

Liaison To: TSG-SA, TSG-T
From: TSG-S4
cc: S1, S2, S3, T2
Subject: Response LS to TSG-SA on Call Control Applications in External Devices

TSG-S4 would like to thank TSG-SA for their Liaison regarding the location of Call Control Applications in External Devices (SP-000370) and for forwarding the original LS from TSG-T contained in SP-000313.

S4 was surprised to read in the original LS from TSG-T the following sentence:

It is understood that S4 is already investigating the split of multimedia calling in Release 99 to include a model where all call control is handled by an external TE (e.g. PC) so this could be also relevant to Release 99 scenarios where we have Circuit Switched Multimedia calls.

S4 would like to clarify that it has never intended to specify or even assume a specific distribution of the Call Control Functions between Mobile Equipment (ME) and External Devices or Terminal Equipment (TE).

S4 believe that the definition of the functional distribution between ME and TE is the responsibility of S2 and will conform to any S2 decision in that matter.

S4 has prepared few specifications related to the support of Circuit Switched H.324 Based Multimedia Telephony (3G-324M) service in Release 99, but these specifications are primary intended to guide implementers in order to promote an harmonized introduction of CS Multimedia in 3G networks (Video Telephony essentially). To that purpose, the related specifications contain a number of recommendations on the preferred codecs and associated protocol options among those included in the ITU-T H.324 recommendation.

To complement this work, S4 prepared a set of Call Control requirements for the support of 3G-324M Terminals in 3G networks. This input, initially contained in 3G TS 26.112, was forwarded for comments and action to TSG-N1 and the content transferred by TSG-N1 in the relevant CN specifications (3G TS 24.008...).

On this basis, S4 believe that R99 3G Terminals should be able to provide CS Multimedia services under multiple operational scenarios, but with the ME always serving as the Modem responsible for the UTRAN Call Control functions, while the 3G-324M application could be either resident or external to the Mobile Equipment. In both cases, the ME would be responsible for the establishment of the necessary Data Service over the Air Interface with the required security level, while the application would be responsible for the end-to-end negotiation of the Video Codec, Audio Codecs and associated protocol/multiplexing functions as a function of the end terminals capabilities.

The following figures illustrate these basic scenarios:

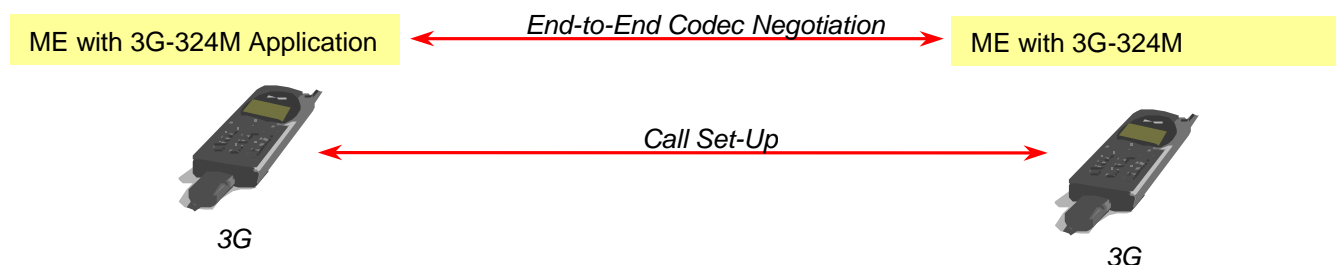


Figure 1: 3G-324M Call Configuration involving two UE supporting a 3G-324M application

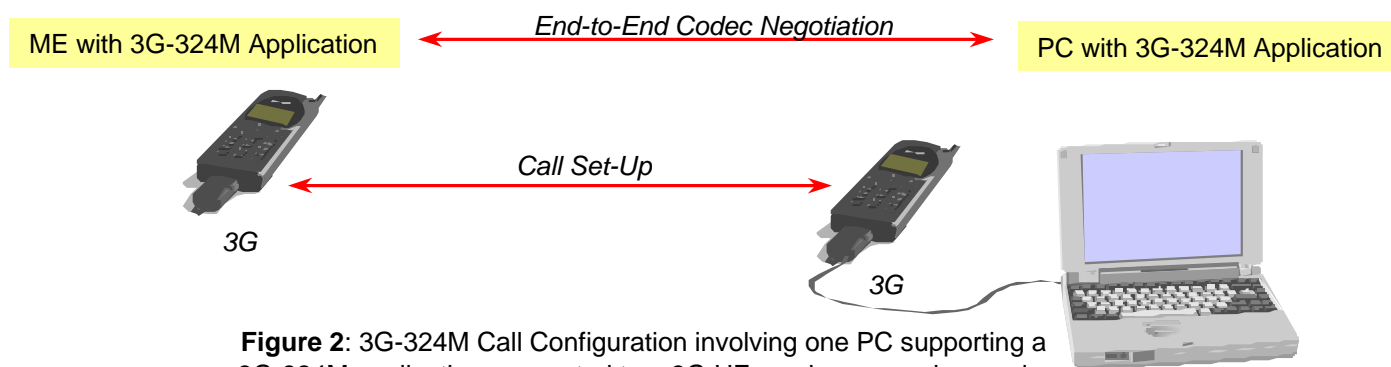


Figure 2: 3G-324M Call Configuration involving one PC supporting a 3G-324M application connected to a 3G UE serving as modem and a 3G UE also supporting a 3G-324M application

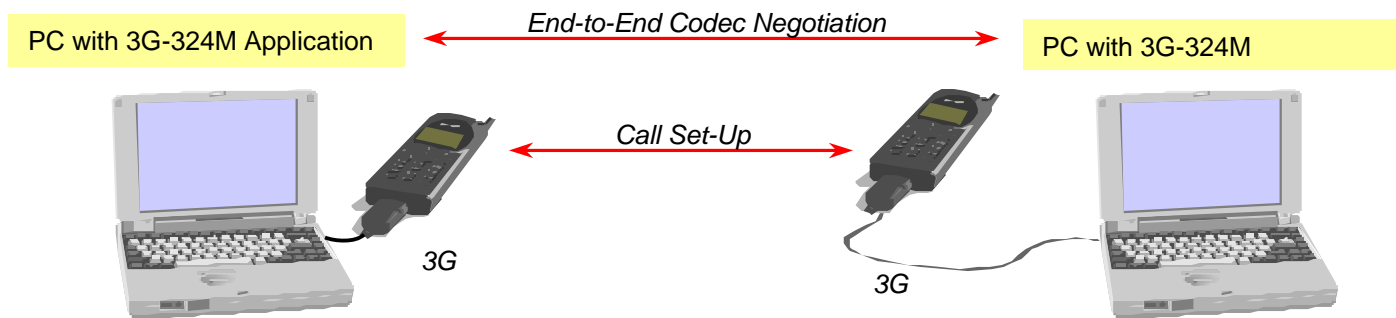


Figure 3: 3G-324M Call Configuration involving two PC supporting a 3G-324M application connected to 3G UEs serving as modems

TSG-S4 would welcome any input or comment on this issue and would gladly update the 3G-324M specifications if felt necessary.