

APSCC Monthly e-Newsletter

SEPTEMBER 2015

The **Asia-Pacific Satellite Communications Council (APSCC) e-Newsletter** is produced on a monthly basis as part of APSCC's information services for members and professionals in the satellite industry. Subscribe to the APSCC monthly newsletter and be updated with the latest satellite industry news as well as APSCC activities! To renew your subscription, please visit www.apsc.or.kr/sub4_5.asp. To unsubscribe, send an email to info@apsc.or.kr with a title "Unsubscribe."

News in this issue has been collected from August 1 to August 31.

INSIDE APSCC

APSCC 2015 Satellite Conference and Exhibition, 22-24 September 2015, Coex, Seoul, Korea

The 18th Asia-Pacific Satellite Communication, Broadcasting and Space Conference & Exhibition (APSCC 2015 Satellite Conference & Exhibition) will be held on 22-24 September 2015 at Coex Convention Center, Seoul, Korea. The APSCC annual satellite event is a global gathering for the executives in the satellite and the space-related industries and also is the "Must Attend" event not only in Asia but also worldwide. APSCC 2015 will examine what the future holds for the satellite industry in the Asia-Pacific. The APSCC 2015 conference will explore the new and ongoing challenges/opportunities for the satellite industry, as well as focus on the key satellite service areas.

The Standard Registration Ends on **4 September**. Please visit the APSCC 2015 official website (www.apsc.or.kr/sub3.asp) for more information.

SATELLITE BUSINESS

Yahsat and Sevis Systems Collaborate for Optimized 3G & LTE Mobile Backhaul via YahClick

August 4, 2015 - UAE based Yahsat announced successful collaboration with Texas-based mobile backhaul technology developer Sevis Systems, to deliver an optimized backhaul solution that facilitates the expansion of mobile networks across the Yahsat Ka-band footprint. Yahsat's pursuit of an optimized satellite backhaul solution stems from a demanding mobile broadband market and sophistication in today's mobile devices, which push usage patterns towards an increasingly data-dominated mobile environment. This puts a considerable strain on cellular backhaul infrastructure, particularly in locations unserved or underserved by terrestrial networks. For the expansion of mobile broadband access in such locations, network operators are often left with a difficult choice between paying prohibitively high prices for satellite backhaul bandwidth and investing in their own terrestrial access infrastructure.

SpeedCast Selected by Vroon for High-Performance Maritime Broadband Connectivity

August 5, 2015 - SpeedCast International has been awarded a multi-year communications contract by international shipping company, Vroon. The new Ku-band satellite service will facilitate high-performance broadband connectivity with multi-megabit speeds, providing "hotel experience" Internet facilities for Vroon clients aboard specific categories of vessels. These include subsea-support vessels (10-25 passengers), walk-to-work vessels (with up to 60 passengers) and wind turbine installation/maintenance vessels (up to 110 passengers). Vroon conducted a competitive tender process to find a new VSAT supplier for client Internet access on board the "hotel experience" vessels. SpeedCast was selected for its ability to meet a stringent set of requirements, which will enable Vroon to deliver future-proof, high-capacity and scalable VSAT Internet services to accommodate clients' demanding Internet requirements.

First Iridium Certus Broadband Core Transceiver Prototypes Delivered

August 5, 2015 - Iridium Communications announced the latest milestone in the development of their next-generation Iridium Certus broadband service with the delivery of the first Broadband Core Transceiver (BCX) prototypes for interoperability testing on the Iridium NEXT satellite network infrastructure. Designed by product development firm Cambridge Consultants, the prototypes will be used by Iridium's industry-leading manufacturing

partners to design, build and distribute products compatible with the new broadband capabilities enabled by the Iridium NEXT network, scheduled to begin launching in late 2015 with commercial service expected in late 2016. Iridium Certus will be an enterprise-grade mobile satellite broadband service, with the reliability and versatility to operate as a standalone solution or complementary to VSAT platforms. While the BCX will initially support data speeds over the Iridium NEXT network that are comparable to current industry mobile broadband products, the scalable architecture of the transceiver will enable a broad range of products with data speeds as high as 1.4 megabits per second for a single user terminal after the Iridium NEXT satellites are fully online.

Kratos Reduces Complexity of Ground Systems for Small Satellites with quantumGND

August 6, 2015 - Kratos Defense & Security Solutions introduced quantumGND, the first complete C2 to RF ground systems package specifically designed to meet the unique requirements of the small sat community. Pre-integrated, affordable and easy-to-use, quantumGND is a full-function, out-of-the box ground system solution for small satellites. Including everything from the C2 system through the ground network and ground modem, quantumGND lets operators focus on their mission and payload instead of building their own C2 and RF signal processing capabilities. quantumGND is comprised of three pre-integrated components. quantumCMD provides C2 for a single small satellite up to a small sat fleet. qFEP and qRADIO (manufactured by Kratos subsidiary RT Logic) provide the baseband processing functions required between the C2 system and the antenna. Together, these components deliver a virtual machine architecture that features plug-and-play design for simplified setup, automation tools for lights-out operation and complete situational awareness in one dashboard.

Panasonic Completes ITC Global Acquisition

August 7, 2015 - Panasonic Corporation has completed its acquisition of ITC Global, a leading provider of satellite communication services for the energy, mining, and maritime markets. Founded in 2001 with regional headquarters in Houston, Texas; Sion, Switzerland; and Perth, Australia, ITC Global serves customers at more than 1,200 remote sites across 70 countries and all the world's oceans. Panasonic, through its subsidiary Panasonic Avionics Corporation, is a leading provider of inflight communications and entertainment systems to the aviation market. As a result of this transaction, ITC Global becomes "ITC Global, A Panasonic Company" and will operate as an independent unit of Panasonic Avionics. The ITC Global management team will remain in place and will continue to focus on its customers in the energy, mining, and maritime markets, while Panasonic Avionics will remain dedicated to its customers in the aviation market.

