

# Rapid Mobile Technologies, Inc.

## Mobile Network Emulation Technology

Rapid Mobile Technologies, Inc. (RAMOBITECH) is a mobile platforms and emulation technologies company focusing on its patented 3G/4G wireless emulation platform and wireless network protocols for an "All-IP" environment. Their emulation environments facilitate testing wireless broadband platforms efficiently and effectively by providing realistic scenario conditions unable to be reached by simplified simulation environments.

### Technology

"Drive tests" are empirical methods designed to move a device around town, usually a contractor in a minivan, and verify mobile software and hardware functionality. Drive tests are inaccurate and difficult to reproduce. They are also time-consuming, costly, and may not be used during early stages of design.

Rapid Mobile Network Emulator (RAMON) enables engineers to create predictable wireless emulation environments where mobile software can be tested, enhanced, and defects can be found at an early stage of development in a controlled environment. This technology allows telecommunication engineers to design products, applications, and protocols under realistic scenarios. RAMON can also be used to perform certification acceptance test cases for a carrier or device manufacturer. RAMON is suitable for 3G/4G networks, as it is capable of emulating handovers and IP connectivity variations including error rates, delays, network congestion, and mobile device speed and trajectory.

RAMON replicates mobile scenarios by emulating the placement of base stations at configurable locations and replicating conditions of speed as well as mobile routes. RAMON uses programmable attenuation technology and software logic to recreate a mapped scenario or "playback" previously captured conditions matching a sequence of cells or hotspots. RAMON also emulates Mobile IP by integrating data and packet data mobility conditions. The Rapid Mobile Network Emulation device recreates realistic wireless conditions which can then be used on:

- Web Applications: Android, iPhone on 3G/4G network
- Development of Protocols: Mobile IP
- Provide a suitable platform to develop metropolitan WIFI/WIMAX and VoIP Clients
- Tweak and improve buffering and flow control with mobility
- GPS-based signal strength can map realistic carrier deployments

### Market Potential

The growth of mobile applications is expected to grow to \$2 to 3 billion by 2010. Rapid Mobile expects to capitalize in this market by providing its specification and software emulation environments to an evolving mobile econ-system. The mobile test equipment market is expected to reach \$1.6 billion by 2008-2009. The proliferation of mobile applications and the development of mobile devices makes mobile emulation in demand for wireless carriers, mobile software developers, and manufacturers.



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## Strategy

Rapid Mobile plans to partner with equipment providers and phone manufacturers to penetrate this market. Target companies, for the mobile emulation specification include device manufacturers (Motorola, Nokia, LG, HTC, Sony Ericsson), wireless test equipment manufacturers (Agilent, Azimuth Systems, Aeroflex, etc.), mobile testing and conformance sites (DeviceAnywhere, WTS, Verizon's Conformance Lab), and R&D centers (Army Research Lab, universities with academic site sub-licenses.)

A software emulation environment will penetrate this market segment by providing a virtual drive test simulation. The first proposal target is on Android's Software Development Kit (SDK). Google may license this technology to make it an official part of its SDK which it released to thousands of developers around the globe. With sufficient funding, Rapid Mobile will proceed to create Windows Mobile as well as an iPhone environment, which will open the doors to Microsoft and Apple.

## Management Team

### Edwin Hernandez, Ph.D. – CEO & CTO

Dr. Hernandez graduated in 1995 with a B.S in Electronics Engineering from the Costa Rica Institute of Technology where he developed hardware/software systems for the main data networking company in the country, RACSA. Upon graduation, he joined The Central American Telecommunications Commission, and was in charge of the creation and planning for their Internet presence. In 1996, Hernandez started COMPUNET, one of Honduras's first Internet Service Providers. He completed his M.S. and Ph.D. in Electrical and Computer Engineering at the University of Florida. Hernandez has filed 10 patents.

### Abdelsalam (Sumi) Helal, Ph.D. – Founder & Technical Advisor

Dr. Helal is a professor in the Computer and Information Science and Engineering Department (CISE) at the University of Florida. He directs the Mobile and Pervasive Computing Laboratory at the CISE department, and is co-founder and director of the Gator Tech Smart House, an experimental home for applied research in the domain of elder care. Helal is also founder, president and CEO of Phoneomena, Inc., a mobile application and middleware company, and president of Pervasa, Inc., a University of Florida start-up established to commercialize patented IP on sensor platforms and middleware for sensor networks.

### Mike D. Grider, Esq. – VP of Business Development

Mr. Grider is an attorney with great experience managing intellectual property agreements, trademarks, and copyright law. His knowledge and talent includes work at firms such as Paul Hastings and others.

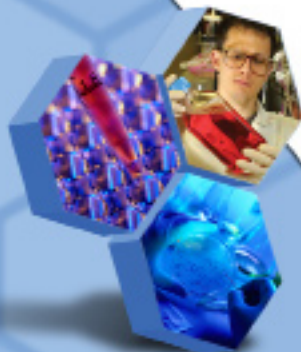
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