TSG-RAN Meeting #21 Frankfurt, Germany, 16-19 September 2003

RP-030505

Title: Radio link failure during reconfiguration procedure.

CRs (R'99 and linked Rel-4/Rel-5) to TS 25.331.

Source: TSG-RAN WG2

Agenda item: 7.3.3

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	2070	2	R99	Radio link failure during reconfiguration procedure	F	3.15.0	3.16.0	R2-032055	TEI
25.331	2071	2	Rel-4	Radio link failure during reconfiguration procedure	Α	4.10.0	4.11.0	R2-032056	TEI
25.331	2072	1	Rel-5	Radio link failure during reconfiguration procedure	F	5.5.0	5.6.0	R2-032054	TEI

3GPP TSG-RAN2 Meeting #37 Budapest, Hungary, 25th – 29th Aug 2003

# 25.331 CR 2070			CHANG	E REQ	UES1	Г		CR-Form-v7
	*	25.331	CR 2070	жrev	2 *	Current version:	3.15.0	æ

For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the **%** symbols.

Proposed change affects: UICC apps# ME X Radio Access Network X Core Network

Title: Radio link failure during reconfiguration procedure Source: RAN WG2 Date: **28/08/2003** F Category: Release: # R99 Use one of the following releases: Use one of the following categories: **F** (correction) 2 (GSM Phase 2) A (corresponds to a correction in an earlier R96 (Release 1996) R97 (Release 1997) release) (addition of feature), R98 (Release 1998) R (functional modification of feature) R99 (Release 1999) (editorial modification) Rel-4 (Release 4) Detailed explanations of the above categories can Rel-5 (Release 5) be found in 3GPP TR 21.900. Rel-6 (Release 6)

Reason for change:

Current specification is ambiguous as to how UE should behave if radio link failure occurs during reconfiguration procedure.

When a reconfiguration message causes the state transition from CELL_DCH state it is possible that UE detects radio link failure in the old configuration. It is also possible, if new state is CELL_DCH, that radio link failure occurs in the new configuration whilst UE is waiting for successful delivery of a response message.

In case of the state transition from CELL_DCH to CELL_PCH, UE transmits response message and waits for RLC acknowledgement in the state CELL_DCH. This means that the reconfiguration can fail due to radio link failure even after succesful response message has been sent to UTRAN. How UE should behave in this case is not defined in the specification.

Intention of the current specification seems that UE acts as if the reconfiguration was not received because according to the section 8.3.1.2 the variable ORDERED_RECONFIGURATION is set to FALSE so that UTRAN can re-assign appropriate configuration to UE in CELL UPDATE CONFIRM message. This is not reflected in the specification.

Summary of change: # Section 8.2.2.X Radio link failure (new section)

It is proposed to specify that if radio link failure occurs on the old configuration during the reconfiguration porcedure UE **should** initiate a cell update procedure using the cause "radio link failure" and then transmit a failure response message with the cause "physical channel failure" unless UE has already transmitted a response message. It is also proposed that the UE **should** act as if the reconfiguration message was not received.

It is proposed to specify "should" in R99 and "shall" in Rel-4/5.

Revision from R2-031663:

It is specified that if the UE detected radio link failure in the new configuration UE **shall** perform the actions specified in sublause 8.2.2.12b if security is started and UE behaviour is unspecified if security is not started. Editorial rewording to improve readability of the CR.

Changes in revision 1 of CR:

The note indicating that UTRAN should not perform DCH->DCH reconfiguration with SRNS relocation without security has been removed. This note would mean that the UTRAN could not perform SRNS relocation during a SIM-less emergency call. If a radio link failure occurs during a DCH->DCH reconfiguration with SRNS relocation without security then the UE **should** go to idle mode. This remains a should in release 4 but is not specified in release 5 to allow further discussion of whether it will become shall or some different behaviour.

Isolated impact analysis:

This CR has isolated impact to the occurrence of radio link failure during reconfiguration procedure.

Impact on test specifications:

No impact on test specification.

In 34.123-1-540 8.2.2.4 and 8.2.4.4 the test cases concerning radio link failure during reconfiguration are specified. They are in line with the intention covered in this CR.