Comtech Awarded Orders to Support Satellite Mobile Backhaul Network Upgrade in Latin America

August 10, 2015 - Comtech EF Data Corp. was awarded a \$1.4 million order for infrastructure equipment. A large mobile network operator in Latin America will utilize the equipment to upgrade its satellite mobile backhaul network, enabling it to increase its array of service offerings, support subscriber growth and prepare for future business growth. The operator will leverage a combination of Comtech EF Data products, including Advanced Satellite Modems with along with the Integrated Management System. In addition, Comtech EF Data will provide its Engineering Support Services (ESS) Prime package, a premium service designed to support mission-critical networks. The service includes 24x7 engineering support, training, program management, remote network performance review and other technical services.

Kratos' RT Logic and Spaceflight Partner to Enhance Small Satellite Ground Support

August 10, 2015 - Kratos Defense & Security Solutions has announced a partnership between its RT Logic subsidiary and Spaceflight Networks, Spaceflight Industries' line of business providing cost-effective satellite communications and data services. The partnership will bring small satellite owners and operators the combined benefits of RT Logic's small sat ground radio products and Spaceflight Networks' global network of ground stations. The company's ground radios for small satellite users have been built from the ground up to meet the unique needs and business models of the burgeoning small satellite revolution. The radios meet both low rate command & control and high rate mission data downlink requirements, leveraging signal processing algorithms developed and proven over many years of successful test and on-orbit satellite operations. Utilizing Virtual Machine (VM) technology and industry-standard platforms, the new ground radios reduce complexity, cost, risk and schedule for small satellite builders and operators.

Thaicom Celebrates a Decade of IPSTAR – the World's First High Throughput Satellite

August 11, 2015 - Thaicom is marking the tenth anniversary of IPSTAR – the world's first High Throughput Satellite (HTS) and one of the catalysts of the huge shift the satellite industry has undergone over the past decade. When it was launched in 2005, IPSTAR was the heaviest commercial GEO satellite ever orbited with a launch mass of nearly 6,500 kg. It was also the first satellite to achieve a maximum 45 Gbps of capacity and was

one of the first commercial satellites to use electric propulsion. Since 2005 IPSTAR has been Asia-Pacific's leading broadband satellite platform and service, underlining Thaicom's innovative and pioneering role in the satellite industry. Designed for high-speed, two-way broadband communication over an IP platform, IPSTAR provides coverage over most of Asia-Pacific via multiple narrowly focused spot beams. As is typical of HTS, IPSTAR is capable of maximizing the available frequency for transmission and increases bandwidth by a factor of twenty when compared to traditional Ku-band satellites, resulting in more efficient operations.

Gilat Partners with Chinese Satcoms Companies for Ka HTS Multi-Spot-Beam Satellite

August 12, 2015 - Gilat Satellite Networks is entering into a unique partnership with Space Star Technology Co Ltd (SSTC), in which SSTC and Gilat will jointly provide the satellite communications network for ChinaSat 16, the first Ka HTS multi-spot-beam satellite in China. SSTC, a subsidiary of China Aerospace Science and Technology Corporation, is a leading designer, manufacturer and supplier of satellite communications antenna equipment and microwave components in China. The partnership agreement stipulates that multiple network segments and VSAT terminals will be delivered using Gilat's SkyEdge II-c technology. The SkyEdge II-c network will enable high speed fixed and mobile services to be delivered over satellite, including airborne, maritime, train and land mobility throughout China. Additionally, Gilat will share its expertise and experience with SSTC to develop satellite-enabled applications to improve the quality of life for citizens in the country's remote locations.

SpeedCast Selected by Gulf Marine Services for Satellite Communications

August 13, 2015 - SpeedCast International Limited has been awarded a multi-year communications contract from Gulf Marine Services (GMS). The new dual-beam Ku-band satellite service will provide high-performance broadband connectivity for client office applications and voice services across nine GMS barges. GMS is one of the largest providers of self-propelled, self-elevating accommodation jack-up barges in the world. The vessels work in offshore oilfields, often in harsh weather conditions, and therefore require a reliable and high-quality connection between the vessels and the land-based operations. SpeedCast's solution will initially deliver MBR 2048/512 CIR 512/256 links for each vessel, with scope to upgrade as necessary depending on client requirements.

SES Techcom Services and POST Telecom Partner to Develop Smart Cloud-Based ICT Solutions

August 14, 2015 - SES Techcom Services, a wholly-owned subsidiary of SES, and POST Telecom, a leading specialist in Information and Communications Technology (ICT) solutions and a subsidiary of POST Luxembourg, announced that they have entered a new partnership to develop and introduce smart cloud-based ICT solutions worldwide. POST Telecom offers enterprises a range of converged solutions, including server virtualization and online storage, while SES Techcom Services provides a variety of state-of-the-art engineering services, such as broadband connectivity, cloud-based solutions for e-platforms and satellite infrastructure and network operations. The partnership will leverage their core competencies and cutting-edge ICT infrastructures to develop a range of innovative services.

NOAA Signs First U.S. Government Deal with SES for O3b High Throughput Solution

August 17, 2015 - SES Government Solutions (SES GS) has agreed to a one year contract with the National Oceanic and Atmospheric Agency (NOAA) to provide O3b Networks' services and ground equipment to the National Weather Service Office (WSO) in Pago Pago, American Samoa. NOAA's WSO supports the National Weather Service (NWS) mission to provide weather, water, and climate data, forecasts and warnings for the protection of life and property. The WSO also provides critically important tropical cyclone warning information to portions of the Pacific. The contract allows NOAA to expand their broadband connectivity outside the continental U.S. to facilitate the wider dissemination of weather and data forecasting. The O3b ground equipment and services at WSO Pago Pago will be key elements of NOAA's communications link to meet these mission requirements. This particular implementation will enhance NOAA's existing terrestrial connectivity with the use of O3b's high throughput and low latency bandwidth.

