SN from NACKs. No backward compatibility issues are foreseen.

Implementation of this CR by a R99/Rel-4 UE will not cause backwards compatibility issues.

If UTRAN implements the change while UE does not: UTRAN will work normally. UE may not be able to detect erroneous SNs.

		IF UE implements the change while UTRAN does not: UE will work normally while UTRAN may not be able to detect erroneous SNs.
Consequences if not approved:	⌘	RLC entity may not be able to detect erroneous SN. Protocol error can not be recovered.

Clauses affected:	⌘	10.1			
Other specs affected:	⌘	**Y** / **N**		⌘	
			X Other core specifications		
			X Test specifications		
			X O&M Specifications		
Other comments:	⌘				

How to create CRs using this form:

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

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

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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.

10.1 Erroneous Sequence Number

A STATUS PDU or Piggybacked STATUS PDU including "erroneous Sequence Number" is a STATUS PDU or Piggybacked STATUS PDU that contains:

- a LIST, BITMAP or RLIST SUFI in which the "Sequence Number" of at least one AMD PDU that is negatively acknowledged is outside the interval VT(A)≤"Sequence Number"< VT(S)~~≤ VT(S) 1~~; or

- an ACK SUFI in which "LSN" is outside the interval VT(A)≤"LSN"≤ VT(S).

If an AM RLC entity receives a STATUS PDU or a Piggybacked STATUS PDU including "erroneous Sequence Number", it shall:

- discard the STATUS PDU or the Piggybacked STATUS PDU;

- initiate the RLC reset procedure (see subclause 11.4).

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Athens, Greece, 9-13 May 2005

Tdoc ⌘R2-051540

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CHANGE REQUEST

⌘ **25.322** **CR** **0276** ⌘**rev** **-** ⌘ Current version: **6.3.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☒ Core Network ☐

Title:	⌘	Erroneous Sequence Number definition
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	03/05/2005
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
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Use one of the following releases:

Ph2	*(GSM Phase 2)*
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R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change: ⌘ In current subclause 10.1, an erroneous SN is detected if a NACKed SN is outside the interval VT(A) <= SN <= VT(S) – 1. In subclause 9.4, it is specifed that when performing arithmetic comparisons of state variables or sequence number values, a modulus base shall be used. At the Sender, VT(A) shall be assumed to be the modulus base in AM.

In the case of VT(S) = VT(A) and with the convention of modulus base for arithmetic comparisons, the above checking inequality will always be true. In other words, erroneous SN, if existing in status report with NACKs, will not be detected. For example, suppose VT(S) = VT(A) = 200. If SN = 300 is negatviely acknowledged, it should be recognized as an errorneous SN. However, by the current specification, the inequality will be interpreted as: (200 – VT(A)) mod 4096 <= 300 <= (200 – 1 – VT(A)) mod 4096, i.e. 0 <= 300 <= 4095, which is true. Therefore, SN = 300 is not recognized as an erroneous SN by the current specification.

Summary of change: ⌘ The inequality is corrected to be: VT(A) <= SN < VT(S)

Isolated Impact Change Analysis.
This change only impacts the behaviour of detecting erroneous SN from NACKs. No backward compatibility issues are foreseen.

Implementation of this CR by a R99/Rel-4 UE will not cause backwards compatibility issues.

If UTRAN implements the change while UE does not: UTRAN will work normally. UE may not be able to detect erroneous SNs.

		IF UE implements the change while UTRAN does not: UE will work normally while UTRAN may not be able to detect erroneous SNs.
Consequences if not approved:	⌘	RLC entity may not be able to detect erroneous SN. Protocol error can not be recovered.

Clauses affected:	⌘	10.1			
Other specs affected:	⌘	**Y** / **N**		⌘	
			X Other core specifications		
			X Test specifications		
			X O&M Specifications		
Other comments:	⌘				

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10.1 Erroneous Sequence Number

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- a LIST, BITMAP or RLIST SUFI in which the "Sequence Number" of at least one AMD PDU that is negatively acknowledged is outside the interval VT(A)≤"Sequence Number"< VT(S)~~≤ VT(S) 1~~; or

- an ACK SUFI in which "LSN" is outside the interval VT(A)≤"LSN"≤ VT(S).

If an AM RLC entity receives a STATUS PDU or a Piggybacked STATUS PDU including "erroneous Sequence Number", it shall:

- discard the STATUS PDU or the Piggybacked STATUS PDU;

- initiate the RLC reset procedure (see subclause 11.4).

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CHANGE REQUEST

⌘ **25.331** **CR** **2544** ⌘ **rev** **-** ⌘ Current version: **5.12.1** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Timing Reinitialized Handover & Radio Link Timing Adjustment
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	7/4/2005
Category:	⌘	**F**
Release:	⌘	REL-5

Use one of the following categories:
- ***F*** *(correction)*
- ***A*** *(corresponds to a correction in an earlier release)*
- ***B*** *(addition of feature),*
- ***C*** *(functional modification of feature)*
- ***D*** *(editorial modification)*

Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	For the timing reinitialized case the procedural text implies that both the Default DPCH Offset Value and the DPCH Frame Offset are signaled. Additionally signaling of the DPCH Frame Offset may be forced since it has mandatory presence in DL DPCH Info for Each RL in section 10.3.6.21. If the DPCH Frame Offset is signaled in a reconfiguration procedure we have specified for RL timing adjustment in section 8.2.2.3, if the DPCH Frame Offset corresponds to an adjustment of more then 256 chips the procedure in invalid. It is our understanding that if timing reinitialized handover is performed we do not want to restrict the change chip offset to 256 chips. Therefore the text on RL timing adjustment should not be applied in the case of timing reinitialized handover.
Summary of change:	⌘	The radio link timing adjustment 256 chip limitation is removed from the case of timing reinitialized hard handover.
Consequences if not approved:	⌘	Timing reinitialized handover will be limited to 256 chip adjustments.

Clauses affected:	⌘	8.2.2.3

Other specs affected: ⌘	Y	N		⌘
	X		Other core specifications	
			Test specifications	
			O&M Specifications	

Other comments: ⌘

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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.

8.2.2.3 Reception of RADIO BEARER SETUP or RADIO BEARER RECONFIGURATION or RADIO BEARER RELEASE or TRANSPORT CHANNEL RECONFIGURATION or PHYSICAL CHANNEL RECONFIGURATION message by the UE

The UE shall:

1> be able to receive any of the following messages:

2> RADIO BEARER SETUP message; or

2> RADIO BEARER RECONFIGURATION message; or

2> RADIO BEARER RELEASE message; or

2> TRANSPORT CHANNEL RECONFIGURATION message; or

2> PHYSICAL CHANNEL RECONFIGURATION message;

1> be able to perform a hard handover and apply physical layer synchronisation procedure A as specified in [29], even if no prior UE measurements have been performed on the target cell and/or frequency.

In case the reconfiguration procedure is used to remove all existing RL(s) in the active set while new RL(s) are established the UE shall:

1> if the UE has a pending "TGPS reconfiguration CFN" at the activation time received in the reconfiguration message and the reconfiguration requests a timing re-initialised hard handover (see subclause 8.3.5.1), the UE may:

2> abort the pending CM activation;

2> set the CM_PATTERN_ACTIVATION_ABORTED to TRUE.

1> otherwise:

2> set the CM_PATTERN_ACTIVATION_ABORTED to FALSE.

If the UE receives:

- a RADIO BEARER SETUP message; or
- a RADIO BEARER RECONFIGURATION message; or
- a RADIO BEARER RELEASE message; or
- a TRANSPORT CHANNEL RECONFIGURATION message; or
- a PHYSICAL CHANNEL RECONFIGURATION message:

it shall:

1> set the variable ORDERED_RECONFIGURATION to TRUE;

1> if the UE will enter the CELL_DCH state from any state other than CELL_DCH state at the conclusion of this procedure:

2> perform the physical layer synchronisation procedure A as specified in [29] (FDD only).

1> act upon all received information elements as specified in subclause 8.6, unless specified in the following and perform the actions below.

The UE may:

1> maintain a list of the set of cells to which the UE has Radio Links if the IE "Cell ID" is present.

The UE may first release the physical channel configuration used at reception of the reconfiguration message. The UE shall then:

1> in FDD, if the IE "PDSCH code mapping" is included but the IE "PDSCH with SHO DCH Info" is not included and if the DCH has only one link in its active set:

2> act upon the IE "PDSCH code mapping" as specified in subclause 8.6; and

2> infer that the PDSCH will be transmitted from the cell from which the downlink DPCH is transmitted.

1> enter a state according to subclause 8.6.3.3.

In case the UE receives a RADIO BEARER RECONFIGURATION message including the IE "RB information to reconfigure" that only includes the IE "RB identity", the UE shall:

1> handle the message as if IE "RB information to reconfigure" was absent.

NOTE: The RADIO BEARER RECONFIGURATION message always includes the IE "RB information to reconfigure". UTRAN has to include it even if it does not require the reconfiguration of any RB.

In case the UE receives a RADIO BEARER RECONFIGURATION message with the IE "Specification mode" set to "Preconfiguration" while the message is not sent through GERAN *Iu mode*, the UE behaviour is unspecified.

If after state transition the UE enters CELL_DCH state, the UE shall, after the state transition:

1> in FDD; or

1> in TDD when "Primary CCPCH Info" is included indicating a new target cell and "New C-RNTI" is not specified:

2> remove any C-RNTI from MAC;

2> clear the variable C_RNTI.

If after state transition the UE leaves CELL_DCH state, the UE shall, after the state transition:

1> clear any stored IE "Downlink HS-PDSCH information";

1> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25.

In FDD, if after state transition the UE leaves CELL_DCH state, the UE shall, after the state transition:

1> remove any DSCH-RNTI from MAC;

1> clear the variable DSCH_RNTI.

If the UE was in CELL_DCH state upon reception of the reconfiguration message and remains in CELL_DCH state, the UE shall:

1> if the IE "Uplink DPCH Info" is absent, not change its current UL Physical channel configuration;

1> in TDD:

2> if "Primary CCPCH Info" is included indicating a new target cell and "New C-RNTI" is not specified:

3> remove any C-RNTI from MAC;

3> clear the variable C_RNTI.

2> if "Primary CCPCH Info" is included indicating a new target cell and "New H-RNTI" is not specified:

3> remove any H-RNTI from MAC;

3> clear the variable H_RNTI;

3> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25.

1> if "DPCH frame offset" is included for one or more RLs in the active set, and the reconfiguration procedure does not request a timing reinitialized hard handover (see subclause 8.3.5.1):

2> use its value to determine the beginning of the DPCH frame in accordance with the following:

3> if the received IE "DPCH frame offset" is across the value range border compared to the DPCH frame offset currently used by the UE:

4> consider it to be a request to adjust the timing with 256 chips across the frame border (e.g. if the UE receives value 0 while the value currently used is 38144 consider this as a request to adjust the timing with +256 chips).

3> if after taking into account value range borders, the received IE "DPCH frame offset" corresponds to a request to adjust the timing with a step exceeding 256 chips:

4> set the variable INVALID_CONFIGURATION to TRUE.

3> and the procedure ends.

2> adjust the radio link timing accordingly.

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CHANGE REQUEST

⌘ **25.331** **CR** **2545** ⌘ **rev** **-** ⌘ Current version: **6.5.0** ⌘

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Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Timing Reinitialized Handover & Radio Link Timing Adjustment
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	7/4/2005
Category:	⌘	**A**
Release:	⌘	REL-6

Use one of the following categories:
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- ***A*** *(corresponds to a correction in an earlier release)*
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Reason for change:	⌘	For the timing reinitialized case the procedural text implies that both the Default DPCH Offset Value and the DPCH Frame Offset are signaled. Additionally signaling of the DPCH Frame Offset may be forced since it has mandatory presence in DL DPCH Info for Each RL in section 10.3.6.21. If the DPCH Frame Offset is signaled in a reconfiguration procedure we have specified for RL timing adjustment in section 8.2.2.3, if the DPCH Frame Offset corresponds to an adjustment of more then 256 chips the procedure in invalid. It is our understanding that if timing reinitialized handover is performed we do not want to restrict the change chip offset to 256 chips. Therefore the text on RL timing adjustment should not be applied in the case of timing reinitialized handover.
Summary of change:	⌘	The radio link timing adjustment 256 chip limitation is removed from the case of timing reinitialized hard handover.
Consequences if not approved:	⌘	Timing reinitialized handover will be limited to 256 chip adjustments.

Clauses affected:	⌘	8.2.2.3

Other specs affected: ⌘	Y	N		⌘
	X		Other core specifications	
			Test specifications	
			O&M Specifications	

Other comments: ⌘

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8.2.2.3 Reception of RADIO BEARER SETUP or RADIO BEARER RECONFIGURATION or RADIO BEARER RELEASE or TRANSPORT CHANNEL RECONFIGURATION or PHYSICAL CHANNEL RECONFIGURATION message by the UE

The UE shall:

1> be able to receive any of the following messages:

2> RADIO BEARER SETUP message; or

2> RADIO BEARER RECONFIGURATION message; or

2> RADIO BEARER RELEASE message; or

2> TRANSPORT CHANNEL RECONFIGURATION message; or

2> PHYSICAL CHANNEL RECONFIGURATION message;

1> be able to perform a hard handover and apply physical layer synchronisation procedure A as specified in [29], even if no prior UE measurements have been performed on the target cell and/or frequency.

