3GPP TSG CN Plenary Meeting #18 4th - 6th December 2002. New Orleans, USA.

NP-020554

Source: TSG CN WG 1

Title: CR to Rel-5 on Work Item IMS-CCR towards 23.218,- pack 3

Agenda item: 8.1

Document for: APPROVAL

Introduction:

This document contains 1 CR, Rel-5 Work Item "IMS-CCR", that have been agreed by TSG CN WG1, and are forwarded to TSG CN Plenary meeting #18 for approval.

Spec	CR#	Re v	CA T	Rel	Tdoc Title	Meeting	TDoc#	C_Version
23.218	037	1	F	Rel- 5	Clarification on Sh interface for charging purposes	N1-27	N1-022464	5.2.0

Bangkok, Inaliand, 11-15 November									
CHANGE REQUEST									
*	23.218 CR 037 # rev 1 #	Current version: 5.2.0 **							
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 a	affects: UICC apps器 ME Radio Ad	ccess Network Core Network X							
Title: 第	# Clarification on Sh interface for charging purposes								
Source: #	NEC Corporation								
Work item code: ₩	IMS-CCR	<i>Date:</i> # 05/11/2002							
Category: #	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.	R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)							
Reason for change: Since several CN1 meetings ago, exchange of LS between SA5 and CN1 regarding this topic was communicated. However, discussion was left out SA2 decision and there was no clear decision done yet between CN1 and SA5. According to the LS, there is requirement that Sh interface is used for charging purposes. During the Rel 6 discussion in SA2, there was apparent requirement for 3GPP AAA server, 3GPP Proxy or Presence server, Presence List Server need to retrieve the CCF/ECF addresses from HSS to access to CCF/ECF for offline/online charging purposes. For the forward compatibility, it is better to fulfil this requirement for Rel 5.									
Summary of chang	In 6.8 and 9.4.5, it is added that there is a cacharging purposes.	ase that Sh interface is used for							
Consequences if not approved:	For IMS charging mechanism, it may cause I Rel 6.	backward compatibility problem in							
Clauses affected:	% 7.2.2, 9.4.5								
Other specs affected:	Y N X Other core specifications # 24.2 X Test specifications O&M Specifications	29, 29.329							
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:

- 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.

Start of first change

7.2 Interfaces defined for HSS

7.2.1 HSS – CSCF (Cx) interface

This interface is used to send subscriber data to the S-CSCF, including Filter Criteria (and their priority); which indicates which SIP requests should be proxied to which Application Servers.

The protocol used between the HSS and CSCF (Cx Interface) is specified in 3GPP TS 29.228 [8] and 3GPP TS 29.229 [17].

7.2.2 HSS - Application Server (Sh) interface

The Sh interface is between the HSS and the SIP Application Servers and the OSA SCS and may be used for transferring User Profile information or charging addresses.

The protocol used between the HSS and AS (Sh Interface) is specified in 3GPP TS 29.328 [18] and 3GPP TS 29.329 [19].

7.2.3 HSS – CSE interface

The protocol used on the interface between the HSS and the CAMEL Service Environment (CSE) is the MAP protocol [16].

End of first change

Start of second change

9.4.5 Application server handling of IP multimedia session charging

If an application server receives a third party REGISTER from the S-CSCF carrying the ICID, IOI and charging function addresses, the application server may store these parameters for charging purposes. In a session originating case, when processing an incoming initial request carrying the ICID, IOI, GPRS charging information and charging function addresses for this session, the application server shall pass these parameters in the outgoing message and may store the parameters for charging purposes.

In a session terminating case, when processing an incoming initial request carrying the ICID, IOI, GPRS charging information and charging function addresses for this session, the application server shall pass these parameters in the outgoing message and may store the parameters for charging purposes.

When the application server is acting as an originating user agent as described in clause 9.1.1.2 and initiates a session or a stand-alone transaction, it shall generate ICID itself . The application server may retrieve the charging addresses on Sh interface

For detailed information on transporting charging parameters between IMS entities using SIP, see 3GPP TS 24.229 [5].

End of second change