

TSG RAN Meeting #24
SEOUL, Korea, June 2nd-4th, 2004

RP-040256

Title CRs (Rel-5 and Rel-6 Category A) to TS 25.331 on Clarification of UE procedure in case of HHO failure
Source QUALCOMM Europe, Ericsson, LGE, **Motorola, Samsung, Motorola, Lucent**
Agenda Item 7.3.5

RAN2 Tdoc	Spec	curr. Vers.	new Vers.	CR	Rev	Cat	Rel	Title	Work item
-	TS 25.331	5.8.0	5.9.0	2366	1	F	Rel-5	Clarification of UE procedure in case of HHO failure	TEI5
-	TS 25.331	6.1.0	6.2.0	2367	1	A	Rel-6	Clarification of UE procedure in case of HHO failure	TEI5

CR-Form-v7

CHANGE REQUEST

25.331 CR 2366 # rev 1 # Current version: 5.8.0

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:	# Clarification on UE procedure in case of HHO failure		
Source:	# Qualcomm Europe, Ericsson, LGE, Motorola, Samsung, Motorola, Lucent		
Work item code:	# TEI5	Date:	# June, 2 2004
Category:	# F	Release:	# Rel-5
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	2	(GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R96	(Release 1996)
	B (addition of feature),	R97	(Release 1997)
	C (functional modification of feature)	R98	(Release 1998)
	D (editorial modification)	R99	(Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Rel-4	(Release 4)
		Rel-5	(Release 5)
		Rel-6	(Release 6)

Reason for change:	# Improve consistency of UE behaviour in order to facilitate network configuration and further reduce the risk of dropped calls in case of inter-RAT, intra- or inter-frequency hard handover.
Summary of change:	# Clarifies that UE shall follow the synchronisation procedure A when attempting to re-establish the DPCH after a inter-RAT, intra- or inter-frequency hard handover failure, as specified in the RAN1 specifications.
Consequences if not approved:	# Inconsistent UE behaviour resulting in more challenging network configuration and possibly more dropped calls resulting from handover attempts.

Clauses affected:	# 8.2.2.7, 8.3.7.5, 8.3.11.5, 8.6.6.30, 13.4.11b (new)										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N	X			X		X	Other core specifications	# TS 25.214 CR 349r2, 350r2 TS 25.133 CR 674r1, 675
Y	N										
X											
	X										
	X										
Other comments:	# Changes in Revision 1 are highlighted in yellow										

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.

[...]

8.2.2.7 Physical channel failure

If the received message caused the UE to be in CELL_DCH state and the UE according to subclause 8.5.4 failed to establish the dedicated physical channel(s) indicated in the received message the UE shall:

- 1> if HS-DSCH is configured:
 - 2> stop any HS-DSCH reception procedures;
 - 2> clear any stored HS-PDSCH configuration;
 - 2> act as if the IE "MAC-hs reset indicator" is received and set to TRUE;
 - 2> release all HARQ resources;
 - 2> remove any H-RNTI stored;
 - 2> clear the variable H_RNTI;
 - 2> set the variable HS_DSCH_RECEPTION to FALSE.
- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is not set to TRUE:
 - 2> revert to the configuration prior to the reception of the message (old configuration);
 - 2> if the UE was in Cell DCH state prior to the reconfiguration:
 - 3> perform the physical layer synchronisation procedure A as specified in [29] (FDD only);
 - 3> after the establishment of the uplink physical channel, send DPCCH and no DPDCH according to [26] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and
 - 3> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE.
- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is set to TRUE or if the old configuration includes dedicated physical channels (CELL_DCH state) and the UE is unable to revert to the old configuration:
 - 2> initiate a cell update procedure according to subclause 8.3.1, using the cause "radio link failure";
 - 2> after the cell update procedure has completed successfully:
 - 3> proceed as below.
- 1> if the old configuration does not include dedicated physical channels (CELL_FACH state):
 - 2> select a suitable UTRA cell according to [4];
 - 2> if the UE selects another cell than the cell the UE camped on upon reception of the reconfiguration message:
 - 3> initiate a cell update procedure according to subclause 8.3.1, using the cause "Cell reselection";
 - 3> after the cell update procedure has completed successfully:
 - 4> proceed as below.
- 1> transmit a failure response message as specified in subclause 8.2.2.9, setting the information elements as specified below:
 - 2> include the IE "RRC transaction identifier"; and
 - 2> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and

