TSG-RAN Meeting #22 **RP-030611**
Maui, USA, 09-12 December 2003

Title: **Correction to redirection procedure at RRC Connection Setup: 25.331 CRs to R’99, Rel-4 and Rel-5**

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	2104	1	R99	Correction to Redirection procedure at RRC Connection Setup	F	3.16.0	3.17.0	R2-032719	TEI
25.331	2105	1	Rel-4	Correction to Redirection procedure at RRC Connection Setup	A	4.11.0	4.12.0	R2-032720	TEI
25.331	2106	1	Rel-5	Correction to Redirection procedure at RRC Connection Setup	A	5.6.0	5.7.0	R2-032721	TEI

3GPP TSG-RAN2 Meeting #37
San Diego, U.S.A., 17-21 November, 2003

Tdoc ⌘R2-032719

CR-Form-v7

CHANGE REQUEST

⌘ **25.331** **CR** **2104** ⌘**rev** **1** ⌘ Current version: **3.16.0** ⌘

*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:	⌘	Correction to Redirection procedure at RRC Connection Setup
Source:	⌘	RAN WG2
Work item code:	⌘	TEI
Date:	⌘	November 28 2003
Category:	⌘	**F**
Release:	⌘	R99

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: ⌘ The RRC CONNECTION REJECT message allows UTRAN to redirect the UE to a different frequency or to a different RAT. The cell selection and cell reselection procedures are mentioned in the procedural description. This description is ambiguous because the definition of cell selection assumes interactions with NAS that are not described in the redirection procedure, e.g. it is not entirely clear if the UE shall only select a cell belonging to the selected PLMN (if already registered, the RPLMN) or also of an equivalent PLMN (i.e. last registered PLMN or RPLMN). Furthermore it could be interpreted that the UE is allowed to select a cell ofany PLMN on the indicated UTRA frequency or RAT.

Summary of change: ⌘ References to cell selection and reselection are removed from the redirection procedures. It is clarified that when instructed by UTRAN with RRC CONNECTION REJECT message the UE shall select a suitable cell belonging to the "selected PLMN" [normally the (last) registered PLMN (RPLMN)] incl. potential equivalent PLMNs on the designated UTRA carrier or designated system for the inter-RAT case.

Isolated Impact Change Analysis.

This change clarifies the redirection procedure.
It would not affect implementations behaving like indicated in the CR, it would affect implementations supporting the corrected functionality otherwise.

Impact on the test specifications
There are no functional impacts.
The test defined in 34.123 is already aligned with this CR, but the test description will have to be updated with the new text.

Consequences if not approved:	⌘	The UE behaviour would not be clear in case of redirection to another UTRA carrier or to another RAT. The UE may end up in the PLMN of a competing operator which is not intended behaviour. The CR is necessary to ensure consistent UE behaviour when being re-directed upon RRC connection establishment. If this behaviour is not stated explicitly a UE potentially could end up on a non-suitable cell, where only limited service would be possible. Changes between PLMNs (apart from ePLMNs) could not be avoided.

Clauses affected:	⌘	8.1.3.9			
Other specs affected:	⌘	**Y** / **N** / **X** **X** / / **X**	Other core specifications Test specifications O&M Specifications	⌘	TS 34.123
Other comments:	⌘				

How to create CRs using this form:

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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.

[…]

8.1.3.9 Reception of an RRC CONNECTION REJECT message by the UE

When the UE receives an RRC CONNECTION REJECT message on the downlink CCCH, it shall compare the value of the IE "Initial UE identity" in the received RRC CONNECTION REJECT message with the value of the variable INITIAL_UE_IDENTITY:

If the values are different, the UE shall ignore the rest of the message;

If the values are identical, the UE shall:

1> stop timer T300; and

1> clear the entry for the RRC CONNECTION REJECT message in the table "Accepted transactions" in the variable TRANSACTIONS;