In case the reconfiguration procedure is used to remove all existing RL(s) in the active set while new RL(s) are established the UE shall:

1> if the UE has a pending "TGPS reconfiguration CFN" at the activation time received in the reconfiguration message and the reconfiguration requests a timing re-initialised hard handover (see subclause 8.3.5.1), the UE may:

2> abort the pending CM activation;

2> set the CM_PATTERN_ACTIVATION_ABORTED to TRUE.

1> otherwise:

2> set the CM_PATTERN_ACTIVATION_ABORTED to FALSE.

If the UE receives:

- a RADIO BEARER SETUP message; or
- a RADIO BEARER RECONFIGURATION message; or
- a RADIO BEARER RELEASE message; or
- a TRANSPORT CHANNEL RECONFIGURATION message; or
- a PHYSICAL CHANNEL RECONFIGURATION message:

it shall:

1> set the variable ORDERED_RECONFIGURATION to TRUE;

1> if the UE will enter the CELL_DCH state from any state other than CELL_DCH state at the conclusion of this procedure:

2> perform the physical layer synchronisation procedure A as specified in [29] (FDD only).

1> act upon all received information elements as specified in subclause 8.6, unless specified in the following and perform the actions below.

The UE may:

1> maintain a list of the set of cells to which the UE has Radio Links if the IE "Cell ID" is present.

The UE may first release the physical channel configuration used at reception of the reconfiguration message. The UE shall then:

1> in FDD, if the IE "PDSCH code mapping" is included but the IE "PDSCH with SHO DCH Info" is not included and if the DCH has only one link in its active set:

2> act upon the IE "PDSCH code mapping" as specified in subclause 8.6; and

2> infer that the PDSCH will be transmitted from the cell from which the downlink DPCH is transmitted.

1> enter a state according to subclause 8.6.3.3.

In case the UE receives a RADIO BEARER RECONFIGURATION message including the IE "RB information to reconfigure" that only includes the IE "RB identity", the UE shall:

1> handle the message as if IE "RB information to reconfigure" was absent.

NOTE: The RADIO BEARER RECONFIGURATION message always includes the IE "RB information to reconfigure". UTRAN has to include it even if it does not require the reconfiguration of any RB.

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1> in TDD when "Primary CCPCH Info" is included indicating a new target cell and "New C-RNTI" is not specified:

2> remove any C-RNTI from MAC;

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If after state transition the UE leaves CELL_DCH state, the UE shall, after the state transition:

1> clear any stored IE "Downlink HS-PDSCH information";

1> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25.

In FDD, if after state transition the UE leaves CELL_DCH state, the UE shall, after the state transition:

1> remove any DSCH-RNTI from MAC;

1> clear the variable DSCH_RNTI.

If the UE was in CELL_DCH state upon reception of the reconfiguration message and remains in CELL_DCH state, the UE shall:

1> if the IE "Uplink DPCH Info" is absent, not change its current UL Physical channel configuration;

1> in TDD:

2> if "Primary CCPCH Info" is included indicating a new target cell and "New C-RNTI" is not specified:

3> remove any C-RNTI from MAC;

3> clear the variable C_RNTI.

2> if "Primary CCPCH Info" is included indicating a new target cell and "New H-RNTI" is not specified:

3> remove any H-RNTI from MAC;

3> clear the variable H_RNTI;

3> determine the value for the HS_DSCH_RECEPTION variable and take the corresponding actions as described in subclause 8.5.25.

1> if "DPCH frame offset" is included for one or more RLs in the active set, and the reconfiguration procedure does not request a timing reinitialized hard handover (see subclause 8.3.5.1):

2> use its value to determine the beginning of the DPCH frame in accordance with the following:

3> if the received IE "DPCH frame offset" is across the value range border compared to the DPCH frame offset currently used by the UE:

4> consider it to be a request to adjust the timing with 256 chips across the frame border (e.g. if the UE receives value 0 while the value currently used is 38144 consider this as a request to adjust the timing with +256 chips).

3> if after taking into account value range borders, the received IE "DPCH frame offset" corresponds to a request to adjust the timing with a step exceeding 256 chips:

4> set the variable INVALID_CONFIGURATION to TRUE.

3> and the procedure ends.

2> adjust the radio link timing accordingly.

3GPP TSG-RAN2 #46bis
Beijing, China, 4-8 April 2005

Tdoc ⌘R2-051156

CR-Form-v7

CHANGE REQUEST

⌘ **25.331** **CR** **2546** ⌘ **rev** **-** ⌘ Current version: **5.12.1** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Addition of omitted IE "report criteria" in MEASUREMENT CONTROL message "modify" command
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	April 7, 2005
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	1) Specification of UE behaviour in the case where a MEASUREMENT CONTROL message applies a "modify" command does not include a means to change the reporting criteria (except in the cases of inter- or intra-frequency measurements). 2) Behaviour of a UE that is instructed to change reporting mode for quality measurements to a mode incompatible with BLER reporting, but not explicitly instructed to set BLER reporting to FALSE, is not clear.
Summary of change:	⌘	1) The IE "report criteria" is added to the lists of affected IEs. 2) UE behaviour in case of inconsistent settings is unspecified.
Consequences if not approved:	⌘	1) Spec will not include a means of changing the report criteria in these cases. 2) UE behaviour will remain unclear.

Clauses affected:	⌘	8.4.1.3

Other specs affected: ⌘	Y	N		⌘
		X	Other core specifications	
		X	Test specifications	
		X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:

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1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

8.4.1.3 Reception of MEASUREMENT CONTROL by the UE

Upon reception of a MEASUREMENT CONTROL message the UE shall perform actions specified in subclause 8.6 unless otherwise specified below.

The UE shall:

1> read the IE "Measurement command";

1> if the IE "Measurement command" has the value "setup":

2> store this measurement in the variable MEASUREMENT_IDENTITY according to the IE "measurement identity", first releasing any previously stored measurement with that identity if that exists;

2> if the measurement type is quality, UE internal, intra-frequency, inter-frequency or inter-RAT:

3> if the UE is in CELL_FACH state:

4> the UE behaviour is not specified.

2> for measurement types "inter-RAT measurement" or "inter-frequency measurement" that require measurements on a frequency other than the actually used frequency:

3> if, according to its measurement capabilities, the UE requires compressed mode to perform that measurement type and after reception of this message a compressed mode pattern sequence with an appropriate measurement purpose is active according to the IE "Current TGPS Status Flag" in UE variable TGPS_IDENTITY; or

3> if, according to its measurement capabilities, the UE does not require compressed mode to perform the measurements on at least one supported band of that measurement type:

4> if the measurement is valid in the current RRC state of the UE:

5> begin measurements according to the stored control information for this measurement identity.

NOTE: The UE is not required to perform measurements on cells for which it needs compressed mode but a suitable compressed mode pattern is not activated.

2> for measurement type "inter-frequency measurement" that requires measurements only on the same frequency as the actually used frequency:

3> if the measurement is valid in the current RRC state of the UE:

4> begin measurements according to the stored control information for this measurement identity.

2> for measurement type "UE positioning measurement":

3> if the UE is in CELL_FACH state:

4> if IE "Positioning Method" is set to "OTDOA":

5> if IE "Method Type" is set to "UE assisted":

6> if IE "UE positioning OTDOA assistance data for UE assisted" is not included:

7> if System Information Block type 15.4 is broadcast:

8> read System Information Block type 15.4.

7> act as specified in subclause 8.6.7.19.2.

5> if IE "Method Type" is set to "UE based":

6> if IE "UE positioning OTDOA assistance data for UE based" is not included:

7> if System Information Block type 15.5 is broadcast:

8> read System Information Block type 15.5.

7> act as specified in subclause 8.6.7.19.2a.

2> for any other measurement type:

3> if the measurement is valid in the current RRC state of the UE:

4> begin measurements according to the stored control information for this measurement identity.

1> if the IE "Measurement command" has the value "modify":

2> for all IEs present in the MEASUREMENT CONTROL message:

3> if a measurement was stored in the variable MEASUREMENT_IDENTITY associated to the identity by the IE "measurement identity":

4> if the measurement type is quality, UE internal, intra-frequency, inter-frequency or inter-RAT:

5> if the UE is in CELL_FACH state:

6> the UE behaviour is not specified.

4> if measurement type is set to "intra-frequency measurement", for any of the optional IEs "Intra-frequency measurement objects list", "Intra-frequency measurement quantity", "Intra-frequency reporting quantity", "Measurement Validity", "report criteria" and "parameters required for each event" (given "report criteria" is set to "intra-frequency measurement reporting criteria") that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "inter-frequency measurement", for any of the optional IEs "Inter-frequency measurement quantity", "Inter-frequency reporting quantity", "Measurement Validity", "Inter-frequency set update" and "parameters required for each event" (given "report criteria" is set to either "inter-frequency measurement reporting criteria" or "intra-frequency measurement reporting criteria") that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "inter-RAT measurement", for any of the optional IEs "Inter-RAT measurement objects list", "Inter-RAT measurement quantity", and "Inter-RAT reporting quantity" ~~and "parameters required for each event" (given "report criteria" is set to "inter-RAT measurement reporting criteria")~~ that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "UE positioning measurement" and the IE "UE positioning OTDOA assistance data" is present, for any of the optional IEs "UE positioning OTDOA neighbour cell info for UE-assisted", "UE positioning OTDOA reference cell info for UE-assisted", "UE positioning OTDOA reference cell info for UE-based", "UE positioning OTDOA neighbour cell info for UE-based" and "UE positioning" that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "UE positioning measurement" and the IE "UE positioning GPS assistance data" is present, for any of the optional IEs "UE positioning GPS reference time", "UE positioning GPS reference UE position", "UE positioning GPS DGPS corrections", "UE positioning GPS ionospheric model", "UE positioning GPS UTC model", "UE positioning GPS acquisition assistance", "UE positioning GPS real-time integrity" that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "traffic volume measurement", for any of the optional IEs "Traffic volume measurement Object", "Traffic volume measurement quantity", "Traffic volume reporting quantity", and "Measurement Validity" ~~and "parameters required for each event" (given "report criteria" is set to "traffic volume measurement reporting criteria")~~ that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "quality measurement", for ~~any of~~ the optional IE "Quality reporting quantity" ~~that~~ if it is present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "UE internal measurement", for any of the optional IEs "UE internal measurement quantity", and "UE internal reporting quantity" ~~and "parameters required for each event" (given "report criteria" is set to "UE internal measurement reporting criteria")~~ that are present in the MEASUREMENT CONTROL message:

5> replace all instances of the IEs listed above (and all their children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IEs received in the MEASUREMENT CONTROL message;

5> leave all other stored information elements unchanged in the variable MEASUREMENT_IDENTITY.

3> otherwise:

4> set the variable CONFIGURATION_INCOMPLETE to TRUE.

2> if measurement type is set to "inter-frequency measurement":

3> if "report criteria" is set to "intra-frequency measurement reporting criteria" and "reporting criteria" in "inter-frequency measurement quantity" is set to "intra-frequency reporting criteria":

4> leave the currently stored "inter-frequency measurement reporting criteria" within "report criteria" and "inter-frequency reporting criteria" within "inter-frequency measurement quantity" unchanged, and continue to act on the information stored in these variables.

NOTE: If the UTRAN wants to modify the inter-frequency cell info list for an inter-frequency measurement configured with event based reporting without repeating any IEs related to the configured events, one possibility is to set the IE "report criteria" to "intra-frequency measurement reporting criteria", not include the IE "parameters required for each event", and set the IE "reporting criteria" in the IE "inter-frequency measurement quantity" to "intra-frequency reporting criteria".

2> for measurement types "inter-frequency measurement" that require measurements on a frequency other than the actually used frequency, or that require measurements on another RAT:

3> if, according to its measurement capabilities, the UE requires compressed mode to perform that measurement type and after reception of this message a compressed mode pattern sequence with an appropriate measurement purpose is active according to the IE "Current TGPS Status Flag" in UE variable TGPS_IDENTITY; or

3> if, according to its measurement capabilities, the UE does not require compressed mode, on at least one supported band of that measurement type, to perform the measurements:

4> resume the measurements according to the new stored measurement control information.

2> for measurement type "inter-frequency measurement" that requires measurements only on the same frequency as the actually used frequency:

3> if the measurement is valid in the current RRC state of the UE:

4> resume measurements according to the new stored control information for this measurement identity.

2> for any other measurement type:

3> resume the measurements according to the new stored measurement control information.

2> for measurement type "inter-RAT measurement":

3> if "report criteria" is set to "inter-RAT measurement reporting criteria":

4> if the value of "report criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is not "inter-RAT measurement reporting criteria", or

4> if the value of "report criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is "inter-RAT measurement reporting criteria" and if the IE "Parameters required for each event" is present:

5> replace the IE "report criteria" (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE "report criteria" received in the MEASUREMENT CONTROL message.