Consequences if not approved:

% Unneccessary application of redundant configuration by UE would cause inconsistency in channel configurations between UE and UTRAN. This would lead to call dropping.

Clauses affected:	第 8.2.2.X (new	section)		
	YN			
Other specs		core specifications	*	
affected:		pecifications		
	X O&M S	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:

- 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 Reconfiguration procedures

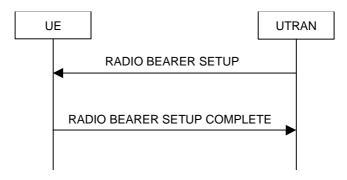


Figure 8.2.2-1: Radio Bearer Establishment, normal case

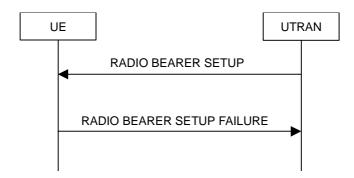


Figure 8.2.2-2: Radio Bearer Establishment, failure case

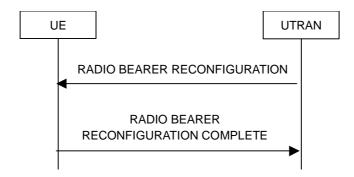


Figure 8.2.2-3: Radio bearer reconfiguration, normal flow

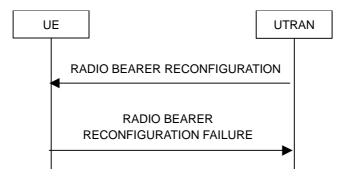


Figure 8.2.2-4: Radio bearer reconfiguration, failure case

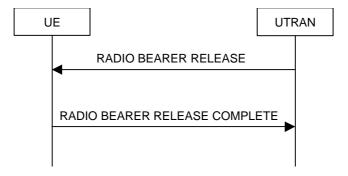


Figure 8.2.2-5: Radio Bearer Release, normal case

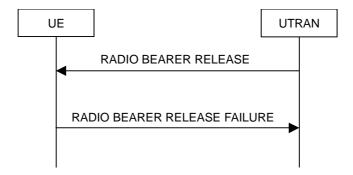


Figure 8.2.2-6: Radio Bearer Release, failure case

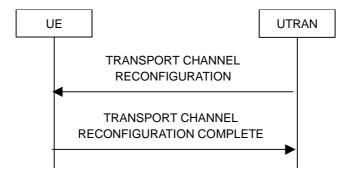


Figure 8.2.2-7: Transport channel reconfiguration, normal flow

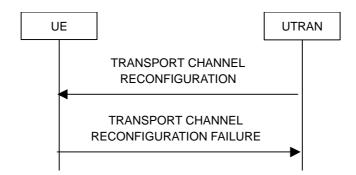


Figure 8.2.2-8: Transport channel reconfiguration, failure case

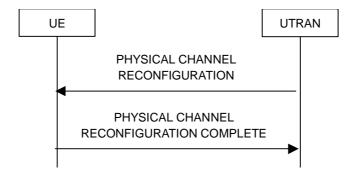


Figure 8.2.2-9: Physical channel reconfiguration, normal flow

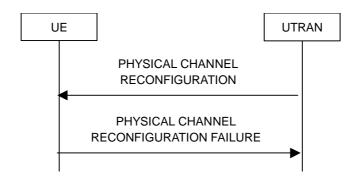


Figure 8.2.2-10: Physical channel reconfiguration, failure case

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> revert to the configuration prior to the reception of the message (old configuration);
- 1> 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.

8.2.2.8 Cell re-selection

If the UE performs cell re-selection during the reconfiguration procedure, the UE shall:

- 1> initiate a cell update procedure, as specified in subclause 8.3.1;
- 1> continue with the reconfiguration procedure.

