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Hughes and Lemko Corporation Demonstrate High-Speed Wireless 4G/LTE Video Calls over Satellite Backhaul

Integrated Solution Eliminates Latency Issues; Ideal for Military and Public Safety

GERMANTOWN, Md., June 28, 2012 /PRNewswire/ -- Hughes Network Systems, LLC (HUGHES), the global leader in broadband satellite solutions and services, today announced that it has successfully demonstrated wireless 4G/Long Term Evolution (LTE) transmissions over satellite backhaul at download speeds of over 10 Mbps and upload speeds of 786 Kbps, including video phone calls. The testing involved the combination of a Hughes satellite modem with JUPITER™ high throughput technology and Lemko Corporation's Distributed Mobility Wireless Network (DiMoWiNe).

(Logo: <http://photos.prnewswire.com/prnh/20110112/NE29456LOGO>)

"The growing need for the dissemination of real-time video to our warfighters requires the combination of wireless 4G/LTE and high-throughput satellite backhaul," said Rick Lober, vice president and general manager of Hughes Defense and Intelligence Systems Division. "The unique combination of these technologies eliminates the latency issues that can disrupt LTE traffic backhauled over conventional satellite links."

Deploying wireless 4G/LTE systems using a satellite backbone enables important applications for mobile broadband in tactical communications for both military and public safety markets. Warfighters will have the most advanced mobile communications available with rapid deployment capabilities, as will first responders in the critical minutes after a disaster.

"DiMoWiNe is a key innovation breakthrough needed to bring mobile 4G LTE networks to warfighters and public safety officers," said Chris White, executive vice president at Lemko. "LTE over satellite completes the 4G ecosystem. Because of the need to have interoperability across networks and devices, remote and rapid deployment applications can leverage the massive worldwide ecosystem for hardware and applications."

Hughes JUPITER high-throughput technology operates over EHOSTAR® XVII, the company's next-generation Ka-band satellite. This satellite system employs an advanced multi-spot beam and bent-pipe architecture, and will provide well over 100 Gbps capacity in North America.

Lemko has efficiently connected hundreds of GSM, CDMA, UMTS and EVDO commercial and tactical wireless networks via satellite. Lemko's DiMoWiNe solution virtualizes the core, and all the switching and routing is moved to the network's edge, significantly reducing latency and jitter.

About Lemko Corporation

LEMKO is the leading provider of DiMoWiNe (Distributed Mobile Wireless Network) solutions that change the way mobile operators maintain and develop voice, SMS and data businesses over 2G, 3G and 4G broadband networks. Lemko provides an entire cellular system powered by an all IP mobile infrastructure which includes radio access equipment as well as virtualized 2G, 3G and LTE core network functionality. The virtualized core functionality (including EPC, IMS, VoLTE, policy control, multimedia telephony (MMTel) and data off-load) sits at each RAN site with immediate connection to the cloud for delivery of voice, SMS, data and broadband functionality.

This approach lowers up-front capital expense and dramatically lowers on-going operational expenses. The company's market leading solutions are deployed with Tier 3 as well as Tier 1 carriers, and government and military private network operators. Lemko is headquartered in Schaumburg, Illinois, USA.

About Hughes Network Systems

Hughes Network Systems, LLC (Hughes) is the world's leading provider of satellite broadband for home and office, delivering innovative network technologies, managed services, and solutions for enterprises and governments globally. HughesNet® is the #1 high-speed satellite Internet service in the marketplace, with offerings to suit every budget. To date, Hughes has shipped more than 2.8 million systems to customers in over 100 countries, representing over 50 percent market share. Its products employ global standards approved by the TIA, ETSI and ITU organizations, including IPoS/DVB-S2, RSM-A, and GMR-1.

Headquartered outside Washington, D.C., in Germantown, Maryland, USA, Hughes operates sales and support offices worldwide, and is a wholly owned subsidiary of EchoStar Corporation (NASDAQ: SATS), a premier global provider of satellite operations and digital TV solutions. For additional information about Hughes, please visit www.hughes.com.

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