3> if "report criteria" is not set to "inter-RAT measurement reporting criteria":

4> replace the IE "report criteria" (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE "report criteria" received in the MEASUREMENT CONTROL message.

2> for measurement type "UE positioning measurement":

3> if "reporting criteria" is set to "UE positioning reporting criteria":

4> if the value of "reporting criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is not "UE positioning reporting criteria", or

4> if the value of "reporting criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is "UE positioning reporting criteria" and if the IE "Parameters required for each event" is present:

5> replace the IE "reporting criteria" (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE "report criteria" received in the MEASUREMENT CONTROL message.

3> if "reporting criteria" is not set to "UE positioning reporting criteria":

4> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

2> for measurement type "traffic volume measurement":

3> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

2> for measurement type "quality measurement":

3> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message;

3> if “report criteria” is set to “quality measurement reporting criteria”:

4> if the value of “BLER reporting” in any instance of the IE “Quality reporting quantity” stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message is set to TRUE:

5> the UE behaviour is unspecified.

2> for measurement type "UE internal measurement":

3> if “report criteria” is set to “UE internal measurement reporting criteria”:

4> if the value of “report criteria” stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is not “UE internal measurement reporting criteria”, or

4> if the value of “report criteria” stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is “UE internal measurement reporting criteria” and if the IE “Parameters sent for each UE internal measurement event” is present:

5> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

3> if “report criteria” is not set to “UE internal measurement reporting criteria”:

4> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

1> if the IE "measurement command" has the value "release":

2> terminate the measurement associated with the identity given in the IE "measurement identity";

2> clear all stored measurement control information related associated to this measurement identity in variable MEASUREMENT_IDENTITY.

1> if the IE "DPCH Compressed Mode Status Info" is present:

2> if, as the result of this message, UE will have more than one transmission gap pattern sequence with the same measurement purpose active (according to IEs "TGMP" and "Current TGPS Status Flag" in variable TGPS_IDENTITY):

3> set the variable CONFIGURATION_INCOMPLETE to TRUE.

2> if there is any pending "TGPS reconfiguration CFN" or any pending "TGCFN":

3> the UE behaviour is unspecified.

2> if there is a pending "activation time" for a reconfiguration procedure that included the IE "DPCH Compressed mode info":

3> the UE behaviour is unspecified.

2> if pattern sequence corresponding to IE "TGPSI" is already active (according to "Current TGPS Status Flag") in the variable TGPS_IDENTITY):

3> if the "TGPS Status Flag" in this message is set to "deactivate" for the corresponding pattern sequence:

4> deactivate this pattern sequence at the beginning of the frame indicated by IE "TGPS reconfiguration CFN" received in the message;

4> set the "Current TGPS Status Flag" for this pattern sequence in the variable TGPS_IDENTITY to "inactive" at the frame indicated by IE "TGPS reconfiguration CFN" received in the message.

3> if the "TGPS Status Flag" in this message is set to "activate" for the corresponding pattern sequence:

4> deactivate this pattern sequence at the beginning of the frame indicated by IE "TGPS reconfiguration CFN" received in the message.

NOTE1: The temporary deactivation of pattern sequences for which the status flag is set to "activate" can be used by the network to align the timing of already active patterns with newly activated patterns.

NOTE2: The deactivation of pattern sequences only occurs as a result of RRC messages received by the UE, i.e. the UE does not set the "Current TGPS Status Flag" to "inactive" after the final gap of a finite length pattern sequence.

2> after the time indicated by IE "TGPS reconfiguration CFN" has elapsed:

3> activate the pattern sequence corresponding to each IE "TGPSI" for which the "TGPS status flag" in this message is set to "activate" at the time indicated by IE "TGCFN"; and

3> set the corresponding "Current TGPS status flag" for this pattern sequence in the variable TGPS_IDENTITY to "active"; and

3> begin the inter-frequency and/or inter-RAT measurements corresponding to the pattern sequence measurement purpose of each activated pattern sequence;

3> if the values of IE "TGPS reconfiguration CFN" and IE "TGCFN" are equal:

4> start the concerned pattern sequence immediately at that CFN.

2> not alter pattern sequences stored in variable TGPS_IDENTITY, if the pattern sequence is not identitifed in IE "TGPSI" in the received message.

1> if the UE in CELL_FACH state receives a MEASUREMENT CONTROL message, which indicates the same measurement identity as that stored in the variable MEASUREMENT_IDENTITY:

2> update the stored information with the traffic volume measurement control information in variable MEASUREMENT_IDENTITY; and

2> refrain from updating the traffic volume measurement control information associated with this measurement identity in the variable MEASUREMENT_IDENTITY with the information received in System Information Block type 12 (or System Information Block type 11, according to subclause 8.1.1.6.11) until this measurement is explicitly released with another MEASUREMENT CONTROL message.

1> if the IE "Read SFN indicator" included in the IE "Cell info" of an inter-frequency cell is set to TRUE and the variable UE_CAPABILITY_TRANSFERRED has the DL "Measurement capability" for "FDD measurements" set to TRUE (the UE requires DL compressed mode in order to perform measurements on FDD):

2> set the variable CONFIGURATION_INCOMPLETE to TRUE.

1> clear the entry for the MEASUREMENT CONTROL message in the table "Accepted transactions" in the variable TRANSACTIONS.

The UE may:

1> if the IE "Measurement command" has the value "setup":

2> for measurement type "UE positioning measurement":

3> if the UE is CELL_FACH state:

4> if IE "Positioning Method" is set to "GPS":

5> if IE "UE positioning GPS assistance data" is not included and variable UE_POSITIONING_GPS_DATA is empty:

6> if System Information Block types 15, 15.1, 15.2 and 15.3 are broadcast:

7> read System Information Block types 15, 15.1, 15.2 and 15.3.

6> act as specified in subclause 8.6.7.19.3.

1> and the procedure ends.

3GPP TSG-RAN2 #46bis
Beijing, China, 4-8 April 2005

Tdoc ⌘R2-051157

CR-Form-v7

CHANGE REQUEST

⌘ **25.331** **CR** **2547** ⌘ **rev** **-** ⌘ Current version: **6.5.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☐ Core Network ☐

Title:	⌘	Addition of omitted IE "report criteria" in MEASUREMENT CONTROL message "modify" command
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	April 7, 2005
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*

Reason for change:	⌘	1) Specification of UE behaviour in the case where a MEASUREMENT CONTROL message applies a "modify" command does not include a means to change the reporting criteria (except in the cases of inter- or intra-frequency measurements). 2) Behaviour of a UE that is instructed to change reporting mode for quality measurements to a mode incompatible with BLER reporting, but not explicitly instructed to set BLER reporting to FALSE, is not clear.
Summary of change:	⌘	1) The IE "report criteria" is added to the lists of affected IEs. 2) UE behaviour in case of inconsistent settings is unspecified.
Consequences if not approved:	⌘	1) Spec will not include a means of changing the report criteria in these cases. 2) UE behaviour will remain unclear.

Clauses affected:	⌘	8.4.1.3

Other specs affected: ⌘	Y	N	
		X	Other core specifications
		X	Test specifications
		X	O&M Specifications

⌘

Other comments: ⌘

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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.

8.4.1.3 Reception of MEASUREMENT CONTROL by the UE

Upon reception of a MEASUREMENT CONTROL message the UE shall perform actions specified in subclause 8.6 unless otherwise specified below.

The UE shall:

1> read the IE "Measurement command";

1> if the IE "Measurement command" has the value "setup":

2> store this measurement in the variable MEASUREMENT_IDENTITY according to the IE "measurement identity", first releasing any previously stored measurement with that identity if that exists;

2> if the measurement type is quality, UE internal, intra-frequency, inter-frequency or inter-RAT:

3> if the UE is in CELL_FACH state:

4> the UE behaviour is not specified.

2> for measurement types "inter-RAT measurement" or "inter-frequency measurement" that require measurements on a frequency other than the actually used frequency:

3> if, according to its measurement capabilities, the UE requires compressed mode to perform that measurement type and after reception of this message a compressed mode pattern sequence with an appropriate measurement purpose is active according to the IE "Current TGPS Status Flag" in UE variable TGPS_IDENTITY; or

3> if, according to its measurement capabilities, the UE does not require compressed mode to perform the measurements on at least one supported band of that measurement type:

4> if the measurement is valid in the current RRC state of the UE:

5> begin measurements according to the stored control information for this measurement identity.

NOTE: The UE is not required to perform measurements on cells for which it needs compressed mode but a suitable compressed mode pattern is not activated.

2> for measurement type "inter-frequency measurement" that requires measurements only on the same frequency as the actually used frequency:

3> if the measurement is valid in the current RRC state of the UE:

4> begin measurements according to the stored control information for this measurement identity.

2> for measurement type "UE positioning measurement":

3> if the UE is in CELL_FACH state:

4> if IE "Positioning Method" is set to "OTDOA":

5> if IE "Method Type" is set to "UE assisted":

6> if IE "UE positioning OTDOA assistance data for UE assisted" is not included:

7> if System Information Block type 15.4 is broadcast:

8> read System Information Block type 15.4.

7> act as specified in subclause 8.6.7.19.2.

5> if IE "Method Type" is set to "UE based":

6> if IE "UE positioning OTDOA assistance data for UE based" is not included:

7> if System Information Block type 15.5 is broadcast:

8> read System Information Block type 15.5.

7> act as specified in subclause 8.6.7.19.2a.

2> for any other measurement type:

3> if the measurement is valid in the current RRC state of the UE:

4> begin measurements according to the stored control information for this measurement identity.

1> if the IE "Measurement command" has the value "modify":

2> for all IEs present in the MEASUREMENT CONTROL message:

3> if a measurement was stored in the variable MEASUREMENT_IDENTITY associated to the identity by the IE "measurement identity":

4> if the measurement type is quality, UE internal, intra-frequency, inter-frequency or inter-RAT:

5> if the UE is in CELL_FACH state:

6> the UE behaviour is not specified.

4> if measurement type is set to "intra-frequency measurement", for any of the optional IEs "Intra-frequency measurement objects list", "Intra-frequency measurement quantity", "Intra-frequency reporting quantity", "Measurement Validity", "report criteria" and "parameters required for each event" (given "report criteria" is set to "intra-frequency measurement reporting criteria") that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "inter-frequency measurement", for any of the optional IEs "Inter-frequency measurement quantity", "Inter-frequency reporting quantity", "Measurement Validity", "Inter-frequency set update" and "parameters required for each event" (given "report criteria" is set to either "inter-frequency measurement reporting criteria" or "intra-frequency measurement reporting criteria") that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "inter-RAT measurement", for any of the optional IEs "Inter-RAT measurement objects list", "Inter-RAT measurement quantity", and "Inter-RAT reporting quantity" ~~and "parameters required for each event" (given "report criteria" is set to "inter-RAT measurement reporting criteria")~~ that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "UE positioning measurement" and the IE "UE positioning OTDOA assistance data" is present, for any of the optional IEs "UE positioning OTDOA neighbour cell info for UE-assisted", "UE positioning OTDOA reference cell info for UE-assisted", "UE positioning OTDOA reference cell info for UE-based", "UE positioning OTDOA neighbour cell info for UE-based" and "UE positioning" that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "UE positioning measurement" and the IE "UE positioning GPS assistance data" is present, for any of the optional IEs "UE positioning GPS reference time", "UE positioning GPS reference UE position", "UE positioning GPS DGPS corrections", "UE positioning GPS ionospheric model", "UE positioning GPS UTC model", "UE positioning GPS acquisition assistance", "UE positioning GPS real-time integrity" that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "traffic volume measurement", for any of the optional IEs "Traffic volume measurement Object", "Traffic volume measurement quantity", "Traffic volume reporting quantity", and "Measurement Validity" ~~and "parameters required for each event" (given "report criteria" is set to "traffic volume measurement reporting criteria")~~ that are present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "quality measurement", for ~~any of~~ the optional IE "Quality reporting quantity" ~~that~~ if it is present in the MEASUREMENT CONTROL message:

4> if measurement type is set to "UE internal measurement", for any of the optional IEs "UE internal measurement quantity", and "UE internal reporting quantity" ~~and "parameters required for each event" (given "report criteria" is set to "UE internal measurement reporting criteria")~~ that are present in the MEASUREMENT CONTROL message:

5> replace all instances of the IEs listed above (and all their children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IEs received in the MEASUREMENT CONTROL message;

5> leave all other stored information elements unchanged in the variable MEASUREMENT_IDENTITY.

3> otherwise:

4> set the variable CONFIGURATION_INCOMPLETE to TRUE.

2> if measurement type is set to "inter-frequency measurement":

3> if "report criteria" is set to "intra-frequency measurement reporting criteria" and "reporting criteria" in "inter-frequency measurement quantity" is set to "intra-frequency reporting criteria":

4> leave the currently stored "inter-frequency measurement reporting criteria" within "report criteria" and "inter-frequency reporting criteria" within "inter-frequency measurement quantity" unchanged, and continue to act on the information stored in these variables.

