

3GPP TSG-CN-WG1, Meeting #13  
14-18 August, 2000  
Vancouver/Canada

Tdoc N1-000856  
Tdoc N1-000853  
Tdoc N1-000843

**Source:** TSG\_N WG 1  
**Title:** SIP Call Control protocol over Gm reference point (CSCF – UE)  
**Agenda item:** 7.2  
**Document for:** APPROVAL

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### Work Item Description

**Title:** SIP Call Control protocol over Gm reference point (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 is to ~~define a~~ specify the Call Control protocol for the IP-based multimedia services based ~~on the current~~ around Session Initiated Protocol, IETF RFC2543 (SIP) with required ~~enhancements for mobility~~ 3GPP requirements ~~3GPP specific modifications~~.

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) based upon the SIP Call Control Protocol .



New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
23.1xxx	<stage 2 for the IP Multimedia Call Control based on SIP (Detailed flows to expand on the Architectural stage 2 >	N1	S2	CN#10	CN#11	Stage 2 describing the information flows between the UE and S- CSCF on the Gm reference point 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. <u>S2's stage 2 will cover the architecture and CN1 will cover the detailed information flows.</u>
24.1xxx	<stage 3 for the IP Multimedia Call Control based on SIP>	N1		CN#10	CN#11	Stage 3 describing the UMTS specific protocol impacts on the Gm reference point e.g. any enhancements 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						

11 Work item raporteurs

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**3GPP TSG\_CN  
Plenary Meeting #9, Oahu, Hawaii  
20<sup>th</sup> – 22<sup>nd</sup> September 2000.**

**Tdoc NP-000434**

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**12 Work item leadership**

N1

**13 Supporting Companies**

Lucent, T-Mobil, BT, Ericsson, Vodafone, Motorola, CSELT

**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).