

Source: TSG_CN
Title: SIP Call Control protocol for the IM Subsystem~~over Gm~~
~~reference point (CSCF—UE)~~
Agenda item: 7.2
Document for: APPROVAL

Work Item Description

Title: SIP Call Control protocol for the IM Subsystem~~over Gm~~
~~(CSCF—UE)~~

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

Related work items are:

1. Architecture for Call control and roaming to support IP-based multimedia services in UMTS. S2
2. Real Time QoS for packet services including VoIP. S2, N1, RAN3 etc.
3. Emergency call enhancements - IP&PS based Emergency call enhancements. N1 etc
4. Roaming support within and between IP Multi-media network and CS Domain networks.S2, N4 etc
5. Lawful interception architecture. S3 etc

3 Justification

The work item “An architecture for Call control and roaming to support IP-based multimedia services in UMTS” describes the ongoing work in 3GPP for R00, which has been initially tasked by SA to S2 under the “all-IP option” by SA#4 (6/99). Impacts on SIP to transport QoS parameters on an intra-PLMN, as well as end-to-end.

The work item describes the ongoing work in 3GPP CN1 for R00.

4 Objective

The objective of this work item is to- specify the Call Control protocol for the IM Subsystem for control of IP-based-multimedia services based on the current Session Initiated Protocol, IETF RFC2543 (SIP) with required enhancements for 3GPP requirements to facilitate a multi-vendor, multi-system environment.

Stage 2 call flow descriptions and stage 3 protocol descriptions will be developed for signalling between the Mobile Station (UE) and the Core Network (S-CSCF) over the Gm, Mw, Mm and Mg reference points based upon the SIP Call Control Protocol-. 3GPP SIP extensions should only be provided when deemed absolutely necessary.

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New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
23.1xx	<stage 2 for the IP Multimedia Call Control based on SIP (Detailed flows to expand on the Architectural stage 2 >	N1		CN#1210	CN#1411	Stage 2 <u>specifying</u> describing the information flows between the UE and S- CSCF on the Gm, Mw, Mg and Mm reference points in relation to UMTS specific traffic cases e.g. interaction between lower layer access signalling (GPRS Session Management – SM, GPRS Mobility Management - GMM etc.) and SIP call control protocol. Impact to user plane radio resource allocation procedures, handover/SRNS relocation procedures etc. S2's stage 2 will cover the architecture and CN1 will cover the detailed information flows.
24.1xx	<stage 3 for the IP Multimedia Call Control based on SIP>	N1		CN#1310	CN#1411	Stage 3 <u>specifying</u> describing the UMTS specific protocol impacts on the Gm, Mw, Mg and Mm reference points e.g. any <u>detailed</u> <u>message definition and</u> <u>any enhancements</u> required to SIP
Ed comment: there will be potentially other new specs, including Stage 3s, yet to be identified						
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary #		Comments
Ed comment: further impacts to R99 specifications to be identified						

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12 Work item leadership

N1

13 Supporting Companies

Lucent, T-Mobil, BT, Ericsson, Vodafone, Motorola, CSELT, Nortel Networks,
Nokia.

14 Classification of the WI (if known)

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

14b The WI is a Work Task (14c).