1> if the IE "wait time" <> '0'; and

1> if the IE "frequency info" is present and:

2> if V300 is equal to or smaller than N300:

3> ~~initiate cell selection~~select a suitable cell belonging to the selected PLMN or any PLMN indicated to be equivalent to that PLMN on the designated UTRA carrier;

3> after having selected and camped on a suitable cell on the designated UTRA carrier:

4> set CFN in relation to SFN of current cell according to subclause 8.5.15;

4> set the contents of the RRC CONNECTION REQUEST message according to subclause 8.1.3.3;

4> perform the mapping of the Access Class to an Access Service Class as specified in subclause 8.5.13, and apply the given Access Service Class when accessing the RACH;

4> transmit an RRC CONNECTION REQUEST message on the uplink CCCH;

4> reset counter V300;

4> start timer T300 when the MAC layer indicates success or failure in transmitting the message;

4> disable cell reselection to original UTRA carrier until the time stated in the IE "wait time" has elapsed;

3> if ~~a~~no suitable cell ~~selection~~ on the designated UTRA carrier ~~fails~~is found:

4> wait at least ~~for~~ the time stated in the IE "wait time";

4> set CFN in relation to SFN of current cell according to subclause 8.5.15;

4> set the IEs in the RRC CONNECTION REQUEST message according to subclause 8.1.3.3;

4> perform the mapping of the Access Class to an Access Service Class as specified in subclause 8.5.13, and apply the given Access Service Class when accessing the RACH;

4> then submit a new RRC CONNECTION REQUEST message to the lower layers for transmission on the uplink CCCH of the original serving cell;

4> increment counter V300;

4> restart timer T300 when the MAC layer indicates success or failure to transmit the message;

2> if V300 is greater than N300:

3> enter idle mode;

3> perform the actions specified in subclause 8.5.2 when entering idle mode from connected mode;

3> consider the RRC establishment procedure to be unsuccessful;

3> the procedure ends.

1> if the IE "inter-RAT info" is present and:

2> if V300 is equal to or smaller than N300:

3> select a suitable cell belonging to the ~~perform cell selection~~ selected PLMN or any PLMN indicated to be equivalent to that PLMN in the designated ~~system~~RAT;

3> after having selected and camped on a suitable cell on the designated RAT:

4> ~~delay~~ disable cell reselection to the original ~~system~~ RAT until the time stated in the IE " wait time" has elapsed.

3> if no suitable cell ~~selection~~ in the designated ~~system~~ RAT is found~~fails~~:

4> wait at least the time stated in the IE "wait time";

4> set CFN in relation to SFN of current cell according to subclause 8.5.15;

4> set the IEs in the RRC CONNECTION REQUEST message according to subclause 8.1.3.2.

4> perform the mapping of the Access Class to an Access Service Class as specified in subclause 8.5.13, and apply the given Access Service Class when accessing the RACH;

4> then submit a new RRC CONNECTION REQUEST message to the lower layers for transmission on the uplink CCCH;

4> increment counter V300;

4> restart timer T300 when the MAC layer indicates success or failure to transmit the message;

2> if V300 is greater than N300:

3> enter idle mode;

3> perform the actions specified in subclause 8.5.2 when entering idle mode from connected mode;

3> consider the RRC establishment procedure to be unsuccessful;

3> the procedure ends.

1> If neither the IEs "frequency info" nor "inter-RAT info" are present and:

2> if V300 is equal to or smaller than N300:

3> wait at least the time stated in the IE "wait time";

3> set the IEs in the RRC CONNECTION REQUEST message according to subclause 8.1.3.2;

3> perform the mapping of the Access Class to an Access Service Class as specified in subclause 8.5.13, and apply the given Access Service Class when accessing the RACH;

3> submit a new RRC CONNECTION REQUEST message to the lower layers for transmission on the uplink CCCH;

3> increment counter V300;

3> restart timer T300 when the MAC layer indicates success or failure to transmit the message;

2> if V300 is greater than N300:

3> enter idle mode;

3> perform the actions specified in subclause 8.5.2 when entering idle mode from connected mode;

3> consider the RRC establishment procedure to be unsuccessful;

3> the procedure ends.

