



The Director's Report

From: David Cavossa

May 27, 2005

The Satellite Industry Association (SIA) Director's Report is a weekly executive capsule covering current satellite industry news and events.

Your comments are appreciated. Please contact Josh Guyan at (202) 349-3632.

Member News

The Satellite Industry Association announced its support for the report released on Monday, May 23rd by the National Telecommunication and Information Administration (NTIA) which recommended key improvements on how the U.S. could build on its past successes in advancing America's interests at future World Radiocommunication Conferences (WRCs). SIA welcomed the NTIA's report and recommendations stating "given the international nature of the issues affecting the commercial satellite industry such coordination between industry and government will be extremely helpful in future WRC preparatory discussions."

Mobile Satellite Ventures (MSV) announced the grant of another comprehensive patent for fundamental aspects of its ancillary terrestrial component (ATC) technology. This patent, the 6th in a series of wide-ranging patents, covers systems and methods for coordinating space-based and terrestrial use of satellite frequencies for a satellite/terrestrial hybrid network. The patent covers both band segmentation and/or frequency reuse between the two components of the hybrid network. This recent ATC patent issued to MSV, Coordinated Satellite-Terrestrial Frequency Reuse (US Patent 6,892,068), has 149 claims which brings the total number of claims for MSV patents to over 800.

DIRECTV 8, a high-power direct broadcast satellite (DBS) built for The DIRECTV Group, Inc., El Segundo, Calif. by Space Systems/Loral (SS/L), was successfully launched on Sunday at 10:59 am PDT. The satellite was sent into space from the Baikonur Cosmodrome in Kazakhstan aboard a Proton M/Breeze M launch vehicle provided by International Launch Services (ILS). The powerful Ku/Ka-band hybrid spacecraft will reinforce the existing fleet of eight DIRECTV satellites and will take the place of an older DIRECTV satellite at the 101-degree West longitude orbital slot. DIRECTV 8 will also provide a link for DIRECTV broadcast facilities in support of the roll out of local digital and high-definition channels in major markets this fall.

The U.S. Air Force announced that Lockheed Martin has been selected to continue development of the Innovative Space Based Radar Antenna Technology, known as ISAT. The contract, valued at \$19.5 million, is for the next phase of the Defense Advanced Research Project Agency's (DARPA) ISAT project, administrated by the Air Force Research Laboratory (AFRL). Lockheed Martin will continue development of the ISAT Flight Demonstration Experiment design over the next 14 months, which will take it to the Critical Design Review (CDR) maturity level. Following the CDR, DARPA and the Air Force plan to select a contractor to build and deploy a scale



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version of the antenna for a one-year proof of technology experiment in low earth orbit.

The NOAA-N spacecraft, a Polar Operational Environmental Satellite (POES), was launched successfully from Vandenberg Air Force Base, Calif. **Lockheed Martin** Space Systems Company in Sunnyvale designed, built and tested the NOAA-N spacecraft. NOAA-N is the latest in the Advanced TIROS-N (ATN) satellite series. All have been designed and built for the National Aeronautics and Space Administration (NASA) by Lockheed Martin since the first Television and Infrared Observational Satellite (TIROS) weather satellite launch in April 1960. NASA manages the spacecraft's launch and the National Oceanic and Atmospheric Administration (NOAA) operates the satellite once in space. Over many years of service, the TIROS satellites have earned the reputation as the workhorses of the Civil Space Earth-imaging inventory.

Maritime customers will benefit from enhanced coverage across the Indian Ocean Region from May 28 when the new **Inmarsat-4** (I-4) satellite is currently scheduled to enter commercial service. Existing users of maritime spot-beam services will benefit immediately from enhanced coverage right across the Indian Ocean Region (IOR) once transition is complete the switch-on and handover of traffic to the I-4 is expected to be seamless.

Globalstar completed its first full year following its financial restructuring based on the formal acquisition of its main business operations and assets by Thermo

Capital Partners L.L.C. The company can now boast new products and services, expanded coverage, and reduced user costs resulting in significant customer wins, and a 45% growth year over year in its subscriber base of voice users from that of a year ago. Globalstar simplex data service users have grown at a rate of 900% in the same time period.