Kymeta and Sharp Partner to Manufacture Low-cost Satellite Antennas for High-speed Connectivity

August 18, 2015 - Kymeta Corporation and Sharp Corporation announced a development agreement to design products that will pave the way for cost-effective mobile satellite communications. Under the agreement, Sharp will use its liquid crystal display production technology to manufacture Kymeta's new flat-panel satellite antenna, allowing both companies to create new opportunities for the satellite communications industry. Kymeta antennas use liquid crystal-based metamaterials to solve one of the satellite industry's longest-standing technical challenges: the need for lightweight, slim and efficient antennas that use software to electronically point and steer

towards a satellite, eliminating the need for costly and cumbersome mechanical steering equipment and allowing for rapid setup and installation.

Aircom Pacific Leases Multiple Transponders across AsiaSat Fleet for In-flight Services

August 19, 2015 - Asia Satellite Telecommunications Co. Ltd. (AsiaSat) has reached an agreement with in-flight entertainment and connectivity service provider Aircom Pacific, Inc. (Aircom Pacific) for using AsiaSat's transponder capacity and uplinking services. Under the agreement, Aircom Pacific will use Ka-band and Ku-band capacity on AsiaSat 7 and AsiaSat 8 to deliver its in-flight entertainment and connectivity services for airlines flying routes over Asia. These services include Wifi broadband Internet, streaming TV and videos, streaming gaming, cellular connectivity, and real-time Duty Free shopping and travel services, enabling passengers to enjoy more comprehensive entertainment options during their flight while staying connected to their work and social networks at all times.

ViaSat Wants to Bring Wi-Fi to Australian Skies

August 19, 2015 - US satellite group ViaSat is eyeing a bigger role in the Australian market, including potentially offering its own retail services in-country and working with NBN to offer satellite-based services to aircraft. CEO Mark Dankberg told CommsDay that the company would look to make permanent its Melbourne office, which was set up to oversee its A\$280 million contract for the supply of ground station infrastructure for NBN's long term satellites. NBN's satellite ground infrastructure is now complete, with just some final testing taking place. However, Dankberg said that ViaSat was now looking to increase its activities in Australia in a range of other areas as well as providing technical support for the ground network. ViaSat is currently working with NBN on the best way to make use of its available bandwidth, but he said with an expected total of 135 Gbps satellite capacity, there were a lot of potential applications. One that stands out, he said, was the provision of services to the aviation sector. He said ViaSat would look to work with NBN to provide the technology but would also consider providing the service itself.

Optus Satellite Boosts Business Continuity Credentials

August 21, 2015 - Optus Satellite has launched Australian satellite capability for small to medium business operators with Optus Satellite Business Continuity – a solution that provides a reliable communications alternative for business critical applications during and after an outage. The Optus Satellite Business Continuity service supports critical communications via Optus' Satellite network rather than traditional terrestrial network infrastructure, effectively providing an alternate route for traffic to bypass terrestrial network outages. The Optus Satellite Business Continuity service enables small to medium businesses to run their day-to-day communications requirements on their primary link, such as fiber or ADSL network and have a cost effective safety net for their business critical services in the event of a network disruption. This solution can enable a business to deliver the continuity of service their customers demand in circumstances where other businesses may be forced to close.

Es'hailSat Awards Contract to Build New Teleport in Doha

August 21, 2015 - Es'hailSat has contracted with Promer Qatar Contracting Company W.L.L to design and build the Es'hailSat Teleport. A dedicated 50,000 m² site north of Doha has been chosen as the location for the new, state of the art teleport facility which will provide satellite control and communications support (TT&C) and capacity management, together with a wide range of teleport services such as uplink, downlink, contribution, multiplexing, encoding, playout and broadcasting, tailored for our business partners. The high-tech teleport will also provide back-up studios for TV channels and serve as a disaster-recovery facility for broadcasters. The site will be connected with the key media broadcasters in Qatar by means of a redundant, dedicated fiber optic link. Design for the new teleport is expected to be ready by Q1 2016 and the site build and project completed by Q1 2017.

SpeedCast Announces Landmark Energy Deal

August 24, 2015 - SpeedCast International Limited has been awarded one of its largest ever satellite service agreements in the energy sector. SpeedCast was selected from a field of top global telecommunication and satellite service providers to win a multi-year, multi-million dollar contract, which covers services in over 20 countries for both onshore and offshore in Asia-Pacific and Africa. This award comes from one of the most prestigious global oil and gas service companies in the world and will fully leverage SpeedCast's global scale, network coverage and field support. The contract win further raises SpeedCast's profile in the upstream energy sector and significantly advances its goal to become a leading supplier of satellite communication services to the energy industry worldwide. SpeedCast has designed the solution by leveraging its global network and significant remote operations personnel in its field offices to deliver an exceptional service and uptime commitment for the

customer. The initial network design encompasses over 20 countries and hundreds of remotes provided through a fully managed service. A dedicated team of SpeedCast personnel have been assigned to oversee the project, with the principle objective to deliver a superior customer experience throughout the lifecycle of the project.

Newtec Smashed Efficiency Record

August 24, 2015 - Newtec announced that, together with Intelsat S.A. it has achieved a world first for the amount of throughput in a single transponder. The demonstration was conducted at Intelsat's Fuchsstadt teleport in Germany. Intelsat's and Newtec's engineers used the Newtec MDM6000 Satellite Modem with Newtec's all digital built-in Bandwidth Cancellation (BWC) technology to set the record – which put 20 Mbps into 2 MHz. This result is the latest in a line of successes for Newtec, which has previously broken several speed barriers and has now demonstrated its industry-leading spectral efficiency. Maximizing bits per second per Hz has always been a priority for Newtec and is becoming increasingly important as satellite operators and service providers look to launch new services while also delivering higher performance and improved economics for their customers.

