

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

RP-050329
agenda item 8.12

Source: TSG-RAN WG2.

Title: CRs (Rel-6) on 25.331 on Network Sharing corrections

The following CRs are in RP-050329:

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level	Workitem
25.331	2542	-	Rel-6	Merged CR alignment w.r.t. network sharing functionality	F	6.5.0	6.6.0	R2-051094	NTShar-UTRANEnh
25.331	2611	-	Rel-6	Correction to network sharing	F	6.5.0	6.6.0	R2-051689	NTShar-UTRANEnh

CHANGE REQUEST

⌘ **25.331 CR 2542** ⌘ 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:	⌘ Merged CR alignment w.r.t. network sharing functionality		
Source:	⌘ RAN WG2		
Work item code:	⌘ NTShar-UTRANEnh	Date:	⌘ April 2005
Category:	⌘ F Use <u>one</u> 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 .	Release:	⌘ Rel-6 Use <u>one</u> 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: ⌘	<p>The current text on when/how to set the IE "PLMN identity" in the INITIAL DIRECT TRANSFER message is not understandable.</p> <p>The problem is that CR 2525 renamed the "PLMN identity" IE used in dedicated RRC signalling, by "Primary PLMN identity" and moved it into the "CN information info" IE, while the current text (introduced by CR 2524) refers to the same IE with it's old name and position.</p>
Summary of change: ⌘	<ol style="list-style-type: none">1. "PLMN Identity" is changed to "Primary PLMN Identity" due to change of IE name in CR 2525.2. The text "which replaced the contents of" is removed. Since the "Primary PLMN identity" is in CR 2525 made part of the IE "CN Information Info" it cannot logically replace the contents of the IE "CN Information Info". Note that the functionality is in no way changed by removal of this text. The original text is used only to point out which PLMN identity IE that is referred to, and this is now perfectly clear from the IE name "Primary PLMN identity" and it's position inside the "CN information info" IE.3. The text "contained in the same message" is removed. Since the "Primary PLMN identity" is in CR 2525 made part of the IE "CN Information Info", it is necessarily contained in the same message. Thus, this text is superfluous.

Consequences if not approved: ⌘ The indicated unclarity will remain.

Clauses affected: ⌘ 8.1.8.2

Other specs affected:	⌘	Y	N	Other core specifications ⌘		
						Test specifications
						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.

8.1.8 Initial Direct transfer

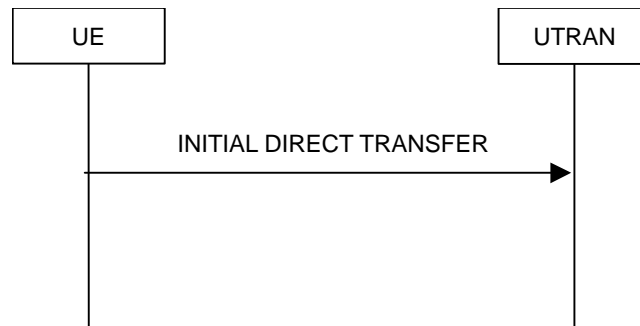


Figure 8.1.8-1: Initial Direct transfer in the uplink, normal flow

8.1.8.1 General

The initial direct transfer procedure is used in the uplink to establish a signalling connection. It is also used to carry an initial upper layer (NAS) message over the radio interface.

8.1.8.2 Initiation of Initial direct transfer procedure in the UE

In the UE, the initial direct transfer procedure shall be initiated, when the upper layers request establishment of a signalling connection. This request also includes a request for the transfer of a NAS message.

Upon initiation of the initial direct transfer procedure the UE shall:

- 1> set the variable ESTABLISHMENT_CAUSE to the cause for establishment indicated by upper layers.

Upon initiation of the initial direct transfer procedure when the UE is in idle mode, the UE shall:

- 1> perform an RRC connection establishment procedure, according to subclause 8.1.3;

NOTE: If an RRC connection establishment is ongoing, this procedure continues unchanged, i.e. it is not interrupted.

- 1> if the RRC connection establishment procedure was not successful:

- 2> if the establishment cause for the failed RRC connection establishment was set to "MBMS reception" and a different cause value is stored in the variable "ESTABLISHMENT_CAUSE":

- 3> UE-AS (RRC) initiates a new RRC connection establishment procedure, using the establishment cause as contained in the variable ESTABLISHMENT_CAUSE.

- 2> otherwise:

- 3> indicate failure to establish the signalling connection to upper layers and end the procedure.

- 1> when the RRC connection establishment procedure is completed successfully:

- 2> continue with the initial direct transfer procedure as below.

Upon initiation of the initial direct transfer procedure when the UE is in CELL_PCH or URA_PCH state, the UE shall:

- 1> perform a cell update procedure, according to subclause 8.3.1, using the cause "uplink data transmission";

- 1> when the cell update procedure completed successfully:

- 2> continue with the initial direct transfer procedure as below.

