3GPP TSG CN Plenary Meeting #17
4th - 6th September 2002. Biarritz, France.

NP-020485

3GPP TSG-CN1 Meeting #25
Helsinki, Finland, 29 July – 2 August

Tdoc N1-021801
Revision of N1-021593

CR-Form-v7

CHANGE REQUEST

| | ⌘ | **24.229** CR **154** | ⌘**rev** **2** | ⌘ | Current version: | **5.1.0** | ⌘ |

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 [X]

Title:	⌘	Explicit listing of need to route response messages
Source:	⌘	Nokia, Siemens, Lucent

Work item code:⌘	IMS-CCR		***Date:*** ⌘	05-09-2002

Category:	⌘	**F**		***Release:*** ⌘	REL-5

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:	⌘	It is stated in some cases that the response messages should be forwarded to the UE. However,in some places this is not stated.
Summary of change:⌘		Add explicit statements that the responses need to be forwarded.
Consequences if not approved:	⌘	It may be interpreted that some messages do not need to be forwarded.

Clauses affected:	⌘	5.2.6.3

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

5.2.6.3 Requests initiated by the UE

When the P-CSCF receives an initial request for a dialog or a request for a standalone transaction, and the request contains as P-Asserted-Identity header that matches one of the registered public user identities, the P-CSCF shall identify the initiator of the request by that public user identity.

When the P-CSCF receives an initial request for a dialog or a request for a standalone transaction, and the request contains as P-Asserted-Identity header that does not match one of the registered public user identities, or does not contain a P-Asserted-Identity header, the P-CSCF shall identify the initiator of the request by a default public user identity.

> NOTE: The contents of the From header do not form any part of this decision process.

When the P-CSCF receives from the UE an initial request for a dialog, and a P-Service-Route header list exists for the initiator of the request, the P-CSCF shall:

- remove any Route header from the request;

- select the list of Route headers that was created during the registration or reregistration of the respective public user identity utilizing the P-Service-Route mechanism;

- pre-load the list of Route headers to the request;

- create a Record-Route header containing its own SIP URL;

- insert a P-Asserted-Identity header with a value representing the initiator of the request;

- create a new, globally unique value for the icid parameter and insert it into the P-Charging-Vector header; and

- forward the request based on the topmost Route header.

When the P-CSCF receives a 1xx or 2xx response to the above request, the P-CSCF shall:

- store the values received in the P-Charging-Function-Addresses header;

- remove the list of Record-Route headers from the received response;

- create a new list of stored Route headers, with the newly received list of Record-Route headers. The Contact header received in the response shall not be appended to the bottom of the stored list of Route headers;

- store the dialog ID and associate it with the private user identity and public user identity involved in the session; and

- save the Contact header received in the response in order to release the dialog if needed; and

- forward the response to the UE.

When the P-CSCF receives any other response to the above request, the P-CSCF shall:

- remove any list of Record-Route headers, even though not allowed, from the received response; and

- forward the response it to the UE.

When the P-CSCF receives from the UE a refresh request for a dialog, the P-CSCF shall:

- remove any Route header from the request;

- select the list of Route headers that was created during the exchange of the initial request and its associated response;

- pre-load the list of Route headers to the request;

- create a Record-Route header containing its own SIP URL;

- verify if the request relates to a dialog in which the originator of the request is involved. If the request does not relates to a dialog in which the originator is involved, then a 403 response shall be sent back to the originator; and

- forward the request based on the topmost Route header.

When the P-CSCF receives a 1xx or 2xx response to the above request, the P-CSCF shall:

- remove the list of Record-Route headers from the received response;

- overwrite any existing list of stored Route headers, or create a new list of stored Route headers, with the newly received list of Record-Route headers. The Contact header received in the response shall not be appended to the bottom of the stored list of Route headers; and

- ——save the Contact header received in the response in order to release the dialog if needed; and

- forward the response to the UE..

When the P-CSCF receives any other response to the above request, the P-CSCF shall:

- remove any list of Record-Route headers, even though not allowed, from the received response; and

- forward the responseit to the UE.

When the P-CSCF receives from the UE the request for a standalone transaction, and a P-Service-Route header list exists for the initiator of the request, the P-CSCF shall:

- remove any Route header from the request;

- select the list of Route headers that was created during the registration or reregistration of the respective public user identity utilizing the P-Service-Route mechanism;

- pre-load the list of Route headers to the request;

- insert a P-Asserted-Identity header with a value representing the initiator of the request;

- create a new, globally unique value for the icid parameter and insert it into the P-Charging-Vector header; and

- forward the request based on the topmost Route header.

When the P-CSCF receives any response to the above request, the P-CSCF shall:

- store the values received in the P-Charging-Function-Addresses header; and

- remove any list of Record-Route headers, even though not allowed, from the received response and forward it to the UE.

When the P-CSCF receives from the UE subsequent requests other than a refreshing request that pertains to an existing dialog, the P-CSCF shall:

- select the list of Route headers that was created during the exchange of the initial request and associated response for this call;

- pre-load the list of Route headers to the request;

- verify if the request relates to a dialog in which the originator of the request is involved. If the request does not relate to a dialog in which the originator is involved, then a 403 response shall be sent back to the originator; and

- forward the request based on the topmost Route header.

When the P-CSCF receives any response to the above request, the P-CSCF shall:

- verify if the request relates to a dialog in which the originator of the request is involved.. If the request does not relates to a dialog in which the originator is involved, then a 403 response shall be sent back to the originator; and

- remove any list of Record-Route headers, valid or not, from the received response; and

- forward the response~~it~~ to the UE.

When the P-CSCF receives from the UE an initial request for a dialog, a refresh request for a dialog, or the request of a standalone transaction, and a P-Service-Route header list does not exist for the initiator of the request, the P-CSCF shall:

- send a 403 Forbidden response back to the UE containing a warning header.

    Editor's Note: how to find out whether the user has a valid registration in the P-CSCF is FFS.

    Editor's Note: The correct value for the warning code is yet to be assigned by IANA.

When the P-CSCF receives from the UE the request for an unknown method, and a P-Service-Route header list exists for the initiator of the request, the P-CSCF shall:

- select the list of Route headers that was created during the registration or reregistration of the respective public user identity utilizing the P-Service-Route mechanism;

- pre-load the list of Route headers to the request,

- insert an P-Asserted-Identity header with a value representing the initiator of the request; and

- forward the request based on the topmost Route header.

When the P-CSCF receives any response to the above request, the P-CSCF shall:

- remove any list of Record-Route headers, even though invalid, from the received response; and

- forward the response~~it~~ to the UE.

When the P-CSCF receives any request or response from the UE, the P-CSCF shall:

- remove the <charging-vector> XML element (see subclause 7.6), if present, from the message body of the received request or response.