NOTE: If the UTRAN wants to modify the inter-frequency cell info list for an inter-frequency measurement configured with event based reporting without repeating any IEs related to the configured events, one possibility is to set the IE "report criteria" to "intra-frequency measurement reporting criteria", not include the IE "parameters required for each event", and set the IE "reporting criteria" in the IE "inter-frequency measurement quantity" to "intra-frequency reporting criteria".

2> for measurement types "inter-frequency measurement" that require measurements on a frequency other than the actually used frequency, or that require measurements on another RAT:

3> if, according to its measurement capabilities, the UE requires compressed mode to perform that measurement type and after reception of this message a compressed mode pattern sequence with an appropriate measurement purpose is active according to the IE "Current TGPS Status Flag" in UE variable TGPS_IDENTITY; or

3> if, according to its measurement capabilities, the UE does not require compressed mode, on at least one supported band of that measurement type, to perform the measurements:

4> resume the measurements according to the new stored measurement control information.

2> for measurement type "inter-frequency measurement" that requires measurements only on the same frequency as the actually used frequency:

3> if the measurement is valid in the current RRC state of the UE:

4> resume measurements according to the new stored control information for this measurement identity.

2> for any other measurement type:

3> resume the measurements according to the new stored measurement control information.

2> for measurement type "inter-RAT measurement":

3> if "report criteria" is set to "inter-RAT measurement reporting criteria":

4> if the value of "report criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is not "inter-RAT measurement reporting criteria", or

4> if the value of "report criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is "inter-RAT measurement reporting criteria" and if the IE "Parameters required for each event" is present:

5> replace the IE "report criteria" (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE "report criteria" received in the MEASUREMENT CONTROL message.

3> if "report criteria" is not set to "inter-RAT measurement reporting criteria":

4> replace the IE "report criteria" (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE "report criteria" received in the MEASUREMENT CONTROL message.

2> for measurement type "UE positioning measurement":

3> if "reporting criteria" is set to "UE positioning reporting criteria":

4> if the value of "reporting criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is not "UE positioning reporting criteria", or

4> if the value of "reporting criteria" stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is "UE positioning reporting criteria" and if the IE "Parameters required for each event" is present:

5> replace the IE "reporting criteria" (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE "report criteria" received in the MEASUREMENT CONTROL message.

3> if "reporting criteria" is not set to "UE positioning reporting criteria":

4> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

2> for measurement type "traffic volume measurement":

3> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

2> for measurement type "quality measurement":

3> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message;

3> if “report criteria” is set to “quality measurement reporting criteria”:

4> if the value of “BLER reporting” in any instance of the IE “Quality reporting quantity” stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message is set to TRUE:

5> the UE behaviour is unspecified.

2> for measurement type "UE internal measurement":

3> if “report criteria” is set to “UE internal measurement reporting criteria”:

4> if the value of “report criteria” stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is not “UE internal measurement reporting criteria”, or

4> if the value of “report criteria” stored in the variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" is “UE internal measurement reporting criteria” and if the IE “Parameters sent for each UE internal measurement event” is present:

5> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

3> if “report criteria” is not set to “UE internal measurement reporting criteria”:

4> replace the IE “report criteria” (and all its children) stored in variable MEASUREMENT_IDENTITY associated to the identity indicated by the IE "measurement identity" with the IE “report criteria” received in the MEASUREMENT CONTROL message.

1> if the IE "measurement command" has the value "release":

2> terminate the measurement associated with the identity given in the IE "measurement identity";

2> clear all stored measurement control information related associated to this measurement identity in variable MEASUREMENT_IDENTITY.

1> if the IE "DPCH Compressed Mode Status Info" is present:

2> if, as the result of this message, UE will have more than one transmission gap pattern sequence with the same measurement purpose active (according to IEs "TGMP" and "Current TGPS Status Flag" in variable TGPS_IDENTITY):

3> set the variable CONFIGURATION_INCOMPLETE to TRUE.

2> if there is any pending "TGPS reconfiguration CFN" or any pending "TGCFN":

3> the UE behaviour is unspecified.

2> if there is a pending "activation time" for a reconfiguration procedure that included the IE "DPCH Compressed mode info":

3> the UE behaviour is unspecified.

2> if pattern sequence corresponding to IE "TGPSI" is already active (according to "Current TGPS Status Flag") in the variable TGPS_IDENTITY):

3> if the "TGPS Status Flag" in this message is set to "deactivate" for the corresponding pattern sequence:

4> deactivate this pattern sequence at the beginning of the frame indicated by IE "TGPS reconfiguration CFN" received in the message;

4> set the "Current TGPS Status Flag" for this pattern sequence in the variable TGPS_IDENTITY to "inactive" at the frame indicated by IE "TGPS reconfiguration CFN" received in the message.

3> if the "TGPS Status Flag" in this message is set to "activate" for the corresponding pattern sequence:

4> deactivate this pattern sequence at the beginning of the frame indicated by IE "TGPS reconfiguration CFN" received in the message.

NOTE1: The temporary deactivation of pattern sequences for which the status flag is set to "activate" can be used by the network to align the timing of already active patterns with newly activated patterns.

NOTE2: The deactivation of pattern sequences only occurs as a result of RRC messages received by the UE, i.e. the UE does not set the "Current TGPS Status Flag" to "inactive" after the final gap of a finite length pattern sequence.

2> after the time indicated by IE "TGPS reconfiguration CFN" has elapsed:

3> activate the pattern sequence corresponding to each IE "TGPSI" for which the "TGPS status flag" in this message is set to "activate" at the time indicated by IE "TGCFN"; and

3> set the corresponding "Current TGPS status flag" for this pattern sequence in the variable TGPS_IDENTITY to "active"; and

3> begin the inter-frequency and/or inter-RAT measurements corresponding to the pattern sequence measurement purpose of each activated pattern sequence;

3> if the values of IE "TGPS reconfiguration CFN" and IE "TGCFN" are equal:

4> start the concerned pattern sequence immediately at that CFN.

2> not alter pattern sequences stored in variable TGPS_IDENTITY, if the pattern sequence is not identitifed in IE "TGPSI" in the received message.

1> if the UE in CELL_FACH state receives a MEASUREMENT CONTROL message, which indicates the same measurement identity as that stored in the variable MEASUREMENT_IDENTITY:

2> update the stored information with the traffic volume measurement control information in variable MEASUREMENT_IDENTITY; and

2> refrain from updating the traffic volume measurement control information associated with this measurement identity in the variable MEASUREMENT_IDENTITY with the information received in System Information Block type 12 (or System Information Block type 11, according to subclause 8.1.1.6.11) until this measurement is explicitly released with another MEASUREMENT CONTROL message.

1> if the IE "Read SFN indicator" included in the IE "Cell info" of an inter-frequency cell is set to TRUE and the variable UE_CAPABILITY_TRANSFERRED has the DL "Measurement capability" for "FDD measurements" set to TRUE (the UE requires DL compressed mode in order to perform measurements on FDD):

2> set the variable CONFIGURATION_INCOMPLETE to TRUE.

1> clear the entry for the MEASUREMENT CONTROL message in the table "Accepted transactions" in the variable TRANSACTIONS.

The UE may:

1> if the IE "Measurement command" has the value "setup":

2> for measurement type "UE positioning measurement":

3> if the UE is CELL_FACH state:

4> if IE "Positioning Method" is set to "GPS":

5> if IE "UE positioning GPS assistance data" is not included and variable UE_POSITIONING_GPS_DATA is empty:

6> if System Information Block types 15, 15.1, 15.2 and 15.3 are broadcast:

7> read System Information Block types 15, 15.1, 15.2 and 15.3.

6> act as specified in subclause 8.6.7.19.3.

1> and the procedure ends.

3GPP TSG RAN2#47
Athens, Greece, 9-13 May, 2005

Tdoc ⌘R2-051542

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.331** **CR** **2571** ⌘ **rev** **-** ⌘ Current version: **5.12.1** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☒ Core Network ☐

Title:	⌘	CTFC calculation for DCH
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	May 2005
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	In case UE is configured with one or more RBs that have more than one RB multiplexing option, it is currently not clear if all configured TrCHs, or only TrCHs used by the *selected* RB multiplexing option, shall belong to the Transport Format Combination, and therefore considered when calculating the CTFC (Calculated Transport Format Combination). As an example, we consider a RB that has two multiplexing options: "HS-DSCH" and "DCH". Currently, it is not clear in section 14.10 that also in case the "HS-DSCH" multiplexing option is used, the DCH (although not actually "used") shall belong to the transport format combination of the CCTrCH, and thus considered when calculating the CTFC.
Summary of change:	⌘	It is clarified that all configured DCH transport channels are included in the transport format combination. **Isolated Impact Analysis** Functionality corrected: RB configuration Isolated impact statement: Correction to a function where specifications are incomplete. Different implementations in UE and UTRAN leads to mismatch in TFCI mapping. **Implementation of this CR by a R99/Rel-4 UE, will not cause backwards compatibility issues.**
Consequences if not approved:	⌘	Risk for different implementations in UE and UTRAN, leading to mismatch in TFCI mapping.

Clauses affected:	⌘	14.10			
		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

How to create CRs using this form:

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1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

14.10 Calculated Transport Format Combination

The Calculated Transport Format Combination (CTFC) is a tool for efficient signalling of transport format combinations.

Let *I* be the number of transport channels that are included in the transport format combination. For DCHs, all configured DCHs are included in the transport format combination. Each transport channel $TrCH_i$, i = 1, 2, …, I, has L_i transport formats, i.e. the transport format indicator TFI_i can take L_i values, $TFI_i \in \{0,1,2,...,L_i - 1\}$.

Define $P_i = \prod_{j=0}^{i-1} L_j$ *, where i = 1, 2, …, I, and* $L_0 = 1$.

Let $TFC(TFI_1, TFI_2, \ldots, TFI_I)$ be the transport format combination for which $TrCH_1$ has transport format TFI_1, $TrCH_2$ has transport format TFI_2, etc. The corresponding $CTFC(TFI_1, TFI_2, \ldots, TFI_I)$ is then computed as:

$$CTFC(TFI_1, TFI_2, \mathrm{K}, TFI_I) = \sum_{i=1}^{I} TFI_i \cdot P_i .$$

For FACH and PCH transport channels, "$TrCH_1$" corresponds to the transport channel listed at the first position in IE "FACH/PCH information" in IE "Secondary CCPCH System Information", "$TrCH_2$" corresponds to the transport channel listed at the second position in IE "FACH/PCH information" and so on.

For all other transport channels in FDD and for all configured transport channels of the same transport channel type (i.e. DCH, DSCH, USCH) in TDD, "$TrCH_1$" corresponds to the transport channel having the lowest transport channel identity in the transport format combination mapped to the TFCI field. "$TrCH_2$" corresponds to the transport channel having the next lowest transport channel identity, and so on.

3GPP TSG RAN2#47
Athens, Greece, 9-13 May, 2005

Tdoc ⌘R2-051543

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.331** **CR** **2572** ⌘ **rev** **-** ⌘ Current version: **6.5.0** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	CTFC calculation for DCH
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	May 2005
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
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Use one of the following releases:

Ph2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
Rel-4	*(Release 4)*
Rel-5	*(Release 5)*
Rel-6	*(Release 6)*
Rel-7	*(Release 7)*

Reason for change:	⌘	In case UE is configured with one or more RBs that have more than one RB multiplexing option, it is currently not clear if all configured TrCHs, or only TrCHs used by the *selected* RB multiplexing option, shall belong to the Transport Format Combination, and therefore considered when calculating the CTFC (Calculated Transport Format Combination). As an example, we consider a RB that has two multiplexing options: “HS-DSCH” and “DCH”. Currently, it is not clear in section 14.10 that also in case the “HS-DSCH” multiplexing option is used, the DCH (although not actually “used”) shall belong to the transport format combination of the CCTrCH, and thus considered when calculating the CTFC.
Summary of change:	⌘	It is clarified that all configured DCH transport channels are included in the transport format combination. **Isolated Impact Analysis** Functionality corrected: RB configuration Isolated impact statement: Correction to a function where specifications are incomplete. Different implementations in UE and UTRAN leads to mismatch in TFCI mapping. **Implementation of this CR by a R99/Rel-4 UE, will not cause backwards compatibility issues.**
Consequences if not approved:	⌘	Risk for different implementations in UE and UTRAN, leading to mismatch in TFCI mapping.

Clauses affected:	⌘	14.10			
		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

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Let *I* be the number of transport channels that are included in the transport format combination. For DCHs, all configured DCHs are included in the transport format combination. Each transport channel $TrCH_i$, i = 1, 2, …, I, has L_i transport formats, i.e. the transport format indicator TFI_i can take L_i values, $TFI_i \in \{0,1,2,...,L_i - 1\}$.

Define $P_i = \prod_{j=0}^{i-1} L_j$ *, where i = 1, 2, …, I, and* $L_0 = 1$.

