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## **Motorola's Newest Mission Critical Technology Solves Real Problems For Cities, Municipalities**

*Multi-Radio, Multi-Frequency Access Points Ensure Public Wi-Fi Users Do Not Compromise First Responder Access to Mission Critical Communications*

NEW ORLEANS, LA. –15 March 2005 –For years, municipalities across the United States have faced a seemingly insurmountable communications and budgetary problem: How to deploy a single wireless network that provides Wi-Fi access to the public, yet provides first responders with separate, dedicated and secure access to mission critical communications?

Motorola, Inc. today announces the MOTOMESH™ Multi-Radio Broadband Solution, whose architecture supports up to four radio networks in a single access point. Motorola, a world leader in delivering mission-critical communications, said MOTOMESH provides fixed and mobile broadband access to users in the unlicensed 2.4GHz band, as well as in the new licensed 4.9 GHz public safety band. MOTOMESH and Motorola's expanding portfolio of Seamless Mobility solutions are being showcased this week at the CTIA tradeshow in New Orleans, LA.

"The 4.9 GHz licensed band is seeing increasing application in municipal and public safety applications," said Craig J. Mathias, a principal with the Farpoint Group, a mobile and wireless advisory firm based in Ashland, MA. "Combining the 4.9 GHz band with the 2.4 GHz unlicensed band allows municipalities to address the needs of both government and commercial users with a single deployment."

The MOTOMESH solution, which will be available in the second half of 2005, is one of the first multi-radio mesh networks to combine 4.9 GHz licensed mobile broadband radios and unlicensed Wi-Fi radios into a single access point. This enables truly distinct wireless broadband networks to operate over a common physical infrastructure. Competing mesh solutions rely on "virtual networking," which means municipal workers, first responders and the public must compete for bandwidth and access on a single physical Wi-Fi network. MOTOMESH allows municipalities to serve diverse communities of interest without the risk of public Wi-Fi users overwhelming mission critical mobile broadband users.

Of primary importance to cities and municipalities across the United States, MOTOMESH offers seamless security, service and connectivity to first responders and other law enforcement personnel. Users of the network can receive instant access to key information like building schematics, electrical diagrams, hazardous chemical reports and other critical information that empowers them to safely and efficiently do their jobs. The network also helps to reduce the time it takes to respond to emergencies, providing valuable seconds that could mean the difference between life and death. In addition, users of the network can leverage its mesh networking properties and seamless connectivity by deploying high-

speed instant tactical broadband networks for rapid data communications even in areas where physical infrastructure may be damaged or destroyed.

“Motorola is setting the standard for cities looking to deploy a single network infrastructure that has the ability to serve a wide range of constituencies,” said Nelson Santos, Director of Technology, Scientel America, a leading integrator of metro area wireless networks. “Motorola’s multi-radio architecture offers higher capacity, security and performance than we have seen in other metro broadband systems.”

### **A Technical View Of MOTOMESH**

Every MOTOMESH access point contains two standards-based 802.11 (Wi-Fi) radios and two of Motorola’s widely acclaimed Mesh Enabled Architecture (MEA®) mobile broadband radios. One set of Wi-Fi and MEA radios operate in the unlicensed 2.4GHz band, and one set operates in the licensed 4.9GHz public safety band.

MEA radio users can leverage Motorola’s unique Multi-Hopping® capabilities that turn each user into a router/repeater. This allows users to hop through other users to reach MOTOMESH access points. As a result, every user makes the network stronger – extending network coverage and creating more data paths through the network. As with all MEA radio systems, fast and accurate tracking capabilities are available without the use of GPS satellites.

Centralized network management and configuration is provided by Motorola’s proven and widely deployed MeshManager® system. MOTOMESH is currently undergoing beta testing with general availability slated for the second half of 2005.

### **About Motorola**

Motorola is a Fortune 100 global communications leader that provides seamless mobility products and solutions across broadband, embedded systems and wireless networks. In your home, auto, workplace and all spaces in between, seamless mobility means you can reach the people, things and information you need, anywhere, anytime. Seamless mobility harnesses the power of technology convergence and enables smarter, faster, cost-effective and flexible communication. Motorola had sales of US \$31.3 billion in 2004. For more information: [www.motorola.com](http://www.motorola.com)