SpeedCast Selected by InterOil to Deliver Highly Available and Flexible Field Connectivity Solutions

August 26, 2015 - SpeedCast International Limited has been awarded a multi-year, multi-million dollar contract for delivery of satellite communications and network services by InterOil Corporation, a leading independent oil and gas business with operations dedicated to Papua New Guinea. With this contract, SpeedCast will provide a range of field connectivity solutions to InterOil's assets located in the Gulf Province of Papua New Guinea. SpeedCast will deliver to InterOil a field connectivity solution, including containerised satellite data and voice communications units, network services, and mobile satellite solutions. With this new contract, SpeedCast will be providing connectivity for 12 locations, including base camps, construction sites and remote rig sites which require rapid mobilisation and demobilisation. For the new contract SpeedCast proposed services that utilize C-band, Ku-band and L-band frequencies to meet the specific requirements of InterOil. The company will use the network to connect field locations for data and voice related IM services.

KVH TracVision Systems Chosen by Monte Carlo Yachts for Newest Megayachts

August 27, 2015 - KVH Industries, Inc announced that its TracVision TV8 marine satellite television antenna system has been chosen by Monte Carlo Yachts as the preferred satellite TV system for the MCY 105, the newest and largest offering in the Italian boat builder's luxury line. The 105-foot megayacht is scheduled to be introduced at several European yachting shows beginning in September 2015. KVH's TracVision TV8 is a powerful marine satellite TV system designed to provide the tracking, reception, and extended coverage needed for yachts traveling to the world's most desirable cruising grounds, harbors, and ports. Compatible with nearly all Ku-band direct-to-home (DTH) services around the globe, the TracVision TV8 enables yacht owners and their guests to enjoy their favorite satellite TV programming with affordability and convenience.

Kratos to Support U.S. Government Satellite Communications

August 28, 2015 - Kratos subsidiary RT Logic has received a \$49 million firm fixed price, IDIQ, single contract award from a U.S. Government Agency for Satellite and Communication System hardware, equipment and products. The period of performance on the contract is five years with funding to be determined with each respective hardware order under the contract vehicle. The dual-use technology being deployed in support of this contract has also been sold to major commercial Satellite Communications (SATCOM) operators to support their new multi-billion dollar investments in High Throughput Satellite (HTS) SATCOM fleets.

GT Telecom Selects Gilat's SkyEdge II-c Platform for Enterprise and Consumer Markets in Russia

August 31, 2015 - Gilat Satellite Networks announced that GeoTelecommunications (GT Telecom), a leading satellite services provider in Russia, selected Gilat's SkyEdge II-c platform for the delivery of high-speed Internet access to business and households throughout the region. Gilat's SkyEdge II-c platform, which will replace an existing VSAT network, was chosen after a long and thorough evaluation process. GT Telecom's due diligence process included the evaluation of all major VSAT competitors as well as extensive testing of Gilat's equipment. GT Telecom is a licensed Russian satellite and telecommunications operator that, since its establishment in 2000, has developed a wide range of services.

Northrop Grumman, ViaSat and Optus to Deliver Next-gen Satcoms to Australian Defence Force

August 31, 2015 - Northrop Grumman Corporation has partnered with ViaSat and Optus to offer the Australian Defence Force (ADF) a proven solution for its utilisation of the Wideband Global SATCOM (WGS) system. Under the team's response to the ADF's tender request, Australia has the opportunity to gain access to Northrop Grumman's Satellite Communications Operations and Planning Element (SCOPE) network management system,

which is the only managing, operating and monitoring system that has already been successfully integrated with the WGS. Northrop Grumman's network management system has been employed by U.S. Army Strategy Command for more than 15 years, and is critical to the successful operation of all six WGS satellites currently in orbit. The team would also offer the proven performance of the ViaSat dual-band satellite terminals. ViaSat brings a long and successful history of delivering satellite communications terminals to customers in the United States and Canada, and most recently delivered 10 complete ground stations for Australia's National Broadband Network (NBN) program.

BROADCASTING

SES Platform Services Takes StarTimes to Africa

August 1, 2015 - African digital TV operator StarTimes has chosen SES Platform Services, the technical services subsidiary of Astra satellite operator SES, to distribute TV channels for its DTH subscribers across Sub-Saharan Africa. Under the new multi-year agreement, SES Platform Services will provide signal turnaround, video processing and uplinking services for StarTimes' SD and HD channels at its broadcast facility in Germany. StarTimes has more than 5 million DTT and DTH subscribers across 16 countries in Africa and currently provides English-language TV content to viewers across the region via the SES-5 satellite at 5 degrees East.

HISPASAT Widens its Television Distribution Services with Goonhilly Earth Station Agreement

August 4, 2015 - HISPASAT has reached an agreement with British teleport owners Goonhilly Earth Station (GES) Ltd to provide television distribution services throughout Europe. A transponder from the Hispasat 1E satellite will provide the capacity contracted over the next three years, which will be transmitted by means of one of the teleport antennas. The entire process chain of transmission has been set up and will be provided by GES. Through this agreement, both companies are introducing an attractive commercial offer to the market, which is aimed at achieving maximum flexibility so that the television channels can avoid the traditional barriers they come across, both in terms of cost and time scale, when they want to distribute their channels.

