



October 24, 2012

Hughes to Address MILCOM 2012

Presentations Examine Ka-band's Role in National Security Programs and Introduce New Waveform for Micro Terminals

GERMANTOWN, Md., Oct. 24, 2012 /PRNewswire/ -- Hughes Network Systems, LLC (HUGHES), the global leader in broadband satellite solutions and services, and a leading provider of managed network and application services, today announced that two executives will present papers at the Military Communications (MILCOM) 2012 Conference. The papers are featured in the technical program track and were chosen from a panel of distinguished thought leaders in government, academia, the military and the private sector.

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

WHAT: MILCOM 2012

WHEN: October 29 — November 1, 2012

WHERE: Gaylord Palms Hotel and Convention Center, Kissimmee, Florida

Channel Coding: Scrambled Code Multiple Access (SCMA) Waveform for Micro Satellite Terminals

Tuesday, October 30: 2:30 p.m. — 4:30 p.m.: Lin-Nan Lee, PhD, vice president, Advanced Development, Engineering Division, will present a novel waveform based on very low-rate coding and a variety of new SCMA techniques, enabling multiple users to share bandwidth efficiently by using specific scramblers in separate timeslots. This new waveform is well suited for small antenna micro satellite terminals, which are often utilized in tactical communications-on-the-move (COTM), asset tracking, sensor networking and smart grid technologies.

Satellite Communications: High Capacity Ka Commercial Communications Satellite Architectures for Defense Applications

Wednesday, October 31: 9:30 a.m. — 11:30 a.m.: Rajeev Gopal, PhD, senior director of Advanced Programs in the Defense and Intelligence Systems Division (DISD), will present analysis of multiple, high-capacity Ka-band satellite designs — including the recently launched EchoStar[®] XVII satellite with JUPITER[™] high throughput technology. He will discuss utilization of Ka-band satellite architectures in resilient communications to enhance national security.

Additionally, Hughes will showcase key technologies for the defense and intelligence communities in Booth 1319, including its 9202 portable Broadband Global Area Network (BGAN) terminal, and wideband Ka-/Ku-band on-the-move broadband satellite solutions employing its FIPS-certified HX280 router. The booth will also feature recent Hughes advancements in airborne communications.

To learn more about MILCOM 2012, visit www.milcom.org.

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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