

**Source:** TSG CN WG 1  
**Title:** CR to Rel-5 (with mirror CR) on Work Item IMS-CCR towards 24.229,- pack 2  
**Agenda item:** 8.1  
**Document for:** APPROVAL

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**Introduction:**

This document contains 2 CRs, **Rel-5 (with mirror CR)** on Work Item "IMS-CCR", that have been agreed by **TSG CN WG1 in CN1#33 meeting**, and are forwarded to TSG CN Plenary meeting #23 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
24.229	601	1	Rel-5	Missing statements regarding P-Charging-Function-Addresses	F	5.7.0	5.8.0	N1-040403
24.229	602	1	Rel-6	Missing statements regarding P-Charging-Function-Addresses	A	6.1.0	6.2.0	N1-040404

CR-Form-v7

## CHANGE REQUEST

⌘ 24.229 CR 601 ⌘ rev 1- ⌘ Current version: 5.7.0 ⌘

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

<b>Title:</b>	⌘ Missing statements regarding P-Charging-Function-Addresses		
<b>Source:</b>	⌘ Orange		
<b>Work item code:</b>	⌘ IMS-CCR	<b>Date:</b>	⌘ 19/01/2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-5
	Use <u>one</u> of the following categories: <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> .		Use <u>one</u> 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>	⌘ There are different missing statements in TS24.229 regarding the P-Charging-Function-Addresses header inclusion or removal make the specification inconsistent.		
<b>Summary of change:</b>	⌘ The following changes are made. - This header has to be included by the S-CSCF in the 200 OK message of the Register request (it is already indicated that itthe P-CSCF has to store the value of this header), - I-CSCF shall remove this header from the 200 OK when P-CSCF is in different network compared to S-CSCF and also when topology hiding applies.		
<b>Consequences if not approved:</b>	⌘ Inconsistent specification and misalignement with stage 2		

<b>Clauses affected:</b>	⌘ 5.3.2.1, 5.3.3.1, 5.4.1.2.2										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
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<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.









CR-Form-v7

## CHANGE REQUEST

⌘ **24.229 CR 602** ⌘ rev **1-** ⌘ Current version: **6.1.0** ⌘

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

<b>Title:</b>	⌘ Missing statements regarding P-Charging-Function-Addresses		
<b>Source:</b>	⌘ Orange		
<b>Work item code:</b>	⌘ IMS-CCR	<b>Date:</b>	⌘ 26/01/2004
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ Rel-6
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	<b>F</b> (correction)	2	(GSM Phase 2)
	<b>A</b> (corresponds to a correction in an earlier release)	R96	(Release 1996)
	<b>B</b> (addition of feature),	R97	(Release 1997)
	<b>C</b> (functional modification of feature)	R98	(Release 1998)
	<b>D</b> (editorial modification)	R99	(Release 1999)
	Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ There are different missing statements in TS24.229 regarding the P-Charging-Function-Addresses header inclusion or removal make the specification inconsistent.
<b>Summary of change:</b>	⌘ The following changes are made. <ul style="list-style-type: none"> <li>- This header has to be included by the S-CSCF in the 200 OK message of the Register request (it is already indicated that itthe P-CSCF has to store the value of this header),</li> <li>- I-CSCF shall remove this header from the 200 OK when P-CSCF is in different network compared to S-CSCF and also when topology hiding applies.</li> </ul>
<b>Consequences if not approved:</b>	⌘ Inconsistent specification and misalignement with stage 2

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<b>Other comments:</b>	⌘										

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proceed with the following steps if the challenge response received from the UE and the expected response calculated by the S-CSCF match;

- 5) after performing the Cx Server Assignment procedure with the HSS, as described in 3GPP TS 29.229 [15], store the following information in the local data:
  - a) the list of public user identities associated to the user, including the own public user identity under registration and the implicitly registered due to the received REGISTER request. Each public user identity is identified as either barred or non-barred; and,
  - b) all the service profile(s) corresponding to the public user identities being registered (explicitly or implicitly), including initial Filter Criteria;

NOTE 1: There might be more than one set of initial Filter Criteria received because some implicitly registered public user identities that are part of the same user's subscription may belong to different service profiles.

- 6) bind to each non-barred registered public user identity all registered contact information and store the related method tag values from the Contact header for future use;

NOTE 2: There might be more than one contact information available for one public user identity.

NOTE 3: The barred public user identities are not bound to the contact information.

- 7) check whether a Path header was included in the REGISTER request and construct a list of preloaded Route headers from the list of entries in the Path header. The S-CSCF shall preserve the order of the preloaded Route headers and bind them to the contact information that was received in the REGISTER message;

NOTE 4: If this registration is a reregistration, then a list of pre-loaded Route headers will already exist. The new list replaces the old list.

- 8) determine the duration of the registration by checking the value of the Expires header in the received REGISTER request. The S-CSCF may reduce the duration of the registration due to local policy or send back a 423 (Interval Too Brief) response specifying the minimum allowed time for registration;
- 9) store the icid parameter received in the P-Charging-Vector header;
- 10) create a 200 (OK) response for the REGISTER request, including:

- a) the list of received Path headers;
- b) a P-Associated-URI header containing the list of public user identities that the user is authorized to use. The first URI in the list of public user identities supplied by the HSS to the S-CSCF will indicate the default public user identity to be used by the S-CSCF. The public user identity indicated as the default public user identity must be an already registered public user identity. The S-CSCF shall place the default public user identity as a first entry in the list of URIs present in the P-Associated-URI header. The default public user identity will be used by the P-CSCF in conjunction with the procedures for the P-Asserted-Identity header, as described in subclause 5.2.6.3. The S-CSCF shall not add a barred public user identity to the list of URIs in the P-Associated-URI header;
- c) a Service-Route header containing:
  - the SIP URI identifying the S-CSCF containing an indication that requests routed via the service route (i.e. from the P-CSCF to the S-CSCF) are treated as for the mobile-originating case. This indication may e.g. be in a URI parameter, a character string in the user part of the URI or be a port number in the URI; and,
  - if network topology hiding is required a SIP URI identifying an I-CSCF (THIG) as the topmost entry;

d) a P-Charging-Function-Addresses header containing the values received from the HSS;

- 11) send the so created 200 (OK) response to the UE;

- 12) send a third-party REGISTER request, as described in subclause 5.4.1.7, to each AS that matches the Filter Criteria from the HSS for the REGISTER event; and,

NOTE 5: If this registration is a reregistration, the Filter Criteria already exists in the local data.

