

# MEA Network

## 2.4GHz Mesh Enabled Architecture Solution



MOTOWI<sup>4</sup>

A MEA network can improve productivity by providing high speed data, video and location services to mobile users and field personnel.

Motorola's mesh networking technology enables users to wirelessly access critical broadband applications seamlessly – virtually any time and anywhere. Whether utilizing predeployed infrastructure, or an instant, ad hoc, broadband network formed with other users, Motorola's mesh networking technology delivers real-time data to detect, prevent, respond.

### Internet Architecture - Enhanced and Mobile

Motorola has enhanced the network architecture and capabilities found in the wired Internet, and made them mobile. The Mesh Enabled Architecture (MEA) solution is a flexible and scalable wireless network that can maximize performance and bandwidth efficiency for wireless applications. Self-forming, self-healing and self-balancing routing allows wireless devices to become the network, offering a towerless, seamless, and flexible high-bandwidth wireless solution.

### Architecture Components

MEA networks are composed of four hardware and software elements: the Wireless Modem Card for clients (WMC), Mesh Wireless Router (MWR), Intelligent Access Point (IAP), and the Mobile Internet Switching Controller (MiSC).

### WMC6300 / Wireless Modem Card

The Wireless Modem Card delivers 6 Mbps burst data rates for live audio and video, fast and accurate position location, and other data services to any device with a PCMCIA card slot.

### MWR6300 / Mesh Wireless Router

The Mesh Wireless Router is a small, low-cost wireless device that is primarily deployed to guarantee coverage in large geographic areas, campuses, or even in-building applications. MWRs are used to seed new network deployments, and enable non-line-of-sight communications between clients and IAPs.

### IAP6300 / Intelligent Access Point

The Intelligent Access Point is a small, low-cost device that acts as the transition point from the wireless MEA network to the wired Internet and Public Switched Telephone Network (PSTN). Each IAP supports burst data rates up to 6 Mbps. Additional IAPs can be deployed to increase capacity at any time.

### MiSC / Mobile Internet Switching Controller

The MiSC provides routing, switching and management functions for the MEA network. It provides the connectivity between IAPs and wired world. The MiSC is comprised of off-the-shelf hardware components. Software consists of both off-the-shelf products and Motorola's MeshManager software