Deutsche Welle to Broadcast across Eastern Europe and Africa via SES Satellites

August 5, 2015 - German broadcaster Deutsche Welle has signed a new long-term capacity agreement on three SES satellites to broadcast two channels in Eastern Europe and Africa. Deutsche Welle will be broadcasting its German-language TV channel DW via the ASTRA 4A satellite, allowing more than six million direct-to-home households in Eastern Europe and 40 million cable and IPTV households in Europe to receive the channel directly and indirectly. Deutsche Welle will also broadcast its new English-language channel across Eastern Europe and Africa via the ASTRA 4B and SES-5 satellites. The 24-hour news and information channel, which broadcasts events from Germany and around the world, was already launched on 22 June via ASTRA 19.2 degrees East.

SKY Television Expands Relationship with NetCracker to Optimize Billing and Customer Experience

August 11, 2015 - NetCracker Technology announced that SKY Television, the leading satellite pay-TV provider in New Zealand, entered into an agreement to expand the NetCracker Billing and Revenue Management solution and form a 7-year strategic partnership for professional services with NetCracker. This will enable SKY to bring more innovative offers to market and establish a more customer-centric approach to billing. NetCracker is upgrading its cutting-edge Billing and Revenue Management solution with enhanced functionality as part of the project with SKY. This will enable SKY to improve its billing and customer care functionality and leverage a more sophisticated self-service portal, which will enhance visibility into customer operations and augment experience.

SpeedCast Serviços Multimedia Selects Eutelsat 65 West A for Professional Video Services

August 25, 2015 - Eutelsat do Brasil, the Brazilian affiliate of Eutelsat Communications, has signed a multi-year agreement with SpeedCast Serviços Multimedia for Ku-band capacity on the upcoming Eutelsat 65 West A satellite to support professional video services. SpeedCast Serviços Multimedia is a longstanding player in the Brazilian telecommunications market, providing professional C and Ku-band video services through its teleport in Barueri and soon to open state-of-the-art teleport in Santana do Parnaíba, also in the state of São Paulo. The company pioneered high definition broadcasting via satellite in Brazil and is playing a key role in the transition to digital TV. Eutelsat 65 West A is due for launch during the second half of 2016 to the 65 degrees West orbital position that is a reference for Brazilian broadcasting. It will bring new capacity over Brazil and support the roll-out of Ultra HD that is expected to begin as early as next year.

Newtec Upgrades the Broadcasting Capabilities of TV Globo's SNG Fleet.

August 25, 2015 - Newtec announced it has upgraded the broadcasting capabilities of TV Globo's Satellite News Gathering (SNG) fleet. TV Globo, the leading Brazilian television network, selected the M6100 Broadcast Satellite Modulator for the transition of its news feeds to High Definition (HD). The upgrade fits into an all HD production strategy and includes the entire SNG news fleets of the Rio de Janeiro, São Paulo and Brasília TV Globo stations. By using the futureproof and flexible design of the M6100 Broadcast Satellite Modulator, TV Globo secures significant bandwidth savings based on open standards. Contribution of news feeds in DVB-S2 standard with the short roll-off factors of Newtec's Clean Channel Technology, provides efficiency gains of up to 15%. Moreover, this new transmission scheme allows reuse of legacy IRDs. The M6100 can be upgraded with a DVB-S2X software license to ensure further performance improvement and bandwidth reduction.

New Server Set-Top Box under the General Satellite Brand to Increase the Number of Mobile TV Viewers

August 27, 2015 - In August 2015, the GS Group holding company released a new twin-tuner server set-top box under the General Satellite brand, designed for the Russian market – GS E502. The latest-generation digital set-top box allows watching satellite TV simultaneously on two screens: TV and tablet or smartphone. Tricolor TV, the leading Russian digital TV operator, has already confirmed its interest in this equipment. The GS E502 server STB is aimed at providing a greater number of users with the opportunity to watch TV on mobile devices. Design of the new set-top box includes two DVB-S/DVB-S2 tuners for receiving and transmitting the satellite signal simultaneously on a TV screen and a "second screen": tablet or smartphone. User is able to watch TV content on a mobile device subject to availability of a valid satellite TV subscription and a special mobile application installed. Advanced TV viewing is available within the household where the server set-top box is connected by wire to the Wi-Fi router of the in-home network.

Globecast Enhances Channel Monitoring with Actus

August 27, 2015 - Actus Digital, a developer of web-based broadcast monitoring platforms for content analysis, media monitoring and cross-platform content repurposing, announced that Globecast has installed the Actus Platform monitoring solution in its media centers. Globecast provides media management and distribution services for leading broadcasters and operates three media centers strategically located in Singapore, London and Los Angeles. The new implementation will enable Globecast to provide compliance and content quality monitoring to its broadcast clients, including BBC Worldwide. To support this, the Actus system stores and provides access to channel content in native format from the transport stream (TS) feed, which additionally provides engineering personnel with metadata and other information for diagnostic purposes. Alongside this, Actus has also announced a new Change Tracker software module that extends this capability even further by comparing outgoing and off-air feeds and flagging significant differences according to user-defined rules.

Radiodiffusion-Télévision Ivoirienne (RTI) Now Available on Arabsat

August 27, 2015 - RTI is now offered across the Middle East, North Africa & Europe via the superior coverage of ARABSAT BADR-4 as the agreement between RTI and Arabsat. The agreement gives African and Middle Eastern audiences the opportunity to watch RTI via the minimum dish size. ARABSAT viewers across the Middle East & North Africa will receive RTI combined with an extensive offering & wide varieties of the prime Free-To-Air international and regional news channel on ARABSAT hotspot at 26 degrees East.