8.2.2.X Radio link failure

If the criteria for radio link failure is met in the old configuration during the reconfiguration procedure as specified in subclause 8.5.6 the UE should:

- 1> if UE would have entered CELL_PCH or URA_PCH as a result of this reconfiguration procedure and UE has already submitted a response message to lower layers:
 - 2> act as if the reconfiguration message was not received;
 - 2> initiate a cell update procedure according to subclause 8.3.1, using the cause "radio link failure";
 - 2> the procedure ends.
- NOTE: UTRAN should consider the reconfiguration procedure as unsuccessful in this case even if a success response message had been received.
- 1> if UE would have remained in CELL DCH state as a result of this reconfiguration procedure:
 - 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;
 - 2> transmit a failure response message as specified in subclause 8.2.2.9, setting the information elements as specified below:
 - 3> include the IE "RRC transaction identifier"; and
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 - 3> clear that entry;
 - 3> set the IE "failure cause" to "physical channel failure".
 - 2> act as if the reconfiguration message was not received;.
 - 2> the procedure ends.

If the criteria for radio link failure is met in the new configuration during the reconfiguration procedure (i.e. while UE is waiting for RLC acknowledgement for a response message.) as specified in subclause 8.5.6 the UE shall:

- 1> if the received reconfiguration causes either;
 - the IE "Reconfiguration" in the variable CIPHERING_STATUS to be set to TRUE; and/or
 - the IE "Reconfiguration" in the variable INTEGRITY_PROTECTION_INFO to be set to TRUE
 - 2> perform the actions specified in subclause 8.2.2.12b.

- 1> else, the UE should:
 - 2> the UE behaviour is unspecified.
 - 2> release all its radio resources;
 - 2> indicate the release 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 any entry for the RRC CONNECTION RELEASE message in the tables "Accepted transactions" and "Rejected transactions" in the variable TRANSACTIONS;
 - 2> clear the variable ESTABLISHED_SIGNALLING_CONNECTIONS;
 - 2> clear the variable ESTABLISHED RABS;
 - 2> enter idle mode;
 - 2> perform the actions specified in subclause 8.5.2 when entering idle mode;
 - 2> the procedure ends.

3GPP TSG-RAN2 Meeting #37 Budapest, Hungary, 25th – 29th Aug 2003

CHANGE REQUEST							CR-Form-v7
¥	25.331 CR	2071	жrev	2 *	Current version:	4.10.0	

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Proposed change affects: UICC apps # ME X Radio Access Network X Core Network

Title: Radio link failure during reconfiguration procedure Source: RAN WG2 Date: **28/08/2003** Category: Α Release: # Rel-4 Use one of the following releases: Use one of the following categories: **F** (correction) 2 (GSM Phase 2) A (corresponds to a correction in an earlier R96 (Release 1996) R97 (Release 1997) release) (addition of feature), R98 (Release 1998) R (functional modification of feature) R99 (Release 1999) (editorial modification) Rel-4 (Release 4) Detailed explanations of the above categories can Rel-5 (Release 5) be found in 3GPP TR 21.900. Rel-6 (Release 6)

Reason for change:

Current specification is ambiguous as to how UE should behave if radio link failure occurs during reconfiguration procedure.

When a reconfiguration message causes the state transition from CELL_DCH state it is possible that UE detects radio link failure in the old configuration. It is also possible, if new state is CELL_DCH, that radio link failure occurs in the new configuration whilst UE is waiting for successful delivery of a response message.

In case of the state transition from CELL_DCH to CELL_PCH, UE transmits response message and waits for RLC acknowledgement in the state CELL_DCH. This means that the reconfiguration can fail due to radio link failure even after succesful response message has been sent to UTRAN. How UE should behave in this case is not defined in the specification.

Intention of the current specification seems that UE acts as if the reconfiguration was not received because according to the section 8.3.1.2 the variable ORDERED_RECONFIGURATION is set to FALSE so that UTRAN can re-assign appropriate configuration to UE in CELL UPDATE CONFIRM message. This is not reflected in the specification.

Summary of change: * Section 8.2.2.X Radio link failure (new section)

It is proposed to specify that if radio link failure occurs on the old configuration during the reconfiguration porcedure UE **should** initiate a cell update procedure using the cause "radio link failure" and then transmit a failure response message with the cause "physical channel failure" unless UE has already transmitted a response message. It is also proposed that the UE **should** act as if the reconfiguration message was not received.