- 2> clear that entry;
- 2> set the IE "failure cause" to "physical channel failure".
- 1> set the variable ORDERED_RECONFIGURATION to FALSE;
- 1> continue with any ongoing processes and procedures as if the reconfiguration message was not received.

The procedure ends.

[...]

8.3.7.5 UE fails to complete requested handover

If the UE does not succeed in establishing the connection to the target radio access technology, it shall:

- 1> revert back to the UTRA configuration;

NOTE: If configured for HS-DSCH while in UTRA, the UE will have still stored the IEs "Added or Reconfigured MAC-d flow" and "RB mapping Info".

- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is not set to TRUE:
 - 2> establish the UTRA physical channel(s) used at the time for reception of HANOVER FROM UTRAN COMMAND:-
 - 2> [perform the physical layer synchronisation procedure A as specified in \[29\] \(FDD only\);](#)
 - 2> [after the establishment of the uplink physical channel, send DPCCH and no DPDCH according to \[26\] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and](#)
 - 2> [then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE.](#)
- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is set to TRUE or if the UE does not succeed to establish the UTRA physical channel(s):
 - 2> perform a cell update procedure according to subclause 8.3.1 with cause "Radio link failure";
 - 2> when the cell update procedure has completed successfully:
 - 3> proceed as below.
- 1> transmit the HANOVER FROM UTRAN FAILURE message setting the information elements as specified below:
 - 2> include the IE "RRC transaction identifier"; and
 - 2> set it to the value of "RRC transaction identifier" in the entry for the HANOVER FROM UTRAN COMMAND message in the table "Accepted transactions" in the variable TRANSACTIONS; and
 - 2> clear that entry;
 - 2> set the IE "Inter-RAT handover failure" to "physical channel failure".
- 1> When the HANOVER FROM UTRAN FAILURE message has been submitted to lower layer for transmission:
 - 2> the procedure ends.

[...]

8.3.11.5 Expiry of timer T309 or UE fails to complete requested cell change order

If:

- timer T309 expires prior to the successful establishment of a connection to the target RAT; or
- if the establishment of the connection to the other RAT failed due to other reasons e.g. (random) access failure, rejection due to lack of resources:

the UE shall:

1> if it received the CELL CHANGE ORDER FROM UTRAN message in state CELL_DCH:

2> revert back to the UTRA configuration;

NOTE: If configured for HS-DSCH while in UTRA, the UE will have still stored the IEs "Added or Reconfigured MAC-d flow" and "RB mapping Info".

2> establish the UTRA physical channel(s) used at the time for reception of CELL CHANGE ORDER FROM UTRAN;

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

[2> after the establishment of the uplink physical channel, send DPCCH and no DPDCH according to \[26\] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and](#)

[2> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE;](#)

2> if the UE does not succeed in establishing the UTRA physical channel(s):

3> perform a cell update procedure according to subclause 8.3.1 with cause "Radio link failure";

3> when the cell update procedure has completed successfully:

4> proceed as below.

2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:

3> include the IE "RRC transaction identifier"; and

3> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and

3> clear that entry;

3> set the IE "Inter-RAT change failure" to "physical channel failure".

2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission, the procedure ends.

