3GPP TSG CN Plenary Meeting #15
6th – 8th March 2002. Jeju, Korea.

NP-020046

Source:	**Lucent Technologies**
Title:	**Work Item Description for the Support of CAMEL by the IMS**
Agenda item:	**9.14**
Document for:	**For Approval**

<u>**Work Item Description**</u>

Title: Support of CAMEL by the IMS <mark>12000</mark>

1   3GPP Work Area

	Radio Access
X	Core Network
	Services

2   Linked work items

Related WIs are:
1. *Provisioning of IP-based Multimedia services (1273-SA1)*
2. *Call Control and Roaming to support IMS in UMTS (1274-SA2)*
3. *Call Control and Roaming to support IMS in UMTS - Stage 1 (1633-SA1)*
4. *Call Control and Roaming to support IMS in UMTS - Stage 2 (Architecture and Main Flows) (1514-SA2)*
5. *SIP Call Control protocol for the IM Subsystem (2233-CN1)*
6. *IMS Signalling Flows (TS 24.228) (1998-CN1)*
7. *IMS Session Handling; stage 2 (TS 23.218) (2255-CN1)*
8. *SDM Issues for CAMEL control of IMS (14004-CN4)*
9. *CAMEL Phase 4 (1638-SA1)*

3   Justification

        The IM-SSF network entity is specified in UMTS Release 5 as part of an IP Multimedia Subsystem network to represent the interworking between the Call Session Control Function (CSCF) and the CAMEL Server (CSE). This work item is to be used for defining the standards related for CAMEL interworking with IMS in UMTS Release 5. The Stage 2 must be specified for CAMEL interworking with IMS and this shall be done largely by SDL procedures and description of information flows between the CAMEL-related IP Multimedia Subsystem network entities. The description of the information flows shall include the specifications for the Si interface (HSS-IM-SSF). The Si interface is defined mainly to download CAMEL Subscription Information data from the HSS to the IM-SSF. Defining the protocol for the Si interface shall be a joint effort between CN2 (Stage 2) and CN4 (Protocol Specification) working groups. In addition to the SDL procedures and information flows specifications, the CAP protocol for the IM-SSF and CSE interface must also be specified.

The main justification for this Work Item is to reuse the existing CAMEL functionality built up over previous releases and added to in Rel'5 within the new IP Multimedia Subsystem architectural framework. This would be attractive for operators with an indigenous CAMEL base utilising CAMEL features in an IMS environment.

4   Objective

The objectives of this WI are:

?? To specify the stage 2 specification for CAMEL/IMS Interworking. This would include defining detection points and trigger criteria applicable for IP Multimedia CAMEL services, SDL Procedures, and descriptions of the information flows between the different CAMEL network entities. The output will be a new Technical Specification TS 23.278.

?? To specify the protocol data structures and information flows of the Si interface. The output will be the Technical Specifications containing the Stage 2 and Stage 3 specification of procedures relevant to the Si interface

?? To select a protocol, which provides the identified functionality of the Si interface to meet the requirements identified in TS 23.228 and TS 23.218.

?? To specify the CAP protocol for the IM-SSF and CSE interface. The output will be a modification to the existing Technical Specification TS 23.078.

5   Service Aspects

None.

6   MMI-Aspects

None

7   Charging Aspects

None .

8   Security Aspects

None.

9   Impacts

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No	X	X	X		X
Don't know					

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
23.278	CAMEL Phase 4 – Stage 2 IM CN Interworking	CN2		CN#14	CN#16	Stage 2 specifying the functionalities of CAMEL Phase 4 applicable for IP Multimedia Subsystems.
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
29.078		CAP Support for CAMEL Phase 4/IMS Interworking		CN#16		Stage 3 CAP specification shall be modified to indicate support of CAMEL Phase 4 for IP Multimedia Subsystems.
29.002		MAP		CN#16		This specification may be impacted.
-	-	To be determined		CN#16		Other Stage 2 and Stage 3 specifications may be impacted as a result of this Work Item
Affected existing and new IETF specifications						
-	-	To be determined		CN#17		IETF specs may be impacted as a result of this Work Item

11 Work item raporteurs

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12 Work item leadership

CN2

13 Supporting Companies

Lucent, ??

14 Classification of the WI (if known)

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14b   The WI is a Building Block: parent Feature - Provisioning of IP based multimedia services (1273).