It is proposed to specify "should" in R99 and "shall" in Rel-4/5

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Changes in revision 1 of CR:

The note indicating that UTRAN should not perform DCH->DCH reconfiguration with SRNS relocation without security has been removed. This note would mean that the UTRAN could not perform SRNS relocation during a SIM-less emergency call. If a radio link failure occurs during a DCH->DCH reconfiguration with SRNS relocation without security then the UE **should** go to idle mode. This remains a should in release 4 but is not specified in release 5 to allow further discussion of whether it will become shall or some different behaviour.

Isolated impact analysis:

This CR has isolated impact to the occurrence of radio link failure during reconfiguration procedure.

Impact on test specifications:

No impact on test specification.

In 34.123-1-540 8.2.2.4 and 8.2.4.4 the test cases concerning radio link failure during reconfiguration are specified. They are in line with the intention covered in this CR.

Consequences if not approved:

X Unneccessary application of redundant configuration by UE would cause inconsistency in channel configurations between UE and UTRAN. This would lead to call dropping.

Clauses affected:	第 8.2.2.X (new section)
	YN
Other specs	★ X Other core specifications ★ A Company of the core specification ★ A Company of the core specification ★ A Company of the core specification ★ A Company of the core specification ★ A Company of the core specification ★ A Company of the core specification ★ A Company of the core specification ★ A Company of the core specification ★ A Company of the core specification
affected:	X Test specifications
	X O&M Specifications
Other comments:	¥

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8.2.2 Reconfiguration procedures

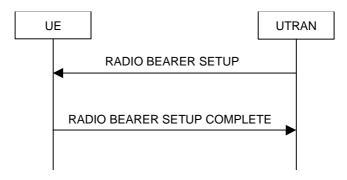


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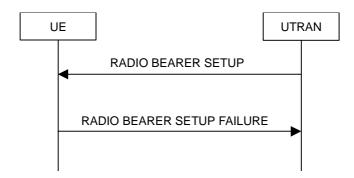


Figure 8.2.2-2: Radio Bearer Establishment, failure case

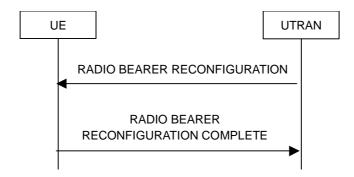


Figure 8.2.2-3: Radio bearer reconfiguration, normal flow

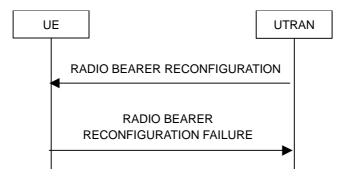


Figure 8.2.2-4: Radio bearer reconfiguration, failure case

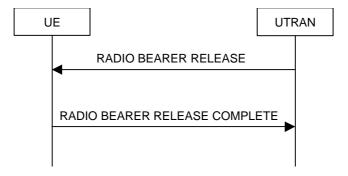


Figure 8.2.2-5: Radio Bearer Release, normal case

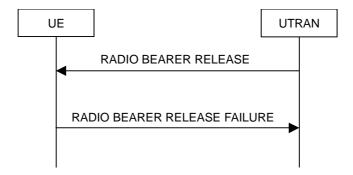


Figure 8.2.2-6: Radio Bearer Release, failure case

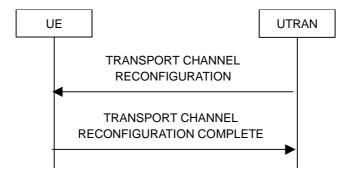


Figure 8.2.2-7: Transport channel reconfiguration, normal flow

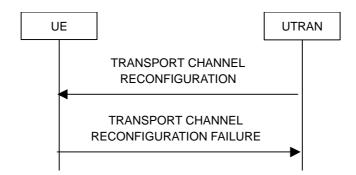


Figure 8.2.2-8: Transport channel reconfiguration, failure case

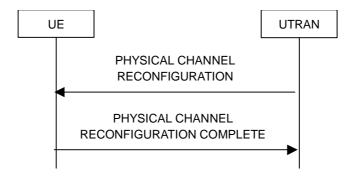


Figure 8.2.2-9: Physical channel reconfiguration, normal flow

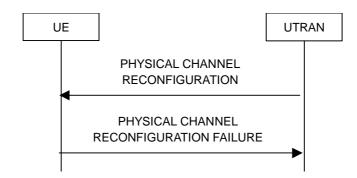


Figure 8.2.2-10: Physical channel reconfiguration, failure case

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> revert to the configuration prior to the reception of the message (old configuration);
- 1> 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:
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- 1> if the old configuration does not include dedicated physical channels (CELL_FACH state):
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- 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.