Arel Communications and Software announced that **Hughes Network Systems, LLC** (HNS) has certified Arel's Spotlight conferencing solution to operate over its DirecWay broadband satellite service. Arel said the certification means that enterprise customers can use Arel's Spotlight conferencing solution as a value-added application for live and on-demand interactive distance learning over the DirecWay service.

Mobile Satellite Ventures (MSV) announced that it received Federal Communications Commission (FCC) authorization to launch and operate a next generation L Band satellite at the 101° W.L. orbit location. This authorization follows the April 5, 2005 Industry Canada authorization to MSV's Canadian affiliate for an L band satellite at 107.3° W.L. Use of the two authorizations together enables MSV to replace its existing satellites and utilize the full complement of spectrum available to it today.

One year ago when Lufthansa Flight 452 lifted off from the Munich, Germany, airport en route to Los Angeles, it marked the start of commercial service for a **Boeing** project to bring high-speed broadband Internet service to airline passengers. To coincide with the anniversary, Boeing will announce it is



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rolling out live global TV this summer as part of **Connexion**. Singapore Airlines is the first customer. And Connexion is expanding to commercial shipping -- merchant marine vessels, not cruise ships. Boeing recently completed successful sea trials of Connexion and will announce a customer soon. *Courtesy of seattlepi.com.*

Inmarsat is collaborating with ViaSat Inc. to develop new solutions based on the integration of Inmarsat's forthcoming

Other News

Satellite industry experts have urged regulators in all countries worldwide to further simplify and liberalize their regulatory environments to reduce investment required to deploy broadband services and substantially improve the global availability of advanced communications services. Signatories of the **Global Broadband Satellite Infrastructure (GBSI) Initiative** MoU made this call as they announced the completion of the first phase of their work to study the most efficient and rapid means of deploying broadband satellite services worldwide. At the conclusion of their third meeting on April 20 at the headquarters of Intelsat, Ltd. in Washington D.C., the group recommended measures that policymakers could adopt in order to facilitate the delivery of high-speed broadband applications by satellite to all peoples of the world, particularly those coming from developing nations.

Upcoming SIA Meetings and Events

May 31 - June 2, 2005: ISCe 2005 in Long Beach, CA. SIA is co-hosting the **International Satellite & Communications (ISCe) Conference and Expo**. For more information, please visit www.isce.com

BGAN mobile satellite service and ViaSat's AltaSec family of programmable, HAIPIS-compliant inline network encryption products. The two companies said they will explore ways to better serve US Government requirements, with specific emphasis on the Department of Defense. They will examine the use of HAIPIS encryption devices, such as the NSA-certified KG-250, to secure the Inmarsat BGAN network.

WildBlue Communications, Inc. announced on the company's commercial service rollout beginning first week of June. WildBlue said it will begin introducing its satellite Internet service, providing high-speed Internet connections to homes and small businesses in communities in the continental U.S. not currently served, or underserved, by other high speed providers. WildBlue said its service will be available initially through participating members of the **National Rural Telecommunications Cooperative (NRTC)**.

Canada's satellite operator **Telesat** has launched its new two-way satellite broadband service. The new service, operating in the Ka-band on the company's Anik F2 satellite, delivers always-on, always-ready high-speed Internet connectivity - anywhere in Canada. *Courtesy of SatNews.*

June 2, 6-8pm—SIA Reception for COM/CITEL Delegates @ National Press Club (invitation only)

June 15, 2:00pm – SIA Trade Working Group Meeting @ SIA



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June 15th 6-9pm – SSPI social evening – Perry's Adams Morgan 1811 Columbia Rd., NW Washington, DC.

June 21, 2:00pm—SIA Regulatory Working Group Meeting @ SIA

June 29th, 2:00pm – SIA Government Services Working Group Meeting @SIA

June 29th, 2005 – 5:30 pm-8:00 pm - SSPI co-sponsor with AIAA of WIA event: “Post-Tsunami Lessons Learned – Earth Observation and Disaster Relief” Part II Rayburn 2325.