1> if the UE receives the CELL CHANGE ORDER FROM UTRAN message in CELL_FACH state:

2> revert to the cell it was camped on at the reception of the CELL CHANGE ORDER FROM UTRAN message;

2> if the UE is unable to return to this cell:

3> select a suitable UTRA cell according to [4];

3> initiate the cell update procedure according to subclause 8.3.1 using the cause "cell re-selection";

3> when the cell update procedure completed successfully:

4> proceed as below.

2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:

3> include the IE "RRC transaction identifier"; and

- 3> set it to the value of "RRC transaction identifier" in the entry for the CELL CHANGE ORDER FROM UTRAN message in the table "Accepted transactions" in the variable TRANSACTIONS; and
- 3> clear that entry;
- 3> set the IE "Inter-RAT change failure" to "physical channel failure".
- 2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission:
 - 3> the procedure ends.

[...]

8.6.6.30 SRB delay, PC preamble (FDD only)

When the IE "SRB delay" and IE "PC preamble" is received in a message that results in a configuration of uplink DPCH, the UE shall:

1> store the received IE "SRB delay" and IE "PC preamble" in the variable LATEST CONFIGURED SRB DELAY AND PC PREAMBLE;

- 1> after the establishment of the uplink physical channel, send DPCCCH and no DPDCH according to [26] during the number of frames indicated in the IE "PC preamble"; and
- 1> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay".

[...]

13.4.11b LATEST CONFIGURED SRB DELAY AND PC PREAMBLE

This variable stores the SRB delay and PC preamble to be used for establishing the DPCH after failure of hard handover, inter-RAT handover from UTRAN, or cell change order from UTRAN.

<u>Information Element/Group name</u>	<u>Need</u>	<u>Multi</u>	<u>Type and reference</u>	<u>Semantics description</u>
<u>SRB delay</u>	<u>OP</u>		<u>Integer (0..7)</u>	<u>Cleared when entering UTRA RRC connected mode when not stated otherwise in the procedure.</u>
<u>PC preamble</u>	<u>OP</u>		<u>Integer (0..7)</u>	<u>Cleared when entering UTRA RRC connected mode when not stated otherwise in the procedure.</u>

[...]

CR-Form-v7

CHANGE REQUEST

⌘ **25.331 CR 2367** ⌘ rev **1** ⌘ Current version: **6.1.0** ⌘

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:	⌘ Clarification on UE procedure in case of HHO failure		
Source:	⌘ Qualcomm Europe, Ericsson, LGE, Motorola, Samsung, Motorola, Lucent		
Work item code:	⌘ TEI5	Date:	⌘ June, 2 2004
Category:	⌘ A	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	2	(GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R96	(Release 1996)
	B (addition of feature),	R97	(Release 1997)
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	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Rel-4	(Release 4)
		Rel-5	(Release 5)
		Rel-6	(Release 6)

Reason for change:	⌘ Improve consistency of UE behaviour in order to facilitate network configuration and further reduce the risk of dropped calls in case of inter-RAT, intra- or inter-frequency hard handover.
Summary of change:	⌘ Clarifies that UE shall follow the synchronisation procedure A when attempting to re-establish the DPCH after a inter-RAT, intra- or inter-frequency hard handover failure, as specified in the RAN1 specifications.
Consequences if not approved:	⌘ Inconsistent UE behaviour resulting in more challenging network configuration and possibly more dropped calls resulting from handover attempts.

Clauses affected:	⌘ 8.2.2.7, 8.3.7.5, 8.3.11.5, 8.6.6.30, 13.4.11b (new)										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table> Other core specifications	Y	N	X			X		X	⌘ TS 25.214 CR 349r2, 350r2 TS 25.133 CR 674r1, 675	
Y	N										
X											
	X										
	X										
Other comments:	⌘ Changes in Revision 1 are highlighted in yellow										

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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.

[...]