KBS World Comes to Tivusat DTH Platform

August 31, 2015 - KBS World, the international channel of the Korean public service will be available on Tivusat, the Italian free-to-view satellite DTH platform. KBS World is a South Korean television channel operated by Korean Broadcasting System (KBS) aimed at international audiences outside South Korea. It was launched on July 1, 2003. It mainly broadcast in Korean, but subtitles in English are also provided. Programs on KBS World are sourced from KBS's two domestic television services; KBS1 and KBS2. Just about all genres of programming can be seen in KBS World television service including news, dramas, documentaries and children's programming. Broadcasts mostly in Korean, it also shows an English language news bulletin, KBS World News Today, on weekdays, and other original productions like The Three Colors of Korea. KBS World will be available in HD, and can be received via decoder equipped with tivusat HD Gold Sticker or via TV equipped with tivusat HD Ready white sticker and tivusat CAM. With the new addition, Tivusat now offers 69 channels on the platform, of which seven are available in HD.

LAUNCH / SPACE

RUAG and ULA Establish a Strategic Partnership

August 3, 2015 - United Launch Alliance (ULA) and RUAG announced a new strategic partnership in which RUAG will establish a U.S. composites production capability located within ULA's Decatur factory. RUAG already delivers carbon fiber structures for ULA's Atlas launchers – the payload fairing for the larger Atlas V-500 launcher as well as the interstage adapter for the smaller Atlas V-400. RUAG currently produces these structures in Switzerland at its Zurich and Emmen locations. Beginning in 2018, the structures are to be produced in Decatur, where RUAG will also manufacture other carbon fibre structures for the new Vulcan launcher. RUAG will continue to manufacture the payload fairings for the European Ariane and Vega rockets in Switzerland.

Lockheed Martin Awarded Commercial Atlas Launch Contract for EchoStar XIX Communications Satellite

August 5, 2015 - Lockheed Martin Commercial Launch Services has been selected by EchoStar Corporation to provide commercial launch services for the EchoStar XIX communications satellite. The satellite is scheduled to launch in late 2016 on a United Launch Alliance Atlas V rocket from Cape Canaveral Air Force Station, Florida. EchoStar XIX, also known as JUPITER 2, is a large, multi-spot beam Ka-band satellite that will help meet the growing demand for HughesNet® high-speed satellite internet service in North America. The satellite, built by SSL, is designed to provide service for 15 years or longer.

Yahsat and Orbital ATK Successfully Complete the Critical Design Review of Al Yah 3 Satellite

August 10, 2015 - Yahsat, the UAE-based satellite operator, and Orbital ATK announced that they have completed the Critical Design Review (CDR) for the Al Yah 3 spacecraft and payload. Yahsat senior management were in Virginia, USA with its partner Orbital ATK, and Yahsat's team of engineers embedded at the facilities for this project, to complete the review and oversee this critical moment that represented the final stage before assembling all components of the satellite together. Al Yah 3, which is based on Orbital's GEOStar-3™ platform, is an all Ka-band High Throughput Satellite being designed, manufactured and tested at Orbital ATK's satellite manufacturing facility in Dulles, VA. The CDR is conducted during the Engineering and Manufacturing Development phase, and completion of this indicates that all specifications and requirements have been captured into the overall final design of the satellite.

Australia's Hypersonic Industry to Join the Space Community with Reusable Launcher

August 10, 2015 - The University of Queensland's Centre for Hypersonics is planning a three-stage transformational space project called SPARTAN, designed to deliver satellites weighing up to 500kgs into orbit and allowing them to be monitored nationally or internationally. Chair of Hypersonic Propulsion Professor Michael Smart said the program aimed to take advantage of dramatic growth in the small satellite market. Stage one of the system consists of an Austral Launch Vehicle (ALV), a reusable rocket booster that lifts the upper stages of the rocket to scramjet take-over speed of Mach five, before flying back to base using wings and propellers. The second stage SPARTAN scramjet will fly like a plane up to Mach 10, releasing the final rocket/satellite that stays in space, before it too returns to base. The combination of the ALV and SPARTAN allows 95 per cent of the system to be reusable. Partnering with Australian-based Heliq Advanced Engineering, the team is developing sub-scale versions of the ALV and SPARTAN as technology demonstrators. It is expected that a subscale demonstrator (ALV-0) with a three-meter wingspan will be flown by the end of 2015.

Venture Capital to Nurture ESA Space Applications

August 11, 2015) ESA will give the most promising European space applications, services and technologies the chance to access a substantial new source of venture capital finance. ESA has signed an agreement with the £83 million (€116 million) Seraphim Space & Special Situations Fund to work alongside ESA's Advanced Research in Telecommunications Systems (ARTES) Applications programme. The Fund will also back other space-related investment opportunities beyond ESA. It will be launched later this year to harness the finance, expertise and market access of a range of leading space companies and institutions, helping to accelerate business growth and market opportunities for industry. The Fund is supported by the UK Space Agency with backing from Thales Alenia Space, Airbus Defence & Space, Telespazio, Com Dev International, Avanti Communications and e2v and a growing list of other leading multinational space companies with combined annual revenues approaching €30 billion. The concept of creating a partnership between industry, government and academia to develop, grow and exploit new space-related opportunities was conceived as part of the UK's Space Innovation and Growth Strategy, which started in 2010.

Orbital ATK Updates Progress on International Space Station Cargo Delivery Program

August 12, 2015 - Orbital ATK is making excellent progress in resuming its cargo delivery service to the International Space Station (ISS) for NASA under the Commercial Resupply Services (CRS) contract. Orbital ATK is on track to launch its next CRS mission late this year and is moving forward with integration of a new first stage propulsion system into the Antares launch vehicle in preparation for multiple CRS missions in 2016. Three main CRS program efforts are simultaneously underway, including preparing the enhanced Cygnus spacecraft for the next ISS cargo mission (OA-4) to launch aboard an Atlas V rocket this December; upgrading the Antares rocket by integrating and testing the new RD-181 main engines with the modified first stage core structure; and working with the Mid-Atlantic Regional Spaceport (MARS) to complete repairs to the Pad 0A launch complex at Wallops Island to support the resumption of CRS missions from Wallops Island in early 2016.

