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## **Hughes Successfully Completes Integration Testing of Satellite Backhaul Solution with Nokia Siemens Networks**

### **HX Platform Proves Ideal Solution for GSM Backhaul**

GERMANTOWN, Md., June 12, 2012 /PRNewswire/ -- Hughes Network Systems, LLC (Hughes), the global leader in broadband satellite networks and services, today announced that it has successfully completed end-to-end verification of its HX System with Nokia Siemens Networks' GSM Base Station. GSM operators can now have full confidence that the Hughes HX260 platform in combination with Nokia Siemens Networks' GSM Radio Access operating over the bandwidth optimized 'Packet Abis' interface, provides a proven and reliable satellite mobile backhaul solution.

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

According to Joerg Ambrozy, single radio access transport product manager at Nokia Siemens Networks, "The Nokia Siemens Networks Packet Abis and Hughes HX260 together provide a strong Mobile Broadband Solution for Satellite Backhaul which improves voice quality and data throughput for our customers. We are looking forward to continuing our joint efforts with Hughes to also deliver optimized 3G and 4G backhaul solutions via next-generation high throughput satellites."

Supporting cellular backhaul in either star or mesh configurations, the HX System's fast packet processing design reduces round trip latency to approximately 600 milliseconds and one-way jitter to 20 milliseconds, resulting in superior voice quality and very efficient data throughput—essential for real-time applications. A just-in-time burst feature on the return channel ensures that data packets are transmitted at the earliest possible opportunity.

"This successful integration testing provides both companies with a ready-to-deploy, packaged GSM/satellite solution," said Vince Onuigbo, senior marketing director at Hughes responsible for the cellular backhaul market. "It is ideal to extend cellular coverage in hard-to-serve and rural areas, where terrestrial backhaul is prohibitively expensive, representing a significant market opportunity globally."

#### **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](http://www.hughes.com).

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