

**TSG-RAN Meeting #23**  
**Phoenix, 10-12 March 2004**

**RP-040105**

**Title:** Invalid Simultaneous Reconfiguration Criteria: CRs on 25.331 (Rel-5 onwards) (Technically endorsed)

**Source:** TSG-RAN WG2

**Agenda item:** 7.3.5

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	2248	-	Rel-5	Invalid Simultaneous Reconfiguration Criteria	F	5.7.1	5.8.0	R2-040604	TEI5
25.331	2249	-	Rel-6	Invalid Simultaneous Reconfiguration Criteria	A	6.0.1	6.1.0	R2-040605	TEI5

## CHANGE REQUEST

# 25.331 CR 2248 # rev - # Current version: 5.7.1 #

*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

<b>Title:</b>	# Invalid Simultaneous Reconfiguration Criteria		
<b>Source:</b>	# RAN WG2		
<b>Work item code:</b>	# TEI-5	<b>Date:</b>	# 05/01/2004
<b>Category:</b>	# <b>F</b>	<b>Release:</b>	# Rel-5
	<i>Use one of the following categories:</i> <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		<i>Use one of the following releases:</i> <b>2</b> (GSM Phase 2) <b>R96</b> (Release 1996) <b>R97</b> (Release 1997) <b>R98</b> (Release 1998) <b>R99</b> (Release 1999) <b>Rel-4</b> (Release 4) <b>Rel-5</b> (Release 5) <b>Rel-6</b> (Release 6)

<b>Reason for change:</b>	# It is not clear whether the UE shall interpret the IE "Downlink Counter Synchronisation Info" as being part of the "RB information elements" or not.  If the UE considers the IE as being part of the "RB information elements" it would reject a Cell Update Confirm message including the IE "Downlink Counter Synchronisation Info" in the case of a SRNS Relocation in CELL_FACH state which is initiated by a state transition from CELL_DCH to CELL_FACH.
<b>Summary of change:</b>	# Section 8.3.1.9 The UE shall not consider the "Downlink counter synchronisation info" IE as a trigger to refuse a Cell Update triggering a SRNS relocation when a RB Reconfiguration message is already ongoing.
<b>Consequences if not approved:</b>	# If the CR is not approved the UE will not be allowed to accept the SRNS relocation in CELL_FACH in the case it is triggered due to the State Transition from CELL_DCH to CELL_FACH.  <b>Isolated Impact Change Analysis.</b> This change impacts the SRNS Relocation triggered by a Cell Update Confirm message triggered by the state transition from CELL_DCH to CELL_FACH. If the UE does not implement this change this means that the UTRAN can not trigger the SRNS relocation in CELL_FACH triggered by a state transition from CELL_DCH to CELL_FACH but needs to release the UE in the cell of the target RNC. This means that there will be dropped calls.  <b>Impact on the test specifications</b> There is no test defined in 34.123 which is impacted by the changes.

<b>Clauses affected:</b>	# 8.3.1.9a
--------------------------	------------

<b>Other specs affected:</b>		<b>Y</b>	<b>N</b>		
	⌘		<b>X</b>	Other core specifications	⌘
			<b>X</b>	Test specifications	
			<b>X</b>	O&M Specifications	
<b>Other comments:</b>	⌘				

**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.

### 8.3.1.9a Incompatible simultaneous reconfiguration

In case of a cell update procedure and if the received CELL UPDATE CONFIRM message

- includes [the IE "RB information to release list"](#), and/or [the IE "RB information to reconfigure list"](#), and/or [the IE "RB information to be affected list"](#), and/or ~~"RB information elements"~~; and/or
- includes "Transport channel information elements"; and/or
- includes "Physical channel information elements"; and
- the variable ORDERED\_RECONFIGURATION is set to TRUE because of an ongoing Reconfiguration procedure;

or

If the variable INCOMPATIBLE\_SECURITY\_RECONFIGURATION is set to TRUE due to the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message:

the UE shall:

- 1> if V302 is equal to or smaller than N302:
  - 2> if, caused by the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message
    - 3> the IE "Reconfiguration" in the variable CIPHERING\_STATUS is set to TRUE; and/or
    - 3> the IE "Reconfiguration" in the variable INTEGRITY\_PROTECTION\_INFO is set to TRUE:
      - 4> abort the ongoing integrity and/or ciphering reconfiguration;
      - 4> if the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message contained the IE "Ciphering mode info":
        - 5> set the IE "Reconfiguration" in the variable CIPHERING\_STATUS to FALSE; and
        - 5> clear the variable RB\_UPLINK\_CIPHERING\_ACTIVATION\_TIME\_INFO.
      - 4> if the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message contained the IE "Integrity protection mode info":
        - 5> set the IE "Reconfiguration" in the variable INTEGRITY\_PROTECTION\_INFO to FALSE; and
        - 5> clear the variable INTEGRITY\_PROTECTION\_ACTIVATION\_INFO.
  - 2> if the variable ORDERED\_RECONFIGURATION is set to TRUE due to the received CELL UPDATE CONFIRM message in case of a cell update procedure:
    - 3> set the variable ORDERED\_RECONFIGURATION to FALSE.
  - 2> set the variable FAILURE\_INDICATOR to TRUE;
  - 2> set the variable FAILURE\_CAUSE to "Incompatible simultaneous reconfiguration";
  - 2> set the content of the CELL UPDATE message according to subclause 8.3.1.3;
  - 2> submit the CELL UPDATE message for transmission on the uplink CCCH;
  - 2> increment counter V302;
  - 2> restart timer T302 when the MAC layer indicates success or failure to transmit the message.
- 1> if V302 is greater than N302:
  - 2> clear the variable RB\_UPLINK\_CIPHERING\_ACTIVATION\_TIME\_INFO;
  - 2> clear the variable INTEGRITY\_PROTECTION\_ACTIVATION\_INFO;

- 2> clear the variable PDCP\_SN\_INFO;
- 2> set the variable INCOMPATIBLE\_SECURITY\_RECONFIGURATION to FALSE;
- 2> clear the entry for the CELL\_UPDATE\_CONFIRM message in the table "Rejected transactions" in the variable TRANSACTIONS;
- 2> release all its radio resources;
- 2> indicate release (abort) of the established signalling connections (as stored in the variable ESTABLISHED\_SIGNALLING\_CONNECTIONS) and established radio access bearers (as stored in the variable ESTABLISHED\_RABS) to upper layers;
- 2> clear the variable ESTABLISHED\_SIGNALLING\_CONNECTIONS;
- 2> clear the variable ESTABLISHED\_RABS;
- 2> set the variable CELL\_UPDATE\_STARTED to FALSE;
- 2> enter idle mode;
- 2> Other actions the UE shall perform when entering idle mode from connected mode are specified in subclause 8.5.2;
- 2> the procedure ends.

## CHANGE REQUEST

# 25.331 CR 2249 # rev - # Current version: 6.0.1 #

*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

<b>Title:</b>	# Invalid Simultaneous Reconfiguration Criteria		
<b>Source:</b>	# RAN WG2		
<b>Work item code:</b>	# TEI-5	<b>Date:</b>	# 05/01/2004
<b>Category:</b>	# <b>A</b>		<b>Release:</b> # Rel-6
	Use <i>one</i> 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 <a href="#">TR 21.900</a> .		Use <i>one</i> 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)

<b>Reason for change:</b>	# It is not clear whether the UE shall interpret the IE "Downlink Counter Synchronisation Info" as being part of the "RB information elements" or not.  If the UE considers the IE as being part of the "RB information elements" it would reject a Cell Update Confirm message including the IE "Downlink Counter Synchronisation Info" in the case of a SRNS Relocation in CELL_FACH state which is initiated by a state transition from CELL_DCH to CELL_FACH.
<b>Summary of change:</b>	# Section 8.3.1.9 The UE shall not consider the "Downlink counter synchronisation info" IE as a trigger to refuse a Cell Update triggering a SRNS relocation when a RB Reconfiguration message is already ongoing.
<b>Consequences if not approved:</b>	# If the CR is not approved the UE will not be allowed to accept the SRNS relocation in CELL_FACH in the case it is triggered due to the State Transition from CELL_DCH to CELL_FACH.  <b>Isolated Impact Change Analysis.</b> This change impacts the SRNS Relocation triggered by a Cell Update Confirm message triggered by the state transition from CELL_DCH to CELL_FACH. If the UE does not implement this change this means that the UTRAN can not trigger the SRNS relocation in CELL_FACH triggered by a state transition from CELL_DCH to CELL_FACH but needs to release the UE in the cell of the target RNC. This means that there will be dropped calls.  <b>Impact on the test specifications</b> There is no test defined in 34.123 which is impacted by the changes.

