



June 25, 2012

Hughes HX System Employs New IPoS-B Open Satellite Standard

Enhancements Include Mesh Networking, Mobility Support, Increased Capacity and Bandwidth Efficiency

GERMANTOWN, Md., June 25, 2012 /PRNewswire/ -- Hughes Network Systems, LLC (HUGHES), the global leader in broadband satellite networks and services today announced that its HX System employs the new IP-over-Satellite 1008-B air interface standard (IPoS-B), which was recently approved by the Telecommunications Industry Association (TIA). Hughes has led the effort in developing the IPoS standard, originally approved by TIA in November 2003 and subsequently by ETSI and ITU, which is the most widely deployed in the satellite networking industry.

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

"Hughes is committed to standards-based technology to provide the most advanced, proven solutions to our customers," said Pradman Kaul, president of Hughes. "We are proud to work with our peer members at TIA to continually push the satellite industry's technology envelope and bring ever higher performance fixed and mobile services to market, to the benefit of all users—consumers, enterprises, and governments alike."

IPoS-B follows the IPoS.v2 update issued in 2006 which incorporated the DVB-S2 standard, and includes the following new features:

- Mesh communication with peer-to-peer, direct single-hop and mesh-specific timing synchronization
- Direct sequence spreading to small antennas in a mobile environment
- Video Broadcasting — Second Generation (DVB-S2)-compliant modulation and coding
- Adaptive Coding and Modulation (ACM) and Constant Coding Modulation (CCM) on the outroute
- Adaptive Inroute Selection (AIS) of coding rate
- Mobility support
- Inroute control signaling security
- Closed Loop Timing (CLT)

TIA is accredited by the American National Standards Institute (ANSI) as a standards developing organization. Hughes also adheres to standards set by the European Telecommunications Standards Institute (ETSI) and ITU.

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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