Let $TFC(TFI_1, TFI_2, \ldots, TFI_I)$ be the transport format combination for which $TrCH_1$ has transport format TFI_1, $TrCH_2$ has transport format TFI_2, etc. The corresponding $CTFC(TFI_1, TFI_2, \ldots, TFI_I)$ is then computed as:

$$CTFC(TFI_1, TFI_2, \mathrm{K}, TFI_I) = \sum_{i=1}^{I} TFI_i \cdot P_i .$$

For FACH and PCH transport channels, "$TrCH_1$" corresponds to the transport channel listed at the first position in IE "FACH/PCH information" in IE "Secondary CCPCH System Information", "$TrCH_2$" corresponds to the transport channel listed at the second position in IE "FACH/PCH information" and so on.

For all other transport channels in FDD and for all configured transport channels of the same transport channel type (i.e. DCH, DSCH, USCH) in TDD, "$TrCH_1$" corresponds to the transport channel having the lowest transport channel identity in the transport format combination mapped to the TFCI field. "$TrCH_2$" corresponds to the transport channel having the next lowest transport channel identity, and so on.

3GPP TSG-RAN WG2 Meeting #47
Athens, Greece, 9th-13th May 2005

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CHANGE REQUEST

⌘ **25.331** **CR** **2573** ⌘ **rev** **-** ⌘ Current version: **5.12.1** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	Default RB identity in IE 'Signalling RB information to setup'
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	11/04/2005
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change: ⌘

The IE 'Signalling RB information to setup' contains an MD IE 'RB identity' with the default value describe in section 8.6.4.1 as:

> 1> apply a default value of the IE "RB identity" equal to 1 for the first IE "Signalling RB information to setup"; and
>
> 1> increase the default value by 1 for each occurrence.

Within the ASN.1 the IE is optional and the ASN.1 contains a comment which states, 'The default value for rb-Identity is the smallest value not used yet.' In some situations these different requirements conflict with each other.

When the IE is used within a RRC Connection Setup message or a Handover to UTRAN Command and the IE 'RB identity' is omitted then both requirements will result in the same outcome.

However, if the IE is used in a RB Setup Message or Cell Update Confirm message to add SRB4 (if not previously setup) or TM-SRB and the RB identity is not included then the two requirements would result in different behaviour. According to the text in section 8.6.4.1 the new SRB would be setup with RB identity 1 which obviously result in unpredictable UE behaviour. According to the text in section 11.3 the new SRB would be setup with RB identity 4 or 5. For this reason the interpretation according to 11.3 seems to be the most sensible.

The conflicting requirements can easily be avoided by the network by including the IE 'RB identity' in all cases except RRC Connection Setup or Handover to UTRAN Command.

Summary of change:	⌘	It is proposed to add a note to the specification to state that the UTRAN should only use the default value for the RB Identity in the case of RRC Connection Setup or Handover from UTRAN command otherwise the UE behaviour is not specified. **Isolated Impact Analysis** Functionality corrected: Signalling radio bearer setup Isolated impact statement: Correction to a function where specification was containing some contradiction. Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. *A Release 99/4 UE can expect the behaviour described by this CR from the UTRAN.*
Consequences if not approved:	⌘	If the CR is not approved then some UTRAN implementation may rely on the default value of the RB Identity when setting up SRB4 or TM-SRB during an RRC connection. If uses the default value handing according to section 11 and the UE uses the default value handling according to section 8 then the UE behaviour is not predictable. Potentially the call may be dropped.

Clauses affected:	⌘	8.6.4.1			
Other specs affected:	⌘	**Y** / **N**		⌘	
			N Other core specifications		
			N Test specifications		
			N O&M Specifications		
Other comments:	⌘				

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8.6.4.1 Signalling RB information to setup list

If the IE "Signalling RB information to setup list" is included the UE shall:

1> use the same START value to initialise the COUNT-C and COUNT-I variables for all the signalling radio bearers in the list;

1> if the IE "Signalling RB information to setup list" was included in the RADIO BEARER SETUP message:

2> if the variable LATEST_CONFIGURED_CN_DOMAIN has been initialised:

3> calculate the START value only once during this procedure according to subclause 8.5.9 for the CN domain indicated in the variable LATEST_CONFIGURED_CN_DOMAIN;

3> store the calculated START value in the variable START_VALUE_TO_TRANSMIT.

1> for each occurrence of the IE "Signalling RB information to setup":

2> use the value of the IE "RB identity" as the identity of the signalling radio bearer to setup;

2> if the signalling radio bearer identified with the IE "RB identity" does not exist in the variable ESTABLISHED_RABS:

3> create a new entry for the signalling radio bearer in the variable ESTABLISHED_RABS.

2> if the IE "Signalling RB information to setup list" was received in a message other than HANDOVER TO UTRAN COMMAND; and

2> if the variable LATEST_CONFIGURED_CN_DOMAIN has been initialised and the value "STATUS" of the variable CIPHERING_STATUS of the CN domain stored in this variable is "Started":

3> if the IE "Uplink RLC mode" or the IE "Downlink RLC mode" either in the IE "RLC info" or referenced by the RB identity in the IE "Same as RB" is set to "AM RLC" or "UM RLC":

4> initialise the 20 MSB of the hyper frame number component of COUNT-C for this signalling radio bearer with the START value in the variable START_VALUE_TO_TRANSMIT;

4> set the remaining LSB of the hyper frame number component of COUNT-C for this signalling radio bearer to zero;

4> start to perform ciphering on this signalling radio bearer, using the value of the IE "RB identity" minus one as the value of BEARER in the ciphering algorithm.

2> if the IE "Signalling RB information to setup list" was received in a message other than HANDOVER TO UTRAN COMMAND; and

2> if the variable LATEST_CONFIGURED_CN_DOMAIN has been initialised and the value "Status" of the variable "INTEGRITY_PROTECTION_INFO" of the CN domain stored in this variable is "Started":

3> initialise the 20 MSB of the hyper frame number component of COUNT-I for this signalling radio bearer with the START value in the variable START_VALUE_TO_TRANSMIT;

3> set the remaining LSB of the hyper frame number component of COUNT-I for this signalling radio bearer to zero;

3> for this signalling radio bearer, set the IE "Uplink RRC Message sequence number" in the variable INTEGRITY_PROTECTION_INFO to zero;

3> start performing integrity protection according to subclauses 8.5.10.1 and 8.5.10.2.

2> perform the actions for the IE "RLC info" as specified in subclause 8.6.4.9, applied for that signalling radio bearer;

2> perform the actions for the IE "RB mapping info" as specified in subclause 8.6.4.8, applied for that signalling radio bearer.

1> apply a default value of the IE "RB identity" equal to 1 for the first IE "Signalling RB information to setup"; and

1> increase the default value by 1 for each occurrence.

NOTE: The UTRAN should only use the default value of the IE "RB identity" within the RRC Connection Setup and Handover to UTRAN Command messages. If the default value of the IE "RB identity" is used in any other message then the UE behaviour is not specified.

10.3.4.24 Signalling RB information to setup

Information Element/Group name	Need	Multi	Type and reference	Semantics description
RB identity	MD		RB identity 10.3.4.16	Default value is specified in subclause 8.6.4.1
CHOICE *RLC info type*	MP			
>RLC info			RLC info 10.3.4.23	
>Same as RB			RB identity 10.3.4.16	Identity of RB with exactly the same RLC info IE values
RB mapping info	MP		RB mapping info 10.3.4.21	

NOTE: This information element is included within IE "Predefined RB configuration".

11.3 Information element definitions

```
SRB-InformationSetup ::=            SEQUENCE {
    -- The default value for rb-Identity is the smallest value not used yet.
    rb-Identity                         RB-Identity                         OPTIONAL,
    rlc-InfoChoice                      RLC-InfoChoice,
    rb-MappingInfo                      RB-MappingInfo
}

SRB-InformationSetup-r5 ::=         SEQUENCE {
    -- The default value for rb-Identity is the smallest value not used yet.
    rb-Identity                         RB-Identity                         OPTIONAL,
    rlc-InfoChoice                      RLC-InfoChoice-r5,
    rb-MappingInfo                      RB-MappingInfo-r5
}
```

3GPP TSG-RAN WG2 Meeting #47
Athens, Greece, 9th-13th May 2005

Tdoc ⌘R2-051545

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.331** **CR** **2574** ⌘ **rev** **-** ⌘ Current version: **6.5.0** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	Default RB identity in IE 'Signalling RB information to setup'
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	11/04/2005
Category:	⌘	**A**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change: ⌘

The IE 'Signalling RB information to setup' contains an MD IE 'RB identity' with the default value describe in section 8.6.4.1 as:

> 1> apply a default value of the IE "RB identity" equal to 1 for the first IE "Signalling RB information to setup"; and
>
> 1> increase the default value by 1 for each occurrence.

Within the ASN.1 the IE is optional and the ASN.1 contains a comment which states, 'The default value for rb-Identity is the smallest value not used yet.' In some situations these different requirements conflict with each other.

When the IE is used within a RRC Connection Setup message or a Handover to UTRAN Command and the IE 'RB identity' is omitted then both requirements will result in the same outcome.

However, if the IE is used in a RB Setup Message or Cell Update Confirm message to add SRB4 (if not previously setup) or TM-SRB and the RB identity is not included then the two requirements would result in different behaviour. According to the text in section 8.6.4.1 the new SRB would be setup with RB identity 1 which obviously result in unpredictable UE behaviour. According to the text in section 11.3 the new SRB would be setup with RB identity 4 or 5. For this reason the interpretation according to 11.3 seems to be the most sensible.

The conflicting requirements can easily be avoided by the network by including the IE 'RB identity' in all cases except RRC Connection Setup or Handover to UTRAN Command.

Summary of change:	⌘	It is proposed to add a note to the specification to state that the UTRAN should only use the default value for the RB Identity in the case of RRC Connection Setup or Handover from UTRAN command otherwise the UE behaviour is not specified. **Isolated Impact Analysis** Functionality corrected: Signalling radio bearer setup Isolated impact statement: Correction to a function where specification was containing some contradiction. Would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise. *A Release 99/4 UE can expect the behaviour described by this CR from the UTRAN.*
Consequences if not approved:	⌘	If the CR is not approved then some UTRAN implementation may rely on the default value of the RB Identity when setting up SRB4 or TM-SRB during an RRC connection. If uses the default value handing according to section 11 and the UE uses the default value handling according to section 8 then the UE behaviour is not predictable. Potentially the call may be dropped.

Clauses affected:	⌘	8.6.4.1			
Other specs affected:	⌘	**Y** / **N**		⌘	
			N Other core specifications		
			N Test specifications		
			N O&M Specifications		
Other comments:	⌘				

How to create CRs using this form:

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

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

8.6.4.1 Signalling RB information to setup list

If the IE "Signalling RB information to setup list" is included the UE shall:

1> use the same START value to initialise the COUNT-C and COUNT-I variables for all the signalling radio bearers in the list;

1> if the IE "Signalling RB information to setup list" was included in the RADIO BEARER SETUP message:

2> if the variable LATEST_CONFIGURED_CN_DOMAIN has been initialised:

3> calculate the START value only once during this procedure according to subclause 8.5.9 for the CN domain indicated in the variable LATEST_CONFIGURED_CN_DOMAIN;

3> store the calculated START value in the variable START_VALUE_TO_TRANSMIT.

1> for each occurrence of the IE "Signalling RB information to setup":

2> use the value of the IE "RB identity" as the identity of the signalling radio bearer to setup;

2> if the signalling radio bearer identified with the IE "RB identity" does not exist in the variable ESTABLISHED_RABS:

3> create a new entry for the signalling radio bearer in the variable ESTABLISHED_RABS.

2> if the IE "Signalling RB information to setup list" was received in a message other than HANDOVER TO UTRAN COMMAND; and

2> if the variable LATEST_CONFIGURED_CN_DOMAIN has been initialised and the value "STATUS" of the variable CIPHERING_STATUS of the CN domain stored in this variable is "Started":

3> if the IE "Uplink RLC mode" or the IE "Downlink RLC mode" either in the IE "RLC info" or referenced by the RB identity in the IE "Same as RB" is set to "AM RLC" or "UM RLC":

4> initialise the 20 MSB of the hyper frame number component of COUNT-C for this signalling radio bearer with the START value in the variable START_VALUE_TO_TRANSMIT;

4> set the remaining LSB of the hyper frame number component of COUNT-C for this signalling radio bearer to zero;

4> start to perform ciphering on this signalling radio bearer, using the value of the IE "RB identity" minus one as the value of BEARER in the ciphering algorithm.

2> if the IE "Signalling RB information to setup list" was received in a message other than HANDOVER TO UTRAN COMMAND; and

2> if the variable LATEST_CONFIGURED_CN_DOMAIN has been initialised and the value "Status" of the variable "INTEGRITY_PROTECTION_INFO" of the CN domain stored in this variable is "Started":

3> initialise the 20 MSB of the hyper frame number component of COUNT-I for this signalling radio bearer with the START value in the variable START_VALUE_TO_TRANSMIT;

3> set the remaining LSB of the hyper frame number component of COUNT-I for this signalling radio bearer to zero;

3> for this signalling radio bearer, set the IE "Uplink RRC Message sequence number" in the variable INTEGRITY_PROTECTION_INFO to zero;

3> start performing integrity protection according to subclauses 8.5.10.1 and 8.5.10.2.