<b>Clauses affected:</b>	# 8.3.1.9a
--------------------------	------------

<b>Other specs affected:</b>		<b>Y</b>	<b>N</b>		
	⌘		<b>X</b>	Other core specifications	⌘
			<b>X</b>	Test specifications	
			<b>X</b>	O&M Specifications	
<b>Other comments:</b>	⌘				

**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.

### 8.3.1.9a Incompatible simultaneous reconfiguration

In case of a cell update procedure and if the received CELL UPDATE CONFIRM message

- includes [the IE "RB information to release list"](#), and/or [the IE "RB information to reconfigure list"](#), and/or [the IE "RB information to be affected list"](#), and/or
- includes "Transport channel information elements"; and/or
- includes "Physical channel information elements"; and
- the variable ORDERED\_RECONFIGURATION is set to TRUE because of an ongoing Reconfiguration procedure;

or

If the variable INCOMPATIBLE\_SECURITY\_RECONFIGURATION is set to TRUE due to the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message:

the UE shall:

- 1> if V302 is equal to or smaller than N302:
  - 2> if, caused by the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message
    - 3> the IE "Reconfiguration" in the variable CIPHERING\_STATUS is set to TRUE; and/or
    - 3> the IE "Reconfiguration" in the variable INTEGRITY\_PROTECTION\_INFO is set to TRUE:
      - 4> abort the ongoing integrity and/or ciphering reconfiguration;
      - 4> if the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message contained the IE "Ciphering mode info":
        - 5> set the IE "Reconfiguration" in the variable CIPHERING\_STATUS to FALSE; and
        - 5> clear the variable RB\_UPLINK\_CIPHERING\_ACTIVATION\_TIME\_INFO.
      - 4> if the received CELL UPDATE CONFIRM or URA UPDATE CONFIRM message contained the IE "Integrity protection mode info":
        - 5> set the IE "Reconfiguration" in the variable INTEGRITY\_PROTECTION\_INFO to FALSE; and
        - 5> clear the variable INTEGRITY\_PROTECTION\_ACTIVATION\_INFO.
  - 2> if the variable ORDERED\_RECONFIGURATION is set to TRUE due to the received CELL UPDATE CONFIRM message in case of a cell update procedure:
    - 3> set the variable ORDERED\_RECONFIGURATION to FALSE.
  - 2> set the variable FAILURE\_INDICATOR to TRUE;
  - 2> set the variable FAILURE\_CAUSE to "Incompatible simultaneous reconfiguration";
  - 2> set the content of the CELL UPDATE message according to subclause 8.3.1.3;
  - 2> submit the CELL UPDATE message for transmission on the uplink CCCH;
  - 2> increment counter V302;
  - 2> restart timer T302 when the MAC layer indicates success or failure to transmit the message.
- 1> if V302 is greater than N302:
  - 2> clear the variable RB\_UPLINK\_CIPHERING\_ACTIVATION\_TIME\_INFO;
  - 2> clear the variable INTEGRITY\_PROTECTION\_ACTIVATION\_INFO;



- 2> clear the variable PDCP\_SN\_INFO;
- 2> set the variable INCOMPATIBLE\_SECURITY\_RECONFIGURATION to FALSE;
- 2> clear the entry for the CELL\_UPDATE\_CONFIRM message in the table "Rejected transactions" in the variable TRANSACTIONS;
- 2> release all its radio resources;
- 2> indicate release (abort) of the established signalling connections (as stored in the variable ESTABLISHED\_SIGNALLING\_CONNECTIONS) and established radio access bearers (as stored in the variable ESTABLISHED\_RABS) to upper layers;
- 2> clear the variable ESTABLISHED\_SIGNALLING\_CONNECTIONS;
- 2> clear the variable ESTABLISHED\_RABS;
- 2> set the variable CELL\_UPDATE\_STARTED to FALSE;
- 2> enter idle mode;
- 2> Other actions the UE shall perform when entering idle mode from connected mode are specified in subclause 8.5.2;
- 2> the procedure ends.