8.2.2.8 Cell re-selection

If the UE performs cell re-selection during the reconfiguration procedure, the UE shall:

- 1> initiate a cell update procedure, as specified in subclause 8.3.1;
- 1> continue with the reconfiguration procedure.

8.2.2.X Radio link failure

If the criteria for radio link failure is met in the old configuration during the reconfiguration procedure as specified in subclause 8.5.6 the UE should:

- 1> if UE would have entered CELL_PCH or URA_PCH as a result of this reconfiguration procedure and UE has already submitted a response message to lower layers:
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3GPP TSG-RAN2 Meeting #37 Budapest, Hungary, 25th – 29th Aug 2003

		CHANG	SE REQ	UE	ST	-		CR-Form
æ	25.331	CR 2072	жrev	1	ж	Current version:	5.5.0	æ
For <u>HELP</u> (on using this for	m, see bottom of	this page or	look i	at th	ne pop-up text over	r the ૠ syr	nbols.

Proposed change affects: UICC apps# ME X Radio Access Network X Core Network

Title:	Radio link failure during reconfiguration proced	dure	
Source:	RAN WG2		
		_	
Work item code: 8	B TEI	Date: ₩	28/08/2003
Category:	B <mark>F</mark>	Release: #	Rel-5
	Use <u>one</u> of the following categories:	Use <u>one</u> of t	the following releases:
	F (correction)	2	(GSM Phase 2)
	A (corresponds to a correction in an earlier		(Release 1996)
	release)	R97	(Release 1997)
	B (addition of feature),	R98	(Release 1998)
	C (functional modification of feature)	R99	(Release 1999)
	D (editorial modification)	Rel-4	(Release 4)
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release 5 where should requirements in R99/4.

Revision from R2-031663:

It is specified that if the UE detected radio link failure in the new configuration UE **shall** perform the actions specified in sublause 8.2.2.12b if security is started and UE behaviour is unspecified if security is not started. Editorial rewording to improve readability of the CR.

Changes in revision 1 of CR:

The note indicating that UTRAN should not perform DCH->DCH reconfiguration with SRNS relocation without security has been removed. This note would mean that the UTRAN could not perform SRNS relocation during a SIM-less emergency call. In release 99/4, if a radio link failure occurs during a DCH->DCH reconfiguration with SRNS relocation without security then the UE **should** go to idle mode. In release 5 to allow further discussion of whether it will become shall or some different behaviour.

Isolated impact analysis:

This CR has isolated impact to the occurrence of radio link failure during reconfiguration procedure.

Impact on test specifications:

No impact on test specification.

In 34.123-1-540 8.2.2.4 and 8.2.4.4 the test cases concerning radio link failure during reconfiguration are specified. They are in line with the intention covered in this CR.

Consequences if not approved:

% Unneccessary application of redundant configuration by UE would cause inconsistency in channel configurations between UE and UTRAN. This would lead to call dropping.

Clauses affected:	第 8.2.2.X (new section)
	YN
Other specs	* X Other core specifications *
affected:	X Test specifications
	X O&M Specifications
Other comments:	X

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:

- 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 Reconfiguration procedures