Ariane 6 and Vega C Begin Development

August 12, 2015 - European Space Agency (ESA) signed contracts for the development of the Ariane 6 new-generation launcher, its launch base and the Vega C evolution of the current ESA small launcher. The contracts, signed at ESA's Paris Head Office with Airbus Safran Launchers (ASL), France's CNES space agency and ELV, respectively, cover all development work on Ariane 6 and its launch base for a maiden flight in 2020, and on Vega C for its 2018 debut. ESA is overseeing procurement and the architecture of the overall launch systems, while industry is developing the rockets, with ASL as prime contractor and design authority for Ariane 6, and ELV for Vega C. ASL and ELV are working closely together on the P120C solid-propellant motor that will form Vega C's first stage and Ariane's strap-on boosters. Ariane's modular approach will offer either two boosters (Ariane 62) or four boosters (Ariane 64), depending on the required performance. The site of the launch pad for Ariane 6 at Europe's Spaceport in Kourou, French Guiana has been chosen, and prime contractor CNES is already excavating the site. The new complex will also include facilities for preparing the launcher. The three contracts follow the decision taken at the ESA Council meeting at Ministerial level held in Luxemburg in December 2014 to maintain Europe's leadership in the fast-changing commercial launch service market while responding to the needs of European institutional missions.

Airbus Safran Launchers Awarded Ariane 6 Development Contract by European Space Agency

August 12, 2015 - The European Space Agency (ESA) and Airbus Safran Launchers today signed a €2.4 billion contract covering the development of the Ariane 6 launcher in its two versions, Ariane 62 and 64. This contract includes, notably, a firm commitment of some €680 million for initial development activities (phases A & B) up to the Preliminary Design Review scheduled for mid-2016. Beyond the contract signed today the total amount for the development of the launcher will be approximately €3 billion, including boosters to be shared by Ariane and Vega, as well as €400 million of industrial investment. The Airbus Safran Launchers teams will now finalize the design of the two versions of the Ariane 6 launcher and the accompanying industrialisation process as part of a new industrial structure established within Europe to improve efficiency.

ISS-Reshetnev Celebrates Milestone Launch

August 18, 2015 - On August 18, 2015 Information Satellite Systems – Reshetnev Company is celebrating the 51st anniversary of the day when a Cosmos-3 launch vehicle with three experimental communications satellites was launched into orbit. That rocket was the first product developed by the company on its own. ISS-Reshetnev Company traditionally held a series of events to commemorate this significant date. The celebrations included a public meeting at the Mikhail Reshetnev Square which was attended by ISS-Reshetnev's management, employees, veterans and retirees. Nikolay Testoyedov, General Director of the company, while addressing to the people gathered at the square spoke on ISS-Reshetnev's long history full of noteworthy events and stressed the utmost importance the successful implementation of the Cosmos-3 project had for the fledgling Siberian satellite company.

Launch Success of H-II Transfer Vehicle KOUNOTORI5 (HTV5) by H-IIB Launch Vehicle No. 5

August 19, 2015 - Mitsubishi Heavy Industries, Ltd. and the Japan Aerospace Exploration Agency launched the H-IIB Launch Vehicle No.5 (H-IIB F5) with the KOUNOTORI5 (HTV5, a cargo transfer vehicle to the International Space Station) onboard at 8:50:49 p.m. on August 19 (Wed.) 2015 (Japan Standard Time, JST) from the Tanegashima Space Center. The launch vehicle flew smoothly, and, at about 14 minutes and 54 seconds after liftoff, the separation of the KOUNOTORI5 was confirmed.

Airbus Defence and Space Designs Payload Platform for NanoRacks

August 19, 2015 - Airbus Defence and Space has designed and built a payload platform for the International Space Station (ISS) for NanoRacks LLC, a privately-owned US space company. The platform will be installed

outside of the ISS, and will be used to carry out multiple experiments to be carried out with a wide variety of payloads in zero gravity conditions. Airbus Defence and Space, the second-largest space company in the world, will be responsible for integrating the payload as well as for operating the payload platform. Airbus Defence and Space plans to work with NanoRacks LLC to market the system globally. The first NanoRacks External Payload Platform (NREP) is expected to be launched on Aug. 19, 2015 from the Tanegashima Space Center in Japan. It will be carried aloft on the Japanese HTV 5 supply transporter to the ISS.

Airbus Defence and Space and Lime Microsystems Partner for the Development of GNSS Products

August 20, 2015 - Lime Microsystems and Airbus Defence and Space, with funding from Innovate UK (formerly the Technology Strategy Board), have announced a joint development of robust GNSS products. Airbus Defence and Space, using Lime's Field Programmable RF (FPRF) transceiver technology, is developing a robust timing receiver that exploits signals from the new Galileo satellite navigation constellation. It is envisaged that a highly integrated Field Programmable RF (FPRF) solution based on Lime's technology and an innovative system implementation of the kind provided by Airbus D&S will provide a high performance GNSS product with the potential for integration with other wireless capabilities.

Ariane 5 Successfully Launched Satellites for Eutelsat and Intelsat

August 21, 2015 - Arianespace successfully launched EUTELSAT 8 West B and Intelsat 34 satellites on Ariane 5 launcher from the Guiana Space Center in Kourou, French Guiana. EUTELSAT 8 West B will provide high-definition and ultra-high-definition direct TV broadcast services to North Africa and the Middle East, as well as telecommunications services across Africa and in the eastern part of South America. Intelsat 34 will provide C-band telecommunications services for Latin America and Ku-band services in Brazil. In addition, it will offer Ku-band broadband Internet services for maritime and aeronautical operators in the North Atlantic. EUTELSAT 8 West B is the 30th satellite orbited by Arianespace for Eutelsat, the leading satcom operator in Europe, North Africa and the Middle East, and number 3 worldwide in terms of revenues. Arianespace currently has three more satellites in its order book to be launched for Eutelsat. Intelsat 34 is the 55th satellite orbited by Arianespace for Intelsat, the world leader in fixed satellite services in terms of revenues and in-orbit capacity. Arianespace has four more Intelsat satellites in its backlog of launch orders.