1> if the IE "wait time" = '0':

2> enter idle mode;

2> perform the actions specified in subclause 8.5.2 when entering idle mode from connected mode;

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[…]

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CHANGE REQUEST

⌘ **25.331** **CR** **2105** ⌘**rev** **1** ⌘ Current version: **4.11.0** ⌘

*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:	⌘	Correction to Redirection procedure at RRC Connection Setup
Source:	⌘	RAN WG2
Work item code:	⌘	TEI
Date:	⌘	November 28 2003
Category:	⌘	**A**
Release:	⌘	Rel-4

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
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Reason for change: ⌘ The RRC CONNECTION REJECT message allows UTRAN to redirect the UE to a different frequency or to a different RAT. The cell selection and cell reselection procedures are mentioned in the procedural description. This description is ambiguous because the definition of cell selection assumes interactions with NAS that are not described in the redirection procedure, e.g. it is not entirely clear if the UE shall only select a cell belonging to the selected PLMN (if already registered, the RPLMN) or also of an equivalent PLMN (i.e. last registered PLMN or RPLMN). Furthermore it could be interpreted that the UE is allowed to select a cell of any PLMN on the indicated UTRA frequency or RAT.

Summary of change: ⌘ References to cell selection and reselection are removed from the redirection procedures. It is clarified that when instructed by UTRAN with RRC CONNECTION REJECT message the UE shall select a suitable cell belonging to the "selected PLMN" [normally the (last) registered PLMN (RPLMN)] incl. potential equivalent PLMNs on the designated UTRA carrier or designated system for the inter-RAT case.

Isolated Impact Change Analysis.

This change clarifies the redirection procedure.
It would not affect implementations behaving like indicated in the CR, it would affect implementations supporting the corrected functionality otherwise.

Impact on the test specifications
There are no functional impacts.
The test defined in 34.123 is already aligned with this CR, but the test description will have to be updated with the new text.

Consequences if not approved:	⌘	The UE behaviour would not be clear in case of redirection to another UTRA carrier or to another RAT. The UE may end up in the PLMN of a competing operator which is not intended behaviour. The CR is necessary to ensure consistent UE behaviour when being re-directed upon RRC connection establishment. If this behaviour is not stated explicitly a UE potentially could end up on a non-suitable cell, where only limited service would be possible. Changes between PLMNs (apart from ePLMNs) could not be avoided.

Clauses affected:	⌘	8.1.3.9			
Other specs affected:	⌘	**Y** / **N** / **X** **X** / / **X**	Other core specifications Test specifications O&M Specifications	⌘	TS 34.123
Other comments:	⌘				

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If the values are identical, the UE shall:

1> stop timer T300; and

1> clear the entry for the RRC CONNECTION REJECT message in the table "Accepted transactions" in the variable TRANSACTIONS;

1> if the IE "wait time" <> '0'; and

1> if the IE "frequency info" is present and:

2> if V300 is equal to or smaller than N300:

3> ~~initiate cell selection~~select a suitable cell belonging to the selected PLMN or any PLMN indicated to be equivalent to that PLMN on the designated UTRA carrier;

3> after having selected and camped on a suitable cell on the designated UTRA carrier:

4> set CFN in relation to SFN of current cell according to subclause 8.5.15;

4> set the contents of the RRC CONNECTION REQUEST message according to subclause 8.1.3.3;

4> perform the mapping of the Access Class to an Access Service Class as specified in subclause 8.5.13, and apply the given Access Service Class when accessing the RACH;

4> transmit an RRC CONNECTION REQUEST message on the uplink CCCH;

4> reset counter V300;

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3> enter idle mode;

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3> the procedure ends.