The UE shall, in the INITIAL DIRECT TRANSFER message:

- 1> set the IE "NAS message" as received from upper layers; and

- 1> set the IE "CN domain identity" as indicated by the upper layers; and
- 1> set the IE "Intra Domain NAS Node Selector" as follows:
 - 2> derive the IE "Intra Domain NAS Node Selector" from TMSI/PMTSI, IMSI, or IMEI; and
 - 2> provide the coding of the IE "Intra Domain NAS Node Selector" according to the following priorities:
 1. derive the routing parameter for IDNNS from TMSI (CS domain) or PTMSI (PS domain) whenever a valid TMSI/PTMSI is available;
 2. base the routing parameter for IDNNS on IMSI when no valid TMSI/PTMSI is available;
 3. base the routing parameter for IDNNS on IMEI only if no (U)SIM is inserted in the UE.
- 1> if the UE, on the existing RRC connection, has received a dedicated RRC message containing the IE "[Primary PLMN Identity](#)" ~~which replaced the contents of [in](#) the IE "CN Information Info"~~ ~~contained in the same message:~~
 - 2> set the IE "PLMN identity" in the INITIAL DIRECT TRANSFER message to the latest PLMN information received via dedicated RRC signalling. If NAS has indicated the PLMN towards which a signalling connection is requested, and this PLMN is not in agreement with the latest PLMN information received via dedicated RRC signalling, then the initial direct transfer procedure shall be aborted, and NAS shall be informed.
- 1> if the UE, on the existing RRC connection, has not received a dedicated RRC message containing the IE "CN Information Info" , and if the IE "Multiple PLMN List" was broadcast in the cell where the current RRC connection was established:
 - 2> set the IE "PLMN identity" in the INITIAL DIRECT TRANSFER message to the multiple PLMN chosen by higher layers [5, 25] amongst the PLMNs broadcast in the cell where the RRC connection was established.
- 1> if the IE "Activated service list" within variable MBMS_ACTIVATED_SERVICES includes one or more MBMS services with the IE "Service type" set to "Multicast" and;
- 1> if the IE "CN domain identity" as indicated by the upper layers is set to "CS domain" and;
- 1> if the variable ESTABLISHED_SIGNALLING_CONNECTIONS does not include the CN domain identity 'PS domain':
 - 2> include the IE "MBMS joined information";
 - 2> include the IE "P-TMSI" within the IE "MBMS joined information" if a valid PTMSI is available.
- 1> if the variable ESTABLISHMENT_CAUSE_ is initialised:
 - 2> set the IE "Establishment cause" to the value of the variable ESTABLISHMENT_CAUSE;
 - 2> clear the variable ESTABLISHMENT_CAUSE.
- 1> calculate the START according to subclause 8.5.9 for the CN domain as set in the IE "CN Domain Identity"; and
- 1> include the calculated START value for that CN domain in the IE "START".

The UE shall:

- 1> transmit the INITIAL DIRECT TRANSFER message on the uplink DCCH using AM RLC on signalling radio bearer RB3;
- 1> when the INITIAL DIRECT TRANSFER message has been submitted to lower layers for transmission:
 - 2> confirm the establishment of a signalling connection to upper layers; and
 - 2> add the signalling connection with the identity indicated by the IE "CN domain identity" in the variable ESTABLISHED_SIGNALLING_CONNECTIONS.
- 1> when the successful delivery of the INITIAL DIRECT TRANSFER message has been confirmed by RLC:

2> the procedure ends.

When not stated otherwise elsewhere, the UE may also initiate the initial direct transfer procedure when another procedure is ongoing, and in that case the state of the latter procedure shall not be affected.

A new signalling connection request may be received from upper layers during transition to idle mode. In those cases, from the time of the indication of release to upper layers until the UE has entered idle mode, any such upper layer request to establish a new signalling connection shall be queued. This request shall be processed after the UE has entered idle mode.

CHANGE REQUEST

⌘ **25.331 CR 2611** ⌘ 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:	⌘ Correction to network sharing		
Source:	⌘ RAN WG2		
Work item code:	⌘ NTShar-UTRANEnh	Date:	⌘ May 2005
Category:	⌘ F	Release:	⌘ Rel-6
	<i>Use <u>one</u> of the following categories:</i> 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 .		<i>Use <u>one</u> of the following releases:</i> 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 8.1.8, it is specified multiple PLMN can be set in IDT, which is not true based on the IDT format in 10.2.16c and it also can cause misinterpretation that the chosen PLMN is limited to the PLMN's listed in the IE "Multiple PLMNs" in (10.3.1.7a), whereas also the MIB PLMN Identity can be indicated as the chosen PLMN if allowed by 10.3.1.7a.
Summary of change:	⌘ In 8.1.8, 'multiple' shall be removed from the following sentence. 2> set the IE "PLMN identity" in the INITIAL DIRECT TRANSFER message to the multiple PLMN chosen by higher layers [5, 25] amongst the PLMNs broadcast in the cell where the RRC connection was established.
Consequences if not approved:	⌘ Not correct description remains.

Clauses affected:	⌘ 8.1.8								
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px;"></td> </tr> </table>	Y	N					Other core specifications	⌘
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