2> perform the actions for the IE "RLC info" as specified in subclause 8.6.4.9, applied for that signalling radio bearer;

2> perform the actions for the IE "RB mapping info" as specified in subclause 8.6.4.8, applied for that signalling radio bearer.

1> apply a default value of the IE "RB identity" equal to 1 for the first IE "Signalling RB information to setup"; and

1> increase the default value by 1 for each occurrence.

NOTE: The UTRAN should only use the default value of the IE "RB identity" within the RRC Connection Setup and Handover to UTRAN Command messages. If the default value of the IE "RB identity" is used in any other message then the UE behaviour is not specified.

10.3.4.24 Signalling RB information to setup

Information Element/Group name	Need	Multi	Type and reference	Semantics description
RB identity	MD		RB identity 10.3.4.16	Default value is specified in subclause 8.6.4.1
CHOICE *RLC info type*	MP			
>RLC info			RLC info 10.3.4.23	
>Same as RB			RB identity 10.3.4.16	Identity of RB with exactly the same RLC info IE values
RB mapping info	MP		RB mapping info 10.3.4.21	

NOTE: This information element is included within IE "Predefined RB configuration".

11.3 Information element definitions

```
SRB-InformationSetup ::=            SEQUENCE {
    -- The default value for rb-Identity is the smallest value not used yet.
    rb-Identity                         RB-Identity                         OPTIONAL,
    rlc-InfoChoice                      RLC-InfoChoice,
    rb-MappingInfo                      RB-MappingInfo
}

SRB-InformationSetup-r5 ::=         SEQUENCE {
    -- The default value for rb-Identity is the smallest value not used yet.
    rb-Identity                         RB-Identity                         OPTIONAL,
    rlc-InfoChoice                      RLC-InfoChoice-r5,
    rb-MappingInfo                      RB-MappingInfo-r5
}
```

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Athens, Greece, 9-13 May 2005

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CR-Form-v7.1

CHANGE REQUEST

⌘ **25.331** **CR** **2575** ⌘ **rev** **-** ⌘ Current version: **5.12.1** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	Default configuration 13
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	09/05/2005
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change:	⌘	The TFI0 and TFI3 of DCH2 in the default configuration 13 use the incorrect RLC size type. Type 1 has a range of (0..127) and cannot have the value of 181. Therefore, type 2 should be used.
Summary of change:	⌘	The transport formats in default configuration 13, where size 181 is used were changed to use RLC size type 2 (part1= 6, part2= 8) in order to be coherent with the configuration 62 specified in 34.108. **Impact Analysis:** A UE that has not implemented according to this CR will require modification. A UTRAN that has not implemented according to this CR will require modification.
Consequences if not approved:	⌘	If the UE and UTRAN use different values for TFI0,3 of DCH 2, these sizes cannot be used across the air interface (default configuration 13 cannot be used) The behaviour of UE when default configuration 13 is used upon Inter-RAT Handover to UTRAN, will be unspecified. The default configuration 13 will not be according to the configuration 62 in 34.108.

Clauses affected:	⌘	13.7

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:

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

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

13.7 Parameter values for default radio configurations

The UE shall support the use of the default radio configurations that are specified in the following.

NOTE 1: These configurations are based on [41] and cover a number of RAB and signalling connection configurations.

In the table that is used to specify the parameter values for these default configurations, the following principles are used:

- Optional IEs that are not used are omitted;
- In case no parameter value is specified in a column, this means the value given the previous (left side) column applies.

NOTE 2: If needed, signalling radio bearer RB4 is established after the completion of handover.

NOTE 3: For each default configuration, the value of FDD, 3.84 Mcps TDD and 1.28 Mcps TDD parameters are specified. All parameters apply to FDD, 3.84 Mcps TDD and 1.28 Mcps TDD modes, unless explicitly stated otherwise. It should be noted that in this respect default configurations differ from pre-defined configurations, which only include parameter values for one mode.

NOTE 4: The transport format sizes, indicated in the following table, concern the RLC PDU size, since all configurations concern dedicated channels. The transport block sizes indicated in TS 34.108 are different since these include the size of the MAC header.

NOTE 5: The tabular values included in this subclause, represent the actual IE values as in clause 10, and not the ASN.1 representation of these values.

section omitted

Configuration	12.65/8.85/6.6 kbps speech + 3.4 kbps signalling
Ref 34.108	62
Default configuration identity	13
RB INFORMATION	
rb-Identity	RB1: 1, RB2: 2, RB3: 3, RB5: 5, RB6: 6, RB8: 8
rlc-InfoChoice	Rlc-info
>ul-RLC-Mode	RB1: UM RB2- RB3: AM RB5-RB6: TM
>>transmissionRLC-DiscardMode	RB1: N/A RB2- RB3: NoDiscard RB5- RB6: N/A
>>>maxDat	RB1: N/A RB2- RB3: 15 RB5- RB6: N/A
>>transmissionWindowSize	RB1: N/A RB2- RB3: 128 for UEs with more than 10 kbyte "total RLC AM buffer size" and 32 otherwise RB5- RB6: N/A
>>timerRST	RB1: N/A RB2- RB3: 300 RB5- RB6: N/A
>>max-RST	RB1: N/A RB2- RB3: 1 RB5- RB6: N/A
>>pollingInfo	RB1: N/A RB2- RB3: as below RB5- RB6: N/A
>>>lastTransmissionPDU-Poll	RB2- RB3: FALSE
>>>lastRetransmissionPDU-Poll	RB2- RB3: FALSE
>>>timerPollPeriodic	RB2- RB3: 300
>>segmentationIndication	RB1- RB3: N/A RB5- RB6: FALSE
>dl-RLC-Mode	RB1: UM RB2- RB3: AM RB5- RB6: TM RB8: TM
>>inSequenceDelivery	RB1: N/A RB2- RB3: TRUE RB5- RB6: N/A RB8: N/A
>>receivingWindowSize	RB1: N/A RB2- RB3: 128 for UEs with more than 10 kbyte "total RLC AM buffer size" and 32 otherwise RB5- RB6: N/A RB8: N/A
>>dl-RLC-StatusInfo	RB1: N/A RB2- RB3: as below RB5- RB6: N/A RB8: N/A
>>>timerStatusProhibit	RB2- RB3: 100
>>>missingPDU-Indicator	RB2- RB3: FALSE

>>>timerStatusPeriodic	RB2- RB3: 300
>>segmentationIndication	RB1- RB3: N/A RB5- RB6: FALSE RB8: FALSE
rb-MappingInfo	
>UL-LogicalChannelMappings	OneLogicalChannel
>>ul-TransportChannelType	Dch
>>>transportChannelIdentity	RB1- RB3: 4 RB5: 1, RB6: 2.
>>logicalChannelIdentity	RB1: 1, RB2: 2, RB3: 3 RB5- RB6: N/A
>>rlc-SizeList	RB1- RB3: configured RB5- RB6: N/A
>>mac-LogicalChannelPriority	RB1: 1, RB2: 2, RB3: 3 RB5- RB6: 5
>DL-logicalChannelMappingList	
>>Mapping option 1	One mapping option
>>>dl-TransportChannelType	Dch
>>>>transportChannelIdentity	RB1- RB3: 4 RB5: 1, RB6: 2, RB8: 5
>>>logicalChannelIdentity	RB1: 1, RB2: 2, RB3: 3 RB5- RB6: N/A RB8: N/A
TrCH INFORMATION PER TrCH	
UL-AddReconfTransChInfoList	
>Uplink transport channel type	dch
>transportChannelIdentity	TrCH1: 1, TrCH2: 2, TrCH4: 4
>transportFormatSet	DedicatedTransChTFS
>>dynamicTF-information	
>>>tf0/ tf0,1	TrCH1: (0x72) TrCH2: (0x 181) TrCH4: (0x144, 1x144)
>>>>rlcSize	BitMode
>>>>>sizeType	TrCH1: type 1: 72 TrCH2: type ~~1~~2: ~~181~~part1= 6, part2= 5 TrCH4: 2: type 2, part1= 2, part2= 0 (144)
>>>>numberOfTbSizeList	TrCH1-2: Zero TrCH4: Zero, one
>>>>logicalChannelList	All
>>>tf 1	TrCH1: (1x40) TrCH2: (1x 78) TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One TrCH2: One
>>>>rlc-Size	TrCH1-2: BitMode
>>>>>sizeType	TrCH1: 1: 40 TrCH2: 1: 78

>>>>numberOfTbSizeList	TrCH1-2: One
>>>>logicalChannelList	TrCH1: all
>>>tf 2	TrCH1: (1x54) TrCH2: (1x113) TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One TrCh2: One
>>>>rlc-Size	TrCH1: BitMode
>>>>>sizeType	TrCH1: type 1: 54 TrCH2: type 1: 113
>>>>numberOfTbSizeList	TrCH1: One TrCH2: One
>>>>logicalChannelList	TrCH1: all TrCH2: all
>>>tf 3	TrCH1: (1x64) TrCH2: (1x181) TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One TrCh2: One
>>>>rlc-Size	TrCH1: BitMode
>>>>>sizeType	TrCH1: type 1: 64 TrCH2: type ~~1~~2: ~~181~~part1= 6, part2= 5
>>>>numberOfTbSizeList	TrCH1: One TrCH2: One
>>>>logicalChannelList	TrCH1: all TrCH2: all
>>>tf 4	TrCH1: (1x72) TrCH2: N/A TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One
>>>>rlc-Size	TrCH1: BitMode
>>>>>sizeType	TrCH1: type 1: 72
>>>>numberOfTbSizeList	TrCH1: One
>>>>logicalChannelList	TrCH1: all
>>semistaticTF-Information	
>>>tti	TrCH1- TrCH2: 20 TrCH4: 40
>>>channelCodingType	Convolutional
>>>>codingRate	TrCH1- TrCH2: Third TrCH4: Third
>>>rateMatchingAttribute	TrCH1: 200 TrCH2: 190 TrCH4: 170
>>>crc-Size	TrCH1: 12 TrCH2: 0 TrCH4: 16
DL-AddReconfTransChInfoList	
>Downlink transport channel type	dch
>dl-TransportChannelIdentity	
>tfs-SignallingMode	Independent <Only tf0 on TrCH1 and tf0/tf1 on TrCH5 are different and shown below>
>>transportFormatSet	
>>>dynamicTF-information	
>>>>tf0/ tf0,1	TrCH1: (1x0) TrCH5: (0x3, 1x3)
>>>>rlcSize	BitMode

>>>>>sizeType	TrCH1: type 1: 0 TrCH5: type 1: 3
>>>>numberOfTbSizeList	TrCH1: One TrCH5: Zero, one
>>>>logicalChannelList	All
>>>semistaticTF-Information	same as UL except for TrCH5
>>>>tti	TrCH5: 20
>>>>channelCodingType	Convolutional
>>>>>codingRate	TrCH5: Third
>>>>rateMatchingAttribute	TrCH5: 205
>>>>crc-Size	TrCH5: 8
>>ULTrCH-Id	TrCH1: 1, TrCH2: 2, TrCH4: 4,
>dch-QualityTarget	
>>bler-QualityValue	TrCH1: $7x10^{-3}$ TrCH2: Absent TrCH4- TrCH5: Absent
TrCH INFORMATION, COMMON	
ul-CommonTransChInfo	
>tfcs-ID (TDD only)	1
>sharedChannelIndicator (TDD only)	FALSE
> tfc-Subset	Absent, not required
>ul-TFCS	Normal TFCI signalling
>>explicitTFCS-ConfigurationMode	Complete
>>>ctfcSize	Ctfc6Bit
>>>>TFCS representation	Addition
>>>>>TFC list	
>>>>>>TFC 1	(TF0, TF0, TF0)
>>>>>>>ctfc	0
>>>>>>>gainFactorInformation	Computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 2	(TF1, TF0, TF0)
>>>>>>>ctfc	1
>>>>>>>gainFactorInformation	Computed
>>>>>>>>βc (FDD only)	N/A
>>>>>>>>βd	N/A
>>>>>>>>referenceTFCId	0
>>>>>>TFC 3	(TF2, TF1, TF0)
>>>>>>>ctfc	7
>>>>>>>gainFactorInformation	Computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 4	(TF3, TF2, TF0)
>>>>>>>ctfc	13
>>>>>>>gainFactorInformation	Computed
>>>>>>>>βc (FDD only)	
>>>>>>>>βd	
>>>>>>>>referenceTFCId	0
>>>>>>TFC 5	(TF4, TF3, TF0)
>>>>>>>ctfc	19
>>>>>>>gainFactorInformation	Computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 6	(TF0, TF0, TF1)
>>>>>>>ctfc	20