8.2.2.7 Physical channel failure

If the received message caused the UE to be in CELL_DCH state and the UE according to subclause 8.5.4 failed to establish the dedicated physical channel(s) indicated in the received message the UE shall:

- 1> if HS-DSCH is configured:
 - 2> stop any HS-DSCH reception procedures;
 - 2> clear any stored HS-PDSCH configuration;
 - 2> act as if the IE "MAC-hs reset indicator" is received and set to TRUE;
 - 2> release all HARQ resources;
 - 2> remove any H-RNTI stored;
 - 2> clear the variable H_RNTI;
 - 2> set the variable HS_DSCH_RECEPTION to FALSE.
- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is not set to TRUE:
 - 2> revert to the configuration prior to the reception of the message (old configuration);
 - 2> if the UE was in Cell DCH state prior to the reconfiguration:
 - 3> perform the physical layer synchronisation procedure A as specified in [29] (FDD only);
 - 3> after the establishment of the uplink physical channel, send DPCCH and no DPDCH according to [26] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and
 - 3> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE.
- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is set to TRUE or if the old configuration includes dedicated physical channels (CELL_DCH state) and the UE is unable to revert to the old configuration:
 - 2> initiate a cell update procedure according to subclause 8.3.1, using the cause "radio link failure";
 - 2> after the cell update procedure has completed successfully:
 - 3> proceed as below.
- 1> if the old configuration does not include dedicated physical channels (CELL_FACH state):
 - 2> select a suitable UTRA cell according to [4];
 - 2> if the UE selects another cell than the cell the UE camped on upon reception of the reconfiguration message:
 - 3> initiate a cell update procedure according to subclause 8.3.1, using the cause "Cell reselection";
 - 3> after the cell update procedure has completed successfully:
 - 4> proceed as below.
- 1> transmit a failure response message as specified in subclause 8.2.2.9, setting the information elements as specified below:
 - 2> include the IE "RRC transaction identifier"; and
 - 2> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and

- 2> clear that entry;
- 2> set the IE "failure cause" to "physical channel failure".
- 1> set the variable ORDERED_RECONFIGURATION to FALSE;
- 1> continue with any ongoing processes and procedures as if the reconfiguration message was not received.

The procedure ends.

[...]

8.3.7.5 UE fails to complete requested handover

If the UE does not succeed in establishing the connection to the target radio access technology, it shall:

- 1> revert back to the UTRA configuration;

NOTE: If configured for HS-DSCH while in UTRA, the UE will have still stored the IEs "Added or Reconfigured MAC-d flow" and "RB mapping Info".

- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is not set to TRUE:
 - 2> establish the UTRA physical channel(s) used at the time for reception of HANDOVER FROM UTRAN COMMAND:-
 - 2> [perform the physical layer synchronisation procedure A as specified in \[29\] \(FDD only\);](#)
 - 2> [after the establishment of the uplink physical channel, send DPCCH and no DPDCH according to \[26\] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and](#)
 - 2> [then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE.](#)
- 1> if the CM_PATTERN_ACTIVATION_ABORTED flag is set to TRUE or if the UE does not succeed to establish the UTRA physical channel(s):
 - 2> perform a cell update procedure according to subclause 8.3.1 with cause "Radio link failure";
 - 2> when the cell update procedure has completed successfully:
 - 3> proceed as below.
- 1> transmit the HANDOVER FROM UTRAN FAILURE message setting the information elements as specified below:
 - 2> include the IE "RRC transaction identifier"; and
 - 2> set it to the value of "RRC transaction identifier" in the entry for the HANDOVER FROM UTRAN COMMAND message in the table "Accepted transactions" in the variable TRANSACTIONS; and
 - 2> clear that entry;
 - 2> set the IE "Inter-RAT handover failure" to "physical channel failure".
- 1> When the HANDOVER FROM UTRAN FAILURE message has been submitted to lower layer for transmission:
 - 2> the procedure ends.

[...]

