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Hughes and Sevis Validate JUPITER™ Satellite Backhaul Solution for High-Performance 3G and LTE Mobile Services

Hughes JUPITER System with Sevis Optimization Delivers Top Download Speeds and Bandwidth Savings

GERMANTOWN, Md., Jan. 19, 2016 /PRNewswire/ --[Hughes Network Systems](#), LLC (Hughes), the global leader in broadband satellite solutions and services, today announced the successful completion of an extensive validation process with [Sevis Systems, Inc.](#), the leading developer of cellular backhaul optimization technology, confirming high-performance delivery of 3G and LTE mobile services over a Hughes JUPITER™ System satellite backhaul solution.



The new offering opens the way for mobile network operators (MNOs) to fulfill universal service obligation (USO) programs by expanding modern 3G/LTE services in lower density and rural areas otherwise left unserved due to the high cost of terrestrial backhaul, whether fiber, cable or microwave. Joint testing of the combined Hughes JUPITER platform with Sevis Intelligent Backhaul Optimizer (IBO) suite of applications, including optimization and TCP (Transmission Control Protocol) acceleration technology, resulted in substantial bandwidth savings and boosted speeds over satellite links provisioned for both 3G and LTE backhaul.

Tim Peyla, vice president, Business Development at Sevis Systems, said, "We continue delivering next-generation mobile backhaul optimization and acceleration technology with unmatched value and ROI. Our software-defined 7000 series intelligent backhaul optimizer technology was purposely built for high throughput satellites, so we are excited to have validated our solution with Hughes, the undisputed global leader in residential satellite broadband. We look forward to working with Hughes and JUPITER System network operators for the expansion of mobile broadband networks worldwide."

The tests covered registration/deregistration, mobile originated (MO) and mobile terminated (MT) voice calls, SMS (Short Message Service), web browsing and data sessions. The backhaul optimization tests evaluated bandwidth savings while performing FTP and HTTP transfers of audio and video files, Microsoft Office documents and Web pages over 3G and 4G services. TCP acceleration testing evaluated the same traffic used for the backhaul optimization but with TCP acceleration and compression applied.

Performance met or exceeded expectations in all cases, with the JUPITER backhaul network delivering high-QoS services and the Sevis solution accelerating download speeds and compressing traffic for more efficient bandwidth usage.

"Connecting people to the digital world no matter where they live or work is what Hughes is all about," said Ramesh Ramaswamy, vice president, International for Hughes. "This novel combination of our award-winning JUPITER System with Sevis intelligent backhaul optimizer technology paves the way for operators to expand addressable markets for much-needed wireless 3G/LTE networks across the globe."

The pre-certified Hughes and Sevis solution is available immediately across the global JUPITER System customer base.

About Sevis Systems

Sevis Systems' best-in-class products offer innovative solutions for mobile network operators worldwide. Sevis Systems bridges the gap between transport solutions, mobile domain expertise and deep packet inspection capabilities; offering best-in-industry support with unprecedented warranties and post product deployment services. Several of the world's largest mobile operators rely on Sevis products to enable new services and increase operational efficiencies within their networks. Sevis' products are sold worldwide via a network of OEM and distribution partners. Founded in 1999, Sevis is a privately held corporation based in Lewisville, Texas USA. Remote offices are located in Argentina and Singapore.

About Hughes Network Systems

Hughes Network Systems, LLC (Hughes) is the global leader in satellite broadband for home and office, delivering innovative solutions and a comprehensive suite of HughesON™ managed services for enterprises and governments worldwide. 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 5 million systems to customers in over 100 countries, representing approximately 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.

About EchoStar

EchoStar Corporation (NASDAQ: SATS) is a premier global provider of satellite and video delivery solutions. Headquartered in Englewood, Colo., and conducting business around the globe, EchoStar is a pioneer in secure communications technologies through its EchoStar Satellite Services, EchoStar Technologies Corporation and Hughes Network Systems business segments. For more information, visit echostar.com. Follow [@EchoStar](https://twitter.com/EchoStar) on Twitter.

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