>>>>>>>gainFactorInformation	Computed
>>>>>>>>βc (FDD only)	
>>>>>>>>βd	
>>>>>>>>referenceTFCId	0
>>>>>>TFC 7	(TF1, TF0, TF1)
>>>>>>>ctfc	21
>>>>>>>gainFactorInformation	Computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 8	(TF2, TF1, TF1)
>>>>>>>ctfc	27
>>>>>>>gainFactorInformation	computed
>>>>>>>>βc (FDD only)	
>>>>>>>>βd	
>>>>>>>>referenceTFCId	0
>>>>>>TFC 9	(TF3, TF2, TF1)
>>>>>>>ctfc	33
>>>>>>>gainFactorInformation	computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 10	(TF4, TF3, TF1)
>>>>>>>ctfc	39
>>>>>>>gainFactorInformation	signalled
>>>>>>>>βc (FDD only)	11
>>>>>>>>βd	15
>>>>>>>>referenceTFCId	0
> TFC subset list	
>>TFC subset 1	(speech rate 6.6)
>>> Allowed transport format combination list	(TFC1, TFC2, TFC3, TFC6, TFC7, TFC8)
>>TFC subset 2	(speech rate 8.85)
>>> Allowed transport format combination list	(TFC1, TFC2, TFC3, TFC4, TFC6, TFC7, TFC8, TFC9)
>>TFC subset 3	(speech rate 12.65)
>>> Allowed transport format combination list	(TFC1, TFC2, TFC3, TFC4, TFC5, TFC6, TFC7, TFC8, TFC9, TFC10)
dl-CommonTransChInfo	
>tfcs-SignallingMode	Independent
ul-CommonTransChInfo	
>tfcs-ID (TDD only)	1
>sharedChannelIndicator (TDD only)	FALSE
> tfc-Subset	Absent, not required
>dl-TFCS	Normal TFCI signalling
>>explicitTFCS-ConfigurationMode	Complete
>>>ctfcSize	Ctfc8Bit
>>>>TFCS representation	Addition
>>>>>TFCS list	
>>>>>>TFC 1	(TF0, TF0, TF0, TF0)
>>>>>>>ctfc	0
>>>>>>TFC 2	(TF1, TF0, TF0, TF0)
>>>>>>>ctfc	1

>>>>>>TFC 3	(TF2, TF1, TF0, TF0)
>>>>>>>ctfc	7
>>>>>>TFC 4	(TF3, TF2, TF0, TF0)
>>>>>>>ctfc	13
>>>>>>TFC 5	(TF4, TF3, TF0, TF0)
>>>>>>>ctfc	19
>>>>>>TFC 6	(TF0, TF0, TF1, TF0)
>>>>>>>ctfc	20
>>>>>>TFC 7	(TF1, TF0, TF1, TF0)
>>>>>>>ctfc	21
>>>>>>TFC 8	(TF2, TF1, TF1, TF0)
>>>>>>>ctfc	27
>>>>>>TFC 9	(TF3, TF2, TF1, TF0)
>>>>>>>ctfc	33
>>>>>>TFC 10	(TF4, TF3, TF1, TF0)
>>>>>>>ctfc	39
>>>>>>TFC 11	(TF0, TF0, TF0, TF1)
>>>>>>>ctfc	40
>>>>>>TFC 12	(TF1, TF0, TF0, TF1)
>>>>>>>ctfc	41
>>>>>>TFC 13	(TF2, TF1, TF0, TF1)
>>>>>>>ctfc	47
>>>>>>TFC 14	(TF3, TF2, TF0, TF1)
>>>>>>>ctfc	53
>>>>>>TFC 15	(TF4, TF3, TF0, TF1)
>>>>>>>ctfc	59
>>>>>>TFC 16	(TF0, TF0, TF1, TF1)
>>>>>>>ctfc	60
>>>>>>TFC 17	(TF1, TF0, TF1, TF1)
>>>>>>>ctfc	61
>>>>>>TFC 18	(TF2, TF1, TF1, TF1)
>>>>>>>ctfc	67
>>>>>>TFC 19	(TF3, TF2, TF1, TF1)
>>>>>>>ctfc	73
>>>>>>TFC 20	(TF4, TF3, TF1, TF1)
>>>>>>>ctfc	79
PhyCH INFORMATION FDD	
UL-DPCH-InfoPredef	
>ul-DPCH-PowerControlInfo	
>>powerControlAlgorithm	Algorithm 1
>>>tpcStepSize	1 dB
>tfci-Existence	TRUE
>puncturingLimit	0.84
DL-CommonInformationPredef	

>dl-DPCH-InfoCommon	
>>spreadingFactor	128
>>tfci-Existence	FALSE
>>pilotBits	4
>>positionFixed	Fixed

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Tdoc ⌘R2-051547

CR-Form-v7.1

CHANGE REQUEST

⌘ **25.331** **CR** **2576** ⌘ **rev** **-** ⌘ Current version: **6.5.0** ⌘

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

Proposed change affects: UICC apps⌘ [ ] ME [X] Radio Access Network [X] Core Network [ ]

Title:	⌘	Default configuration 13
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	09/05/2005
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change:	⌘	The TFI0 and TFI3 of DCH2 in the default configuration 13 use the incorrect RLC size type. Type 1 has a range of (0..127) and cannot have the value of 181. Therefore, type 2 should be used.
Summary of change:	⌘	The transport formats in default configuration 13, where size 181 is used were changed to use RLC size type 2 (part1= 6, part2= 8) in order to be coherent with the configuration 62 specified in 34.108. **Impact Analysis:** A UE that has not implemented according to this CR will require modification. A UTRAN that has not implemented according to this CR will require modification.
Consequences if not approved:	⌘	If the UE and UTRAN use different values for TFI0,3 of DCH 2, these sizes cannot be used across the air interface (default configuration 13 cannot be used) The behaviour of UE when default configuration 13 is used upon Inter-RAT Handover to UTRAN, will be unspecified. The default configuration 13 will not be according to the configuration 62 in 34.108.

Clauses affected:	⌘	13.7

		Y	N		
Other specs Affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments: ⌘

How to create CRs using this form:

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

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

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

13.7 Parameter values for default radio configurations

The UE shall support the use of the default radio configurations that are specified in the following.

NOTE 1: These configurations are based on [41] and cover a number of RAB and signalling connection configurations.

In the table that is used to specify the parameter values for these default configurations, the following principles are used:

- Optional IEs that are not used are omitted;
- In case no parameter value is specified in a column, this means the value given the previous (left side) column applies.

NOTE 2: If needed, signalling radio bearer RB4 is established after the completion of handover.

NOTE 3: For each default configuration, the value of FDD, 3.84 Mcps TDD and 1.28 Mcps TDD parameters are specified. All parameters apply to FDD, 3.84 Mcps TDD and 1.28 Mcps TDD modes, unless explicitly stated otherwise. It should be noted that in this respect default configurations differ from pre-defined configurations, which only include parameter values for one mode.

NOTE 4: The transport format sizes, indicated in the following table, concern the RLC PDU size, since all configurations concern dedicated channels. The transport block sizes indicated in TS 34.108 are different since these include the size of the MAC header.

NOTE 5: The tabular values included in this subclause, represent the actual IE values as in clause 10, and not the ASN.1 representation of these values.

section omitted

Configuration	12.65/8.85/6.6 kbps speech + 3.4 kbps signalling
Ref 34.108	62
Default configuration identity	13
RB INFORMATION	
rb-Identity	RB1: 1, RB2: 2, RB3: 3, RB5: 5, RB6: 6, RB8: 8
rlc-InfoChoice	Rlc-info
>ul-RLC-Mode	RB1: UM RB2- RB3: AM RB5-RB6: TM
>>transmissionRLC-DiscardMode	RB1: N/A RB2- RB3: NoDiscard RB5- RB6: N/A
>>>maxDat	RB1: N/A RB2- RB3: 15 RB5- RB6: N/A
>>transmissionWindowSize	RB1: N/A RB2- RB3: 128 for UEs with more than 10 kbyte "total RLC AM buffer size" and 32 otherwise RB5- RB6: N/A
>>timerRST	RB1: N/A RB2- RB3: 300 RB5- RB6: N/A
>>max-RST	RB1: N/A RB2- RB3: 1 RB5- RB6: N/A
>>pollingInfo	RB1: N/A RB2- RB3: as below RB5- RB6: N/A
>>>lastTransmissionPDU-Poll	RB2- RB3: FALSE
>>>lastRetransmissionPDU-Poll	RB2- RB3: FALSE
>>>timerPollPeriodic	RB2- RB3: 300
>>segmentationIndication	RB1- RB3: N/A RB5- RB6: FALSE
>dl-RLC-Mode	RB1: UM RB2- RB3: AM RB5- RB6: TM RB8: TM
>>inSequenceDelivery	RB1: N/A RB2- RB3: TRUE RB5- RB6: N/A RB8: N/A
>>receivingWindowSize	RB1: N/A RB2- RB3: 128 for UEs with more than 10 kbyte "total RLC AM buffer size" and 32 otherwise RB5- RB6: N/A RB8: N/A
>>dl-RLC-StatusInfo	RB1: N/A RB2- RB3: as below RB5- RB6: N/A RB8: N/A
>>>timerStatusProhibit	RB2- RB3: 100
>>>missingPDU-Indicator	RB2- RB3: FALSE

>>>timerStatusPeriodic	RB2- RB3: 300
>>segmentationIndication	RB1- RB3: N/A RB5- RB6: FALSE RB8: FALSE
rb-MappingInfo	
>UL-LogicalChannelMappings	OneLogicalChannel
>>ul-TransportChannelType	Dch
>>>transportChannelIdentity	RB1- RB3: 4 RB5: 1, RB6: 2.
>>logicalChannelIdentity	RB1: 1, RB2: 2, RB3: 3 RB5- RB6: N/A
>>rlc-SizeList	RB1- RB3: configured RB5- RB6: N/A
>>mac-LogicalChannelPriority	RB1: 1, RB2: 2, RB3: 3 RB5- RB6: 5
>DL-logicalChannelMappingList	
>>Mapping option 1	One mapping option
>>>dl-TransportChannelType	Dch
>>>>transportChannelIdentity	RB1- RB3: 4 RB5: 1, RB6: 2, RB8: 5
>>>logicalChannelIdentity	RB1: 1, RB2: 2, RB3: 3 RB5- RB6: N/A RB8: N/A
TrCH INFORMATION PER TrCH	
UL-AddReconfTransChInfoList	
>Uplink transport channel type	dch
>transportChannelIdentity	TrCH1: 1, TrCH2: 2, TrCH4: 4
>transportFormatSet	DedicatedTransChTFS
>>dynamicTF-information	
>>>tf0/ tf0,1	TrCH1: (0x72) TrCH2: (0x 181) TrCH4: (0x144, 1x144)
>>>>rlcSize	BitMode
>>>>>sizeType	TrCH1: type 1: 72 TrCH2: type ~~1~~2: ~~181~~part1= 6, part2= 5 TrCH4: 2: type 2, part1= 2, part2= 0 (144)
>>>>numberOfTbSizeList	TrCH1-2: Zero TrCH4: Zero, one
>>>>logicalChannelList	All
>>>tf 1	TrCH1: (1x40) TrCH2: (1x 78) TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One TrCH2: One
>>>>rlc-Size	TrCH1-2: BitMode
>>>>>sizeType	TrCH1: 1: 40 TrCH2: 1: 78

>>>>numberOfTbSizeList	TrCH1-2: One
>>>>logicalChannelList	TrCH1: all
>>>tf 2	TrCH1: (1x54) TrCH2: (1x113) TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One TrCh2: One
>>>>rlc-Size	TrCH1: BitMode
>>>>>sizeType	TrCH1: type 1: 54 TrCH2: type 1: 113
>>>>numberOfTbSizeList	TrCH1: One TrCH2: One
>>>>logicalChannelList	TrCH1: all TrCH2: all
>>>tf 3	TrCH1: (1x64) TrCH2: (1x181) TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One TrCh2: One
>>>>rlc-Size	TrCH1: BitMode
>>>>>sizeType	TrCH1: type 1: 64 TrCH2: type ~~1~~2: ~~181~~part1= 6, part2= 5
>>>>numberOfTbSizeList	TrCH1: One TrCH2: One
>>>>logicalChannelList	TrCH1: all TrCH2: all
>>>tf 4	TrCH1: (1x72) TrCH2: N/A TrCH4: N/A
>>>>numberOfTransportBlocks	TrCH1: One
>>>>rlc-Size	TrCH1: BitMode
>>>>>sizeType	TrCH1: type 1: 72
>>>>numberOfTbSizeList	TrCH1: One
>>>>logicalChannelList	TrCH1: all
>>semistaticTF-Information	
>>>tti	TrCH1- TrCH2: 20 TrCH4: 40
>>>channelCodingType	Convolutional
>>>>codingRate	TrCH1- TrCH2: Third TrCH4: Third
>>>rateMatchingAttribute	TrCH1: 200 TrCH2: 190 TrCH4: 170
>>>crc-Size	TrCH1: 12 TrCH2: 0 TrCH4: 16
DL-AddReconfTransChInfoList	
>Downlink transport channel type	dch
>dl-TransportChannelIdentity	
>tfs-SignallingMode	Independent <Only tf0 on TrCH1 and tf0/tf1 on TrCH5 are different and shown below>
>>transportFormatSet	
>>>dynamicTF-information	
>>>>tf0/ tf0,1	TrCH1: (1x0) TrCH5: (0x3, 1x3)
>>>>rlcSize	BitMode

