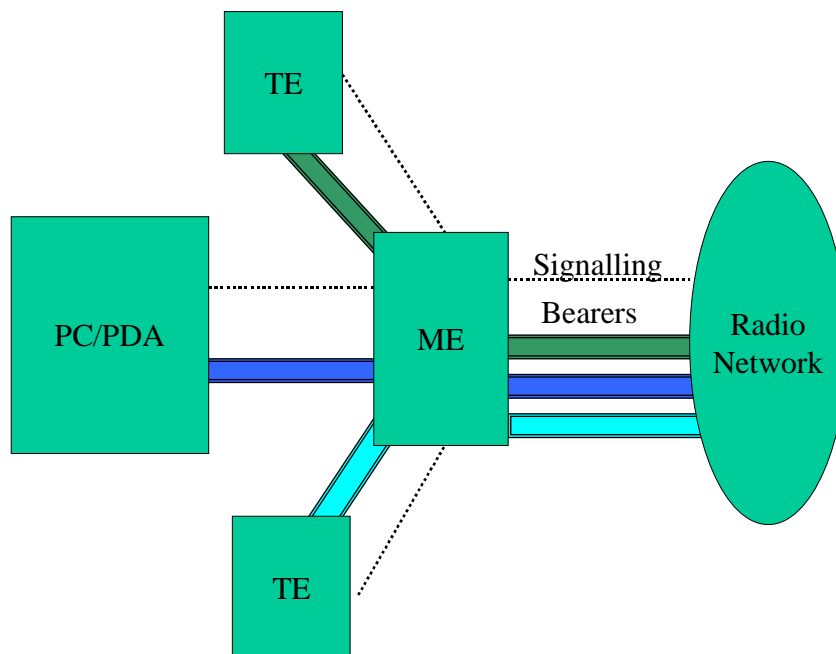


LIAISON STATEMENT

To: TSG-SA
Source: TSG-T
Title: Requirements and Scenarios for Call Handling

In the All-IP network, the UE will be required to set up multiple connections with different QoS requirements for different data streams (e.g. signalling, traffic bearers etc.). The issues described in this paper apply to scenarios outside of “All-IP”, however it is the “All-IP” network which has caused some discussion in TSG-T.

TSG-T is concerned that the overall framework development has not so far included analysis of the potential for split of functions between the different components of the UE.



The above diagram illustrates an ME connected to a radio network with different TE devices requiring different bearer and signalling capabilities from the ME.

Some questions in this area, which illustrate the problem space are:

1. Is it permitted to use the ME simply as a bitpipe and have an external TE (e.g. PC software) be in control of set up, clear down and manipulation of speech and multimedia calls?
2. What are the user requirements where the UE functions are divided between ME and TE, and which scenarios are required to be supported?

3. How do we maintain security of the network and guarantee proper functionality, if we transfer all the call control functionality out of the ME and into a device whose software can easily be manipulated? How do we avoid denial of service attacks or other security attacks eg. by computing devices (possibly controlled by viruses) instructing the ME to make repeated call attempts into the radio network?
4. What happens to the certification and compliance schemes for the ME if the call control in the ME can be completely bypassed?

In order for TSG-T to understand the problem space with respect to the terminal, and understand the requirements for work items (if any) in this area it is necessary for the required service scenarios and framework to be established by TSG-SA.

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.

SA is invited to discuss and consider a work plan to further develop the scenarios which we want to support. In addition to the service scenarios mentioned above it is believed that amongst others this will require discussions on architecture and security aspects in the relevant working groups.