Boeing Demonstrates Integrated Voice, Data and Video Services with TSAT Tests

The Boeing Company [NYSE: BA] has further demonstrated that its Transformational Satellite Communications System (TSAT) can provide warfighters with rapid access to integrated voice, data and video services.

Recent tests of the TSAT Next-Generation Processor Router (NGPR) measured data transmission and lag time from a user perspective, showed a high level of service quality and demonstrated the dynamic bandwidth resource allocation that TSAT will bring to military satellite communications users. The tests also reaffirmed the transformational capabilities of the Boeing team's TSAT design and provided objective waveform compatibility and network demonstrations of crucial requirements.

"We know what it takes to provide our warfighters with the high-speed Internet protocol-based capabilities they need to meet their future communication requirements," said Howard Chambers, vice president and general manager of Boeing Space and Intelligence Systems. "These tests helped to demonstrate that TSAT will give them what they need."

Dubbed NGPR-2, the tests were the second in a series for the advanced processor router. During the first round of tests last year, Boeing confirmed compatibility with the gold-standard TSAT terminal using the XDR+ waveform. The recent demonstrations utilized the government's reference TSAT Radio Frequency Universal System Test Terminal (TRUST-T) and Network Standards Test and Verification Environment (NSTVE), both provided and operated by the Massachusetts Institute of Technology Lincoln Laboratory.

Boeing's TSAT team has successfully completed on time all 37 government- defined demonstrations.

"This is the kind of flawless execution that underscores the readiness of Boeing's TSAT technology," Chambers said.

During NGPR-2, Boeing's TSAT team also displayed several key enabling technologies in multi-terminal environments as a head-start to planned future demonstrations. The NGPR-2 tests followed other recent program accomplishments, including a demonstration of the laser communications systems and on-orbit tests of related digital processing technology on a commercial communications satellite.

The Boeing team is working under a $514 million U.S. Air Force contract for the risk reduction and system definition phase of the TSAT Space Segment program. The Air Force plans to select a primary TSAT Space Segment contractor in the fourth quarter of calendar year 2007.

The Boeing TSAT team includes Raytheon, Ball Aerospace, General Dynamics, IBM, L-3 Communications, Cisco Systems, BBN Technologies, Hughes, LGS Innovations, Harris, EMS Technologies, ICE and Alpha Informatics.

The results contained in this submission were generated in whole, or in part, through work supporting the Military Satellite Communications Systems Wing.

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