8.3.11.5 Expiry of timer T309 or UE fails to complete requested cell change order

If:

- timer T309 expires prior to the successful establishment of a connection to the target RAT; or
- if the establishment of the connection to the other RAT failed due to other reasons e.g. (random) access failure, rejection due to lack of resources:

the UE shall:

1> if it received the CELL CHANGE ORDER FROM UTRAN message in state CELL_DCH:

2> revert back to the UTRA configuration;

NOTE: If configured for HS-DSCH while in UTRA, the UE will have still stored the IEs "Added or Reconfigured MAC-d flow" and "RB mapping Info".

2> establish the UTRA physical channel(s) used at the time for reception of CELL CHANGE ORDER FROM UTRAN;

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

[2> after the establishment of the uplink physical channel, send DPCCH and no DPDCH according to \[26\] during the number of frames indicated in the IE "PC preamble" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE; and](#)

[2> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay" in the variable LATEST_CONFIGURED_SRB_DELAY_AND_PC_PREAMBLE;](#)

2> if the UE does not succeed in establishing the UTRA physical channel(s):

3> perform a cell update procedure according to subclause 8.3.1 with cause "Radio link failure";

3> when the cell update procedure has completed successfully:

4> proceed as below.

2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:

3> include the IE "RRC transaction identifier"; and

3> set it to the value of "RRC transaction identifier" in the entry for the received message in the table "Accepted transactions" in the variable TRANSACTIONS; and

3> clear that entry;

3> set the IE "Inter-RAT change failure" to "physical channel failure".

2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission, the procedure ends.

1> if the UE receives the CELL CHANGE ORDER FROM UTRAN message in CELL_FACH state:

2> revert to the cell it was camped on at the reception of the CELL CHANGE ORDER FROM UTRAN message;

2> if the UE is unable to return to this cell:

3> select a suitable UTRA cell according to [4];

3> initiate the cell update procedure according to subclause 8.3.1 using the cause "cell re-selection";

3> when the cell update procedure completed successfully:

4> proceed as below.

2> transmit the CELL CHANGE ORDER FROM UTRAN FAILURE message setting the information elements as specified below:

3> include the IE "RRC transaction identifier"; and

- 3> set it to the value of "RRC transaction identifier" in the entry for the CELL CHANGE ORDER FROM UTRAN message in the table "Accepted transactions" in the variable TRANSACTIONS; and
- 3> clear that entry;
- 3> set the IE "Inter-RAT change failure" to "physical channel failure".
- 2> When the CELL CHANGE ORDER FROM UTRAN FAILURE message has been submitted to lower layer for transmission:
 - 3> the procedure ends.

[...]

8.6.6.30 SRB delay, PC preamble (FDD only)

When the IE "SRB delay" and IE "PC preamble" is received in a message that results in a configuration of uplink DPCH, the UE shall:

1> store the received IE "SRB delay" and IE "PC preamble" in the variable LATEST CONFIGURED SRB DELAY AND PC PREAMBLE;

- 1> after the establishment of the uplink physical channel, send DPCCCH and no DPDCH according to [26] during the number of frames indicated in the IE "PC preamble"; and
- 1> then not send any data on signalling radio bearers RB0 to RB4 during the number of frames indicated in the IE "SRB delay".

[...]

13.4.11b LATEST CONFIGURED SRB DELAY AND PC PREAMBLE

This variable stores the SRB delay and PC preamble to be used for establishing the DPCH after failure of hard handover, inter-RAT handover from UTRAN, or cell change order from UTRAN.

<u>Information Element/Group name</u>	<u>Need</u>	<u>Multi</u>	<u>Type and reference</u>	<u>Semantics description</u>
<u>SRB delay</u>	<u>OP</u>		<u>Integer (0..7)</u>	<u>Cleared when entering UTRA RRC connected mode when not stated otherwise in the procedure.</u>
<u>PC preamble</u>	<u>OP</u>		<u>Integer (0..7)</u>	<u>Cleared when entering UTRA RRC connected mode when not stated otherwise in the procedure.</u>

[...]