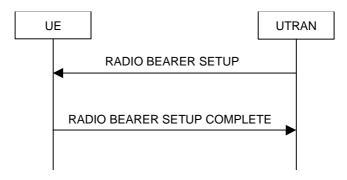


Figure 8.2.2-1: Radio Bearer Establishment, normal case

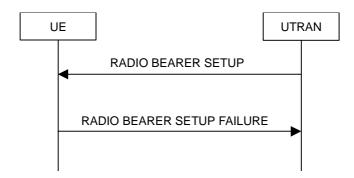


Figure 8.2.2-2: Radio Bearer Establishment, failure case

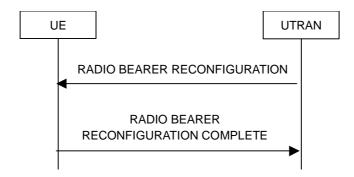


Figure 8.2.2-3: Radio bearer reconfiguration, normal flow

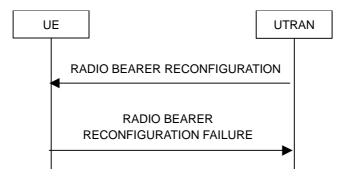


Figure 8.2.2-4: Radio bearer reconfiguration, failure case

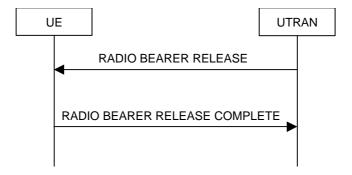


Figure 8.2.2-5: Radio Bearer Release, normal case

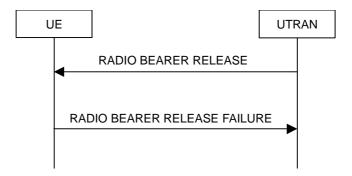


Figure 8.2.2-6: Radio Bearer Release, failure case

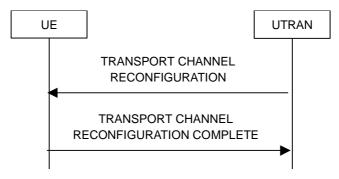


Figure 8.2.2-7: Transport channel reconfiguration, normal flow

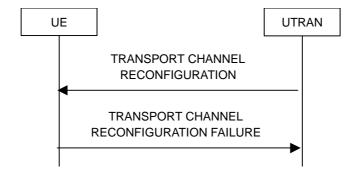


Figure 8.2.2-8: Transport channel reconfiguration, failure case

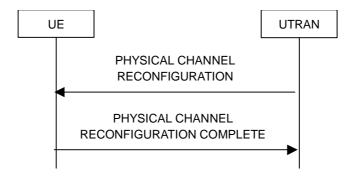


Figure 8.2.2-9: Physical channel reconfiguration, normal flow

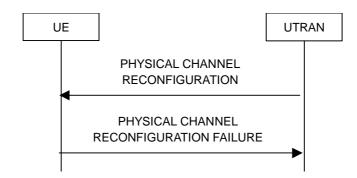


Figure 8.2.2-10: Physical channel reconfiguration, failure case

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> revert to the configuration prior to the reception of the message (old configuration);
- 1> 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.

8.2.2.8 Cell re-selection

If the UE performs cell re-selection during the reconfiguration procedure, the UE shall:

- 1> initiate a cell update procedure, as specified in subclause 8.3.1;
- 1> continue with the reconfiguration procedure.

8.2.2.X Radio link failure

If the criteria for radio link failure is met in the old configuration during the reconfiguration procedure as specified in subclause 8.5.6 the UE shall:

- 1> if UE would have entered CELL_PCH or URA_PCH as a result of this reconfiguration procedure and UE has already submitted a response message to lower layers:
 - 2> act as if the reconfiguration message was not received;
 - 2> initiate a cell update procedure according to subclause 8.3.1, using the cause "radio link failure";
 - 2> the procedure ends.
- NOTE: UTRAN should consider the reconfiguration procedure as unsuccessful in this case even if a success response message had been received.
- 1> if UE would have remained in CELL DCH state as a result of this reconfiguration procedure:
 - 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;
 - 2> transmit a failure response message as specified in subclause 8.2.2.9, 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 "failure cause" to "physical channel failure".
 - 2> act as if the reconfiguration message was not received;.
 - 2> the procedure ends.

If the criteria for radio link failure is met in the new configuration during the reconfiguration procedure (i.e. while UE is waiting for RLC acknowledgement for a response message.) as specified in subclause 8.5.6 the UE shall:

- 1> if the received reconfiguration causes either;
 - the IE "Reconfiguration" in the variable CIPHERING_STATUS to be set to TRUE; and/or
 - the IE "Reconfiguration" in the variable INTEGRITY_PROTECTION_INFO to be set to TRUE:
 - 2> perform the actions specified in subclause 8.2.2.12b.

1> else:

2> the UE behaviour is unspecified.