>>>>>sizeType	TrCH1: type 1: 0 TrCH5: type 1: 3
>>>>numberOfTbSizeList	TrCH1: One TrCH5: Zero, one
>>>>logicalChannelList	All
>>>semistaticTF-Information	same as UL except for TrCH5
>>>>tti	TrCH5: 20
>>>>channelCodingType	Convolutional
>>>>>codingRate	TrCH5: Third
>>>>rateMatchingAttribute	TrCH5: 205
>>>>crc-Size	TrCH5: 8
>>ULTrCH-Id	TrCH1: 1, TrCH2: 2, TrCH4: 4,
>dch-QualityTarget	
>>bler-QualityValue	TrCH1: $7x10^{-3}$ TrCH2: Absent TrCH4- TrCH5: Absent
TrCH INFORMATION, COMMON	
ul-CommonTransChInfo	
>tfcs-ID (TDD only)	1
>sharedChannelIndicator (TDD only)	FALSE
> tfc-Subset	Absent, not required
>ul-TFCS	Normal TFCI signalling
>>explicitTFCS-ConfigurationMode	Complete
>>>ctfcSize	Ctfc6Bit
>>>>TFCS representation	Addition
>>>>>TFC list	
>>>>>>TFC 1	(TF0, TF0, TF0)
>>>>>>>ctfc	0
>>>>>>>gainFactorInformation	Computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 2	(TF1, TF0, TF0)
>>>>>>>ctfc	1
>>>>>>>gainFactorInformation	Computed
>>>>>>>>βc (FDD only)	N/A
>>>>>>>>βd	N/A
>>>>>>>>referenceTFCId	0
>>>>>>TFC 3	(TF2, TF1, TF0)
>>>>>>>ctfc	7
>>>>>>>gainFactorInformation	Computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 4	(TF3, TF2, TF0)
>>>>>>>ctfc	13
>>>>>>>gainFactorInformation	Computed
>>>>>>>>βc (FDD only)	
>>>>>>>>βd	
>>>>>>>>referenceTFCId	0
>>>>>>TFC 5	(TF4, TF3, TF0)
>>>>>>>ctfc	19
>>>>>>>gainFactorInformation	Computed
>>>>>>>>referenceTFCId	0
>>>>>>TFC 6	(TF0, TF0, TF1)
>>>>>>>ctfc	20

>>>>>>>gainFactorInformation	Computed
>>>>>>>>βc (FDD only)	
>>>>>>>>βd	
>>>>>>>referenceTFCId	0
>>>>>>TFC 7	(TF1, TF0, TF1)
>>>>>>>ctfc	21
>>>>>>>gainFactorInformation	Computed
>>>>>>>referenceTFCId	0
>>>>>>TFC 8	(TF2, TF1, TF1)
>>>>>>>ctfc	27
>>>>>>>gainFactorInformation	computed
>>>>>>>>βc (FDD only)	
>>>>>>>>βd	
>>>>>>>referenceTFCId	0
>>>>>>TFC 9	(TF3, TF2, TF1)
>>>>>>>ctfc	33
>>>>>>>gainFactorInformation	computed
>>>>>>>referenceTFCId	0
>>>>>>TFC 10	(TF4, TF3, TF1)
>>>>>>>ctfc	39
>>>>>>>gainFactorInformation	signalled
>>>>>>>>βc (FDD only)	11
>>>>>>>>βd	15
>>>>>>>referenceTFCId	0
> TFC subset list	
>>TFC subset 1	(speech rate 6.6)
>>> Allowed transport format combination list	(TFC1, TFC2, TFC3, TFC6, TFC7, TFC8)
>>TFC subset 2	(speech rate 8.85)
>>> Allowed transport format combination list	(TFC1, TFC2, TFC3, TFC4, TFC6, TFC7, TFC8, TFC9)
>>TFC subset 3	(speech rate 12.65)
>>> Allowed transport format combination list	(TFC1, TFC2, TFC3, TFC4, TFC5, TFC6, TFC7, TFC8, TFC9, TFC10)
dl-CommonTransChInfo	
>tfcs-SignallingMode	Independent
ul-CommonTransChInfo	
>tfcs-ID (TDD only)	1
>sharedChannelIndicator (TDD only)	FALSE
> tfc-Subset	Absent, not required
>dl-TFCS	Normal TFCI signalling
>>explicitTFCS-ConfigurationMode	Complete
>>>ctfcSize	Ctfc8Bit
>>>>TFCS representation	Addition
>>>>>TFCS list	
>>>>>>TFC 1	(TF0, TF0, TF0, TF0)
>>>>>>>ctfc	0
>>>>>>TFC 2	(TF1, TF0, TF0, TF0)
>>>>>>>ctfc	1

>>>>>>TFC 3	(TF2, TF1, TF0, TF0)
>>>>>>>ctfc	7
>>>>>>TFC 4	(TF3, TF2, TF0, TF0)
>>>>>>>ctfc	13
>>>>>>TFC 5	(TF4, TF3, TF0, TF0)
>>>>>>>ctfc	19
>>>>>>TFC 6	(TF0, TF0, TF1, TF0)
>>>>>>>ctfc	20
>>>>>>TFC 7	(TF1, TF0, TF1, TF0)
>>>>>>>ctfc	21
>>>>>>TFC 8	(TF2, TF1, TF1, TF0)
>>>>>>>ctfc	27
>>>>>>TFC 9	(TF3, TF2, TF1, TF0)
>>>>>>>ctfc	33
>>>>>>TFC 10	(TF4, TF3, TF1, TF0)
>>>>>>>ctfc	39
>>>>>>TFC 11	(TF0, TF0, TF0, TF1)
>>>>>>>ctfc	40
>>>>>>TFC 12	(TF1, TF0, TF0, TF1)
>>>>>>>ctfc	41
>>>>>>TFC 13	(TF2, TF1, TF0, TF1)
>>>>>>>ctfc	47
>>>>>>TFC 14	(TF3, TF2, TF0, TF1)
>>>>>>>ctfc	53
>>>>>>TFC 15	(TF4, TF3, TF0, TF1)
>>>>>>>ctfc	59
>>>>>>TFC 16	(TF0, TF0, TF1, TF1)
>>>>>>>ctfc	60
>>>>>>TFC 17	(TF1, TF0, TF1, TF1)
>>>>>>>ctfc	61
>>>>>>TFC 18	(TF2, TF1, TF1, TF1)
>>>>>>>ctfc	67
>>>>>>TFC 19	(TF3, TF2, TF1, TF1)
>>>>>>>ctfc	73
>>>>>>TFC 20	(TF4, TF3, TF1, TF1)
>>>>>>>ctfc	79
PhyCH INFORMATION FDD	
UL-DPCH-InfoPredef	
>ul-DPCH-PowerControlInfo	
>>powerControlAlgorithm	Algorithm 1
>>>tpcStepSize	1 dB
>tfci-Existence	TRUE
>puncturingLimit	0.84
DL-CommonInformationPredef	

>dl-DPCH-InfoCommon	
>>spreadingFactor	128
>>tfci-Existence	FALSE
>>pilotBits	4
>>positionFixed	Fixed

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CR-Form-v7.1

CHANGE REQUEST

⌘ **25.331** **CR** **2606** ⌘ **rev** **1** ⌘ Current version: **5.12.1** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☒ Core Network ☐

Title:	⌘	UE behaviour for DCH SIR target setting for Downlink power control
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	12/05/2005
Category:	⌘	**F**
Release:	⌘	Rel-5

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change:	⌘	The required Ec/No to achieve a target BLER for a particular transport format is different from the required Ec/No to achieve the target BLER for another transport format. As highlighted by LS:s from RAN4 [R4-050267] and RAN1 [R1-050563], current text in 25.331 regarding DCH quality target is not sufficiently clear with respect to that the SIR target should be set on a Transport Channel level, and not for each Transport Format.
Summary of change:	⌘	It is clarified that the SIR target shall be set on a Transport Channel level, and not for each Transport Format. This means that the UE is not to compensate for the fact that the required Ec/No to achieve a target BLER for a particular transport format is different from the required Ec/No to achieve the target BLER for another transport format.
Consequences if not approved:	⌘	If the CR is not approved, different UE implementations will exist, where UEs will or will not try to compensate for the difference in required Ec/No in for the network unpredictable ways. This unpredictable UE behaviour will make it either impossible or highly inefficient for the network to ensure sufficient quality of the DCH, which is especially important for the case of DCCH. **Isolated impact analysis:** The CR has isolated impact to DL power control. If this is not implemented in the UE would result in that either too high power need to be used on a Transport channel or that non sufficient quality would be achieved in cases when there are changes in the used transport format if these

transport formats have a difference in requirements.

Impact on test specifications:
No impact is foreseen.

Clauses affected:	⌘	8.6.5.4			
		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

8.6.5.4 DCH quality target

If the IE "DCH quality target" is included, the UE shall:

1> set, at physical channel establishment, ~~an~~ the initial downlink target SIR value based on the received IE "DCH quality target" for the transport channel with respect to all transport formats;

1> adjust the target SIR for the downlink power control to meet the quality target received in the IE "DCH quality target" for the transport channel with respect to all transport formats.

NOTE 1: Adjusting the target SIR is possible to do continuously by the UE if a CRC exists in all transport formats in the downlink TFS for a DCH. If a CRC does not exist in all transport formats, the UE can only adjust the target SIR when receiving transport formats containing a CRC and the UE has knowledge about the transport format according to [27].

NOTE 2: If the UTRAN configures a UE to use blind transport format detection and configures a transport channel such that single transport format detection [27] must be used to detect the TF, then it is not possible for the UE to maintain a quality target for that transport channel.

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CR-Form-v7.1

CHANGE REQUEST

⌘ **25.331** **CR** **2607** ⌘ **rev** **1** ⌘ Current version: **6.5.0** ⌘

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

Proposed change affects: UICC apps⌘ ☐ ME ☒ Radio Access Network ☒ Core Network ☐

Title:	⌘	UE behaviour for DCH SIR target setting for Downlink power control
Source:	⌘	RAN WG2
Work item code:	⌘	TEI5
Date:	⌘	12/05/2005
Category:	⌘	**A**
Release:	⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
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Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
Ph2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
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R99 (Release 1999)
Rel-4 (Release 4)
Rel-5 (Release 5)
Rel-6 (Release 6)
Rel-7 (Release 7)

Reason for change:	⌘	The required Ec/No to achieve a target BLER for a particular transport format is different from the required Ec/No to achieve the target BLER for another transport format. As highlighted by LS:s from RAN4 [R4-050267] and RAN1 [R1-050563], current text in 25.331 regarding DCH quality target is not sufficiently clear with respect to that the SIR target should be set on a Transport Channel level, and not for each Transport Format.
Summary of change:	⌘	It is clarified that the SIR target shall be set on a Transport Channel level, and not for each Transport Format. This means that the UE is not to compensate for the fact that the required Ec/No to achieve a target BLER for a particular transport format is different from the required Ec/No to achieve the target BLER for another transport format.
Consequences if not approved:	⌘	If the CR is not approved, different UE implementations will exist, where UEs will or will not try to compensate for the difference in required Ec/No in for the network unpredictable ways. This unpredictable UE behaviour will make it either impossible or highly inefficient for the network to ensure sufficient quality of the DCH, which is especially important for the case of DCCH. **Isolated impact analysis:** The CR has isolated impact to DL power control. If this is not implemented in the UE would result in that either too high power need to be used on a Transport channel or that non sufficient quality would be achieved in cases when there are changes in the used transport format if these

transport formats have a difference in requirements.

Impact on test specifications:
No impact is foreseen.

Clauses affected:	⌘	8.6.5.4			
		Y	**N**		
Other specs affected:	⌘		**X**	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	
Other comments:	⌘				

8.6.5.4 DCH quality target

If the IE "DCH quality target" is included, the UE shall:

1> set, at physical channel establishment, ~~an~~ the initial downlink target SIR value based on the received IE "DCH quality target" for the transport channel with respect to all transport formats;

1> adjust the target SIR for the downlink power control to meet the quality target received in the IE "DCH quality target" for the transport channel with respect to all transport formats.

NOTE 1: Adjusting the target SIR is possible to do continuously by the UE if a CRC exists in all transport formats in the downlink TFS for a DCH. If a CRC does not exist in all transport formats, the UE can only adjust the target SIR when receiving transport formats containing a CRC and the UE has knowledge about the transport format according to [27].

NOTE 2: If the UTRAN configures a UE to use blind transport format detection and configures a transport channel such that single transport format detection [27] must be used to detect the TF, then it is not possible for the UE to maintain a quality target for that transport channel.