

Boeing Defense, Space & Security  
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## Space & Intelligence Systems

### OVERVIEW

Boeing Space and Intelligence Systems (S&IS), with major locations in El Segundo and Seal Beach, Calif., is the company's center for all intelligence systems and government/commercial satellite systems. S&IS offers end-to-end intelligence services and has competency in large-scale systems integration; intelligence, surveillance and reconnaissance systems; and navigation and communication systems. The world's first geosynchronous communications satellite, Syncom, was built by Boeing and launched in 1963. Today, one-fourth of the 290 commercial satellites in orbit worldwide were built by Boeing at its Satellite Development Center in El Segundo, Calif., the site of the world's largest satellite manufacturing factory.

### KEY PROGRAM AREAS

Commercial Satellite Systems oversees the design, integration and testing of communications satellites and payloads for commercial telecommunications, scientific and environmental applications. Since 1961, Boeing has developed and produced state-of-the-art space and communications systems for military, commercial and scientific uses. These systems supply communications and meteorological observation technology for domestic and international customers and meet many of the military and civil space system requirements of the U.S. government.

Current projects include the MEXSAT satellite communications system; three Inmarsat-5 satellites; four satellites for Intelsat; and mobile communications satellites for LightSquared, formerly known as SkyTerra LP. Boeing spacecraft routinely relay digital communications, telephone calls, video conferences, television news reports, facsimiles, television programming, mobile communications, Internet connectivity and direct-to-home entertainment.

Boeing Commercial Satellite Services (BCSS) was formed in 2011. BCSS develops innovative solutions for satellite customers by marketing commercial satellite telecommunications services to the U.S. government and other satellite users. The initial target market for BCSS is the U.S. government; future plans include teaming with

commercial satellite operators to provide other types of customized communications capacity, including services to foreign governments.

Navigation & Communication Systems manages the company's major government satellite programs for civil and military communications and national defense. These include the Wideband Global SATCOM system, which are the U.S. Department of Defense's highest-capacity military communications satellites, the Global Positioning System IIF program, which will provide next-generation navigation services, and NASA's Tracking and Data Relay Satellites, TDRS K and L. Boeing, in partnership with Ball Aerospace, also provided the Space Based Space Surveillance (SBSS) system, the only space-based sensor in the U.S. Air Force Space Surveillance Network with the ability to detect distant space objects without interference from weather, atmosphere, or time of day.

Experimental Systems is the prime contractor for the X-37B Orbital Test Vehicle, an unmanned space vehicle that will be used by the United States Air Force to explore reusable space vehicle technologies in support of long-term space objectives. Objectives of the X-37B program include space experimentation, risk reduction, and concept of operations development. Boeing's involvement in the program dates back to 1999.

S&IS also manages the company's Spectrolab subsidiary, the world's leading manufacturer of space solar cells and panels. Spectrolab's product portfolio includes terrestrial concentrator solar cells and modules, searchlight systems (Nightsun® series), solar simulators and Photodetector products. Spectrolab established its credibility in the space industry in 1958 with Pioneer 1, which carried the company's first body-mounted solar panels into space. That tradition continues today with NASA's two Mars Exploration Rovers, which use Spectrolab's improved triple-junction solar cells for power as they conduct missions on the Red Planet.

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August 2011