

3GPP TSG SA WG 3 (Security) meeting #11
Mainz, 22-24 January, 2000

S3-000164

ETSI SMG9 Meeting #20
Rome, Italy, 18 - 21 January, 2000

Tdoc 9-00-0158

Liaison Statement

Source: SMG9

To: S1 and S3

Title: New SIM toolkit feature: "Auto-answer & Mute-ringing"

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SMG9 reviewed at its Rome plenary meeting a proposal to have a new SIM Toolkit feature for R2000, called "Auto-Answer and mute ringing" : see attached doc 9-00-0039.

This feature would allow a SAT application to ask the mobile to disable "ringing" (alerting, in fact) when receiving a call, and to answer to it automatically. It would simplify the MMI in the case of a call-back service as the one which is described in Tdoc 9-00-0039.

Before commencing work on this feature, SMG9 would like to ask S1 for their comments regarding this new service requirement and S3 for their comments regarding potential privacy issues.

Source : Gemplus

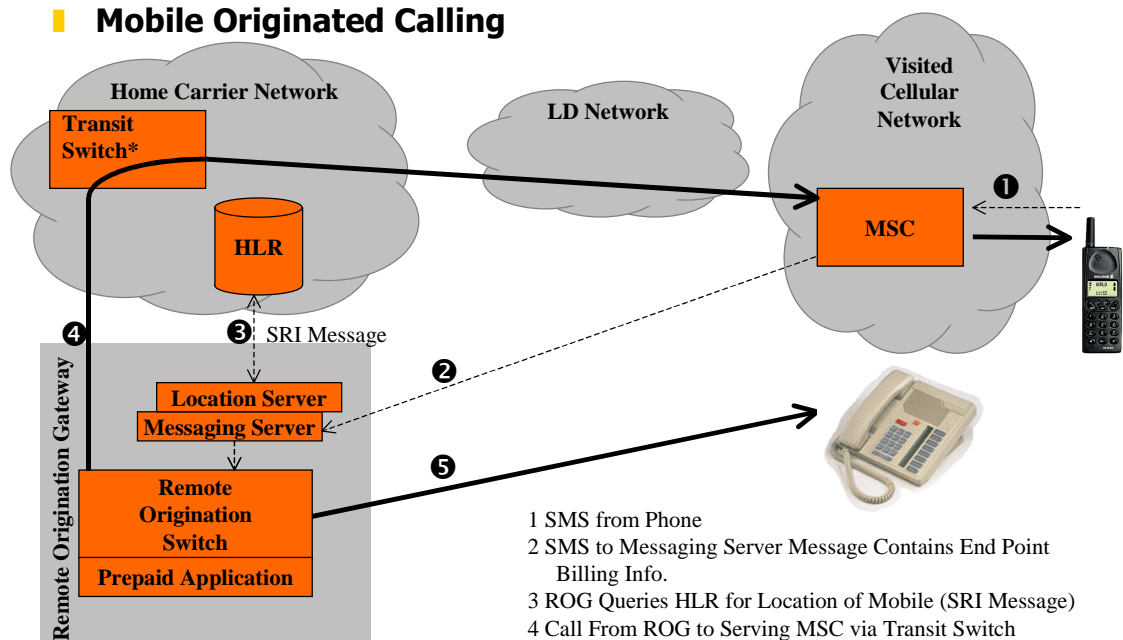
Proposition of Auto-Answer and Mute-ringing STK feature

We are proposing to SMG9 to add an "Auto-Answer and Mute-ringing" functionality to the SIM Toolkit GSM 11.14 specification. The aim of these change requests is to allow the implementation of a seamless "World-Wide Prepaid" service that is network based but automated using SIM Toolkit. This service does not require special network capabilities (see figure 1 hereunder) and offers all the advantages of a network-based prepaid solution without the complexities of more traditional solutions.

FIGURE 1 – WORLDWIDE PREPAID

Architecture - Worldwide Prepaid (WPP)

Mobile Originated Calling



*Typically a GMSC providing transit functionality

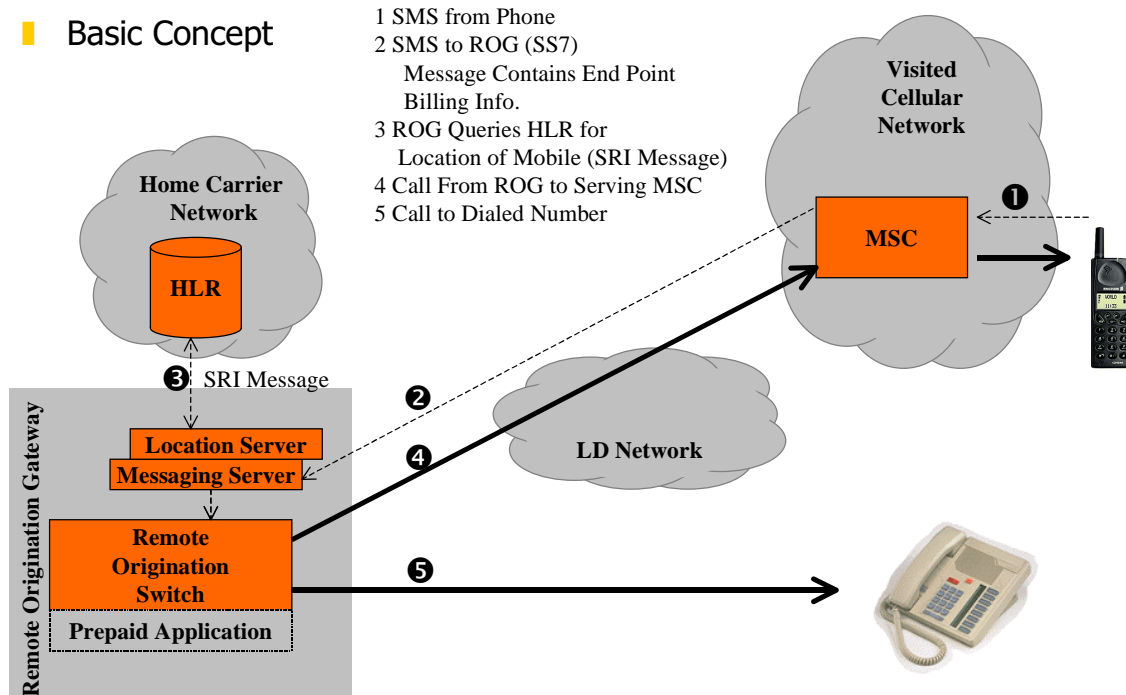
The functionality will also make possible the implementation of a “Home Carrier Control” service that will allow a home cellular carrier to control and route all traffic for its customers while they are roaming (see figure 2).

FIGURE 2 – HOME CARRIER CONTROL

Architecture - Home Carrier Control (HCC)

Basic Concept

- 1 SMS from Phone
- 2 SMS to ROG (SS7)
Message Contains End Point
Billing Info.
- 3 ROG Queries HLR for
Location of Mobile (SRI Message)
- 4 Call From ROG to Serving MSC
- 5 Call to Dialed Number



Without this functionality, users of the “World-wide Prepaid” and “Home Carrier Control” services will be required to answer an incoming call after they have dialed a phone number in order to complete a call.

Please find the corresponding CR on GSM 11.14 in 9-99-0048 and GSM 11.11 in 9-99-0049