

## **ABSTRACT**

### **Scope and Purpose of the Modular Multifunction Information Transfer System (MMITS) Forum**

#### **MMITS Vision**

The MMITS Forum vision is to facilitate high quality, ubiquitous, competitively-priced wireless networking systems, equipment, and services with advanced capabilities. This vision includes a view of seamlessness across diverse networks and integration of capabilities in an environment of multiple standards and solutions.

Ease of use, mobility, enhanced productivity, and support for lifestyle choices are all wanted by the communications systems users. Convergency among wireless and wired services such as educational, entertainment, and information services requires improved interworking and interoperability.

Consequently, consumer of communications services, communications service providers, equipment suppliers and maintainers can benefit from open architecture coupled with the software- definable networking radio system developments espoused within MMITS. This community of interest not only includes the needs of the general public, but also includes governments, and their requirements for defense, law enforcement, and emergency services, including National Security and Emergency Preparedness.

#### **MMITS Definition**

The MMITS concept presents an open architecture for wireless networking systems. Major considerations in networking systems include software-definable radio waveform hardware and software, security, source coding, and networking protocols.

Software definable radios used adaptable software and flexible hardware platforms to address the problems that arise from the constant evolution and technical innovation in the wireless industry particularly as waveforms, modulation techniques, protocols, services, and standards change.

A software-definable radio in the MMITS content goes beyond the bounds of traditional radio and extends from the radio terminal of the subscriber or user, through and beyond the network infrastructures and supporting sub-systems and systems. MMITS as a concept spans numerous radio network technologies and services, such as cellular, PCS, mobile data, emergency services, messaging, paging, and military and government communications.

## **MMITS Forum Mission**

The mission of the open architecture MMITS Forum is to accelerate development, deployment, and use of software-definable radio system consistent with the objectives of the above wireless vision.

The MMITS Forum shall establish requirements related to the definition of internal and external system interfaces, modules, software, and functionality that the industry can use as guidelines in building modules, products, and systems.

Further, the MMITS Forum will promote the development of standards for the MMITS concepts, including those focused on MMITS equipment and those in supporting service application areas, in areas of interoperability and performance, and in underpinning core technologies. These standards will be supported either directly or through appropriate liaison to other industry associations and standards bodies. The MMITS Forum will pursue industry wide acceptance of these standards.

To assist the wireless and supporting industries in understanding the value and benefit of a software definable radio, and in particular the MMITS vision, the MMITS Forum will also address market requirements, quantify the market, and develop timelines relative to the use of multimode, multiband, and multiapplication wireless communications systems.

The MMITS Forum membership shall include telecommunications users, equipment suppliers, and developers of technology, products, systems, hardware, and software, as well as service providers and system operators or any other individual, organization, or entity who has interest in furthering the vision of the MMITS concepts.

Further Details: <http://www.mmitsforum.org>

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