1> if the IE "inter-RAT info" is present and:

2> if V300 is equal to or smaller than N300:

3> select a suitable cell belonging to ~~perform cell selection~~ selected PLMN or any PLMN indicated to be equivalent to that PLMN in the designated ~~system~~RAT;

3> after having selected and camped on a suitable cell on the designated RAT:

4> ~~delay~~ disable cell reselection to the original ~~system~~ RAT until the time stated in the IE " wait time" has elapsed.

3> if no suitable cell ~~selection~~ in the designated ~~system~~ RAT is found~~fails~~:

4> wait at least the time stated in the IE "wait time";

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4> increment counter V300;

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2> if V300 is greater than N300:

3> enter idle mode;

3> perform the actions specified in subclause 8.5.2 when entering idle mode from connected mode;

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2> if V300 is equal to or smaller than N300:

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Tdoc ⌘R2-032721

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CHANGE REQUEST

⌘ **25.331** **CR** **2106** ⌘**rev** **1** ⌘ Current version: **5.6.0** ⌘

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

Title:	⌘	Correction to Redirection procedure at RRC Connection Setup
Source:	⌘	RAN WG2
Work item code:	⌘	TEI
Date:	⌘	November 28 2003
Category:	⌘	**A**
Release:	⌘	Rel-5

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Clauses affected:	⌘	8.1.3.9			
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If the values are identical, the UE shall:

1> stop timer T300; and

1> clear the entry for the RRC CONNECTION REJECT message in the table "Accepted transactions" in the variable TRANSACTIONS;

1> if the IE "wait time" <> '0'; and

1> if the IE "frequency info" is present and:

2> if V300 is equal to or smaller than N300:

3> ~~initiate cell selection~~select a suitable cell belonging to the selected PLMN or any PLMN indicated to be equivalent to that PLMN on the designated UTRA carrier;

3> after having selected and camped on a suitable cell on the designated UTRA carrier:

4> set CFN in relation to SFN of current cell according to subclause 8.5.15;

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4> transmit an RRC CONNECTION REQUEST message on the uplink CCCH;

4> reset counter V300;

4> start timer T300 when the MAC layer indicates success or failure in transmitting the message;

4> disable cell reselection to original UTRA carrier until the time stated in the IE "wait time" has elapsed;

3> if ~~a~~no suitable cell ~~selection~~ on the designated UTRA carrier is found~~fails~~:

4> wait at least ~~for~~ the time stated in the IE "wait time";

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4> perform the mapping of the Access Class to an Access Service Class as specified in subclause 8.5.13, and apply the given Access Service Class when accessing the RACH;

4> then submit a new RRC CONNECTION REQUEST message to the lower layers for transmission on the uplink CCCH of the original serving cell;

4> increment counter V300;

4> restart timer T300 when the MAC layer indicates success or failure to transmit the message;

2> if V300 is greater than N300:

3> enter idle mode;

3> perform the actions specified in subclause 8.5.2 when entering idle mode from connected mode;

3> consider the RRC establishment procedure to be unsuccessful;

3> the procedure ends.

1> if the IE "inter-RAT info" is present and:

2> if V300 is equal to or smaller than N300:

3> select a suitable cell belonging to the ~~perform cell selection~~ selected PLMN or any PLMN indicated to be equivalent to that PLMN in the designated ~~system~~RAT;

3> after having selected and camped on a suitable cell on the designated RAT:

4> ~~delay~~ disable cell reselection to the original ~~system~~ RAT until the time stated in the IE " wait time" has elapsed.

3> if no suitable cell ~~selection~~ in the designated ~~system~~ RAT is found~~fails~~:

4> wait at least the time stated in the IE "wait time";

4> set CFN in relation to SFN of current cell according to subclause 8.5.15;

4> set the IEs in the RRC CONNECTION REQUEST message according to subclause 8.1.3.2.

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1> If neither the IEs "frequency info" nor "inter-RAT info" are present and:

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