Abstract - This panel will focus on the security and reliability challenges posed by distributed, mobile tele-health solutions (particularly those based on mobile phones). Academic, clinical, as well as industry panelists with direct experience in the design and implementation of mobile tele-health solutions will provide insights on how these challenges have been addressed thus far, and what are some of the areas for improvement. Panelists will also discuss the required organizational, policy, and technological changes that must take place to allow these emerging solutions to become ubiquitous.

Index Terms — Mobile Tele-Health, Chronic Disease, Mobile Disease Management, Mobile Computing and Communication Devices.

I. INTRODUCTION

This panel will present a summary of the experiences to date of users of Motorola’s MOTOHEALTH platform, a system that leverages Mobile Computing and Communication Devices (“MCCDs”) as part of a Mobile Tele-Health (“mTH”) solutions used in the management of chronic diseases. [1] outlines some of the benefits of MCCDs that make them suitable for use in applications such as mTH. Even though some challenges have been identified in this area, MCCDs can help to alleviate some of the demographic and financial burdens imposed on the healthcare systems today [2].

mTH is not just about providing remote access to a physician (the traditional version of tele-medicine). mTH is centered on the notion of the patient’s body as the point of care.

The diagram below illustrates the core elements of Motorola’s MOTOHEALTH mobile tele-health platform.

II. PANELISTS

Dr. Josep Roca (Hospital Clinic; Barcelona, Spain) provides a practitioner’s perspective as to the most relevant issues in terms of designing good quality systems for mobile tele-health.

Prof. Francisco Del Pozo (Universidad Politecnica de Madrid; Madrid, Spain) will provide a roadmap for the design of secure interfaces to Electronic Medical Records (“EMRs”).

Prof. Robert S. H. Istepanian (Kingston University; London, UK) will propose a framework to secure the wireless pipe when transmitting medical information over the air, and how current (and future) m-health platforms need to address this issue.

Mr. Douglas J. McClure (Partners Telemedicine; Boston, US) will outline, from a corporate healthcare perspective, what he sees as the most pressing issues when deploying mobile tele-health systems into a large corporate environment.

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The author dedicates this paper to his 03 young children.

REFERENCES
