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## SEAKR AWARDED IRIS DEVELOPMENT CONTRACT BY CISCO

Centennial, CO. – December 4, 2007 – SEAKR Engineering, Inc. (SEAKR) has been awarded a contract by Cisco to build the Internet Routing in Space (IRIS) payload consisting of an IP layer 3 router and an IP Programmable MODEM. This payload is part of the IRIS initiative announced last April by Intelsat General, which was selected by the Department of Defense to lead an industry-government collaboration to demonstrate the viability of conducting military communications through an Internet router in space. The IRIS project is one of seven projects – out of hundreds of applicants – announced in fiscal 2007 as a Joint Capability Technology Demonstration (JCTD) by the Department of Defense. Intelsat General, the first commercial satellite company to be awarded a JCTD Program, will host the IRIS payload on its IS-14 satellite.

“IRIS provides a platform for the next generation of satellite communications merging terrestrial based systems seamlessly with space based assets. The IRIS initiative aims to demonstrate the industry impact of changing commercial communication satellites from transponder “bent pipe” operation to digitally processed and IP packet routed transceiver operation. If this new approach becomes standard on commercial spacecraft we expect it to enable growth and establish Colorado as a key participant in our Nation’s crucial space technology,” notes Scott Anderson, VP and cofounder of SEAKR Engineering, Inc. By providing On-Board Processing for IP routing, satellites will be able to cross between different RF frequencies switching data to the most efficient path to the end user.

The IRIS payload will interconnect one C-band and two Ku-band coverage areas. The IRIS architecture and design allow for flexible IP packet (layer 3) routing or multicast distribution that can be reconfigured on demand. With the on-board processor routing the up and down communications links, the IRIS payload is expected to enhance satellite performance and reduce signal degradation from atmospheric conditions.

The IP router and MODEM hardware are based on SEAKR’s expertise of combining radiation hardened with non-radiation hardened electronics to create a radiation tolerant system by design. By combining both technologies successfully, SEAKR is able to create hardware that can withstand the space environment without having to trade off performance. This greatly reduces the price and schedule required to field equipment for space missions. “SEAKR has been building mixed systems for years. Our hardware is on many missions from LEO orbits around the earth to as far away as Mars and this technique has been proven successful 100% of the time,” states Dave Jungkind, SEAKR Business Development.

“The IRIS architecture allows direct IP routing over satellites, eliminating the need for routing via ground-based teleports, thereby dramatically increasing the efficiency and flexibility of the satellite communications links,” said Don Brown, Vice President of Hosted Payload Programs for Intelsat General. “IRIS is to the future of satellite-based communications what ARPANET was to the creation of the Internet in the 1960s.”

## ABOUT SEAKR ENGINEERING, INC.

SEAKR Engineering is a world-leading provider of advanced state-of-the-art electronic avionics for space and airborne applications. Since its inception in 1982, SEAKR has delivered over one hundred flight units. More than sixty of these units have launched with all having met mission objectives. SEAKR leading edge space avionics includes Cisco IP routers as well as software-defined radios, high-performance payload processors, modular command and data handling systems, and solid state recorders. SEAKR is a small business proud to serve its customers and country. Contact: Dave Jungkind, 1+ (303) 784-7734, [dave.jungkind@seakr.com](mailto:dave.jungkind@seakr.com), <http://www.SEAKR.com>.

## ABOUT INTELSAT GENERAL CORPORATION

Headquartered in Bethesda, Md., Intelsat General Corporation provides leading-edge communications solutions to commercial, government, and military customers through fixed and mobile satellite systems and associated terrestrial communications services. Intelsat General incorporates flexible and robust ground and space infrastructure and technical expertise to deliver reliable, quickly deployable and secure network solutions anywhere around the globe. Intelsat General is an indirect, wholly owned subsidiary of Intelsat, Ltd. [www.intelsatgeneral.com](http://www.intelsatgeneral.com). Contact: Lynette Henley at 1+(301) 571-1239 or [lynette.henley@intelsatgeneral.com](mailto:lynette.henley@intelsatgeneral.com).