Intelsat Announces Successful Launch of Intelsat 34

August 21, 2015 - Intelsat S.A. announced that its Intelsat 34 satellite was launched successfully from French Guiana aboard an Ariane 5 vehicle. Intelsat 34 is a C- and Ku-band satellite to be placed into service at the 304.5 degrees East orbital location. It will replace Intelsat 805 and Galaxy 11 as the third in Intelsat's leading Latin America, pan-regional video distribution neighborhood (which includes Intelsat 11 and Intelsat 21). Intelsat 34 includes a C-band payload which will deliver media distribution services for blue chip media powerhouses including Fox Sports and HBOLA. The satellite also hosts a leading Direct-to-Home (DTH) platform in Ku-band as well as a specialized Ku-band payload serving the North Atlantic that will support broadband services for the fast growing aeronautical and maritime mobility sector. Intelsat 34 was built by SSL.

SSL-built Satellite for Intelsat Begins Post-launch Maneuvers according to Plan

August 21, 2015 - Space Systems/Loral (SSL) announced that a satellite designed and built for Intelsat S.A. is successfully performing post-launch maneuvers according to plan. The satellite, Intelsat 34, deployed its solar arrays on schedule following its launch aboard an Ariane 5 launch vehicle from the European Spaceport in Kourou, French Guiana. It will begin firing its main thruster later today in order to propel it toward its final geosynchronous orbit. Featuring C- and Ku-band payloads, Intelsat 34 will support the expanding demand for Direct-to-Home television service and broadcast television distribution in Latin America. It will also provide broadband services for maritime and aeronautical use in the North Atlantic region. Upon reaching its final orbital position of 304.5 degrees East longitude, Intelsat 34 will replace Intelsat 805 and Galaxy 11. Intelsat 34 is based on the powerful SSL 1300 platform, which has the flexibility to support a broad range of applications and technology advances. The satellite is designed to provide service for 16 years or more.

Successful Launch of the EUTELSAT 8 West B Satellite, Built by Thales Alenia Space

August 21, 2015 - The EUTELSAT 8 West B communications satellite was successfully launched from the Guiana Space Center in Kourou, French Guiana, by an Ariane 5 rocket. Thales Alenia Space is the program prime contractor, working on behalf of Eutelsat Communications. EUTELSAT 8 West B is the 25th satellite built by Thales Alenia Space for Eutelsat and the 74th satellite in the Spacebus family to enter service. The EUTELSAT 8 West B satellite is equipped with 40 operational Ku-band transponders, primarily intended for direct-to-home (DTH) TV broadcast markets in North Africa and the Middle East. It will also introduce a C-band mission at the 8°

West position, with ten operational transponders covering the African continent and reaching west to South America. Based on the Thales Alenia Space Spacebus 4000C4 platform, with a 12 kW payload, EUTELSAT 8 West B weighed 5,800 kg at launch. Its expected orbital life exceeds 17 years, with a specified design life of 15.25 years.

Orbital ATK to Produce Satellite Propellant and Pressurant Tanks for Lockheed Martin

August 24, 2015 - Orbital ATK recently signed a contract with Lockheed Martin to produce propellant and pressurant tanks for Lockheed Martin's updated A2100 satellite platform. The five-year contract continues a 20-year relationship between Orbital ATK and Lockheed Martin for satellite fuel tanks produced by the company's Space Systems Group in Commerce, California. Lockheed Martin's A2100 satellite constellation offers global telecommunications applications for government, commercial and civil customers. Since the mid-1990s, Orbital ATK has supplied all but two of the flight sets for the A2100. The company was the innovator for the hybrid composite, reinforced propellant tanks and continues to be the industry leader in this technology.

Lockheed Martin Makes Tiny Satellite Cooling System Three Times More Powerful

August 25, 2015 - Lockheed Martin scientists are packing three times the power density into a key satellite cooling system whose previous design is already the lightest in its class. This project continues the company's effort to reduce component size, enabling compact, higher-power spacecraft payloads and smaller sensor platforms back on Earth. Highly sophisticated electronics like satellite sensors and cameras need to be cooled to detect what they're designed to capture, even to temperatures as low as -320 F (-195 C). Smaller cryocoolers mean more affordable satellites and launches, and they have applications on Earth, too. With higher power, this microcryocooler enables larger, more sensitive IR sensors, which is especially useful for very high-resolution images. Despite its increased capability, the component's power efficiency rating is roughly the same as lower-power coolers.

SSL Awarded DARPA Contract to Study On-orbit Satellite Assembly

August 26, 2015 - Space Systems/Loral (SSL) announced it was awarded a contract from the U.S. Defense Advanced Research Projects Agency (DARPA) to study on-orbit robotic assembly of geostationary communications satellites. Called Dragonfly, the program is designed to enable larger and more powerful satellites that cannot be launched fully assembled, to be packaged in pieces within a standard launch vehicle fairing. As one of the world's most prolific manufacturers of geostationary communications satellites, SSL brings a wealth of expertise to the Dragonfly study including heritage robotics. The Dragonfly concept, which is designed to have both military and commercial applications, is for satellites to self-assemble from an efficiently stowed state while in orbit with a focus on the installation and reconfiguration of large radio frequency (RF) antenna reflectors. The study is scheduled for a five-month first phase during which SSL will seek to demonstrate how assembling satellites on orbit could lower satellite cost and mass, while at the same time enabling higher satellite performance. SSL is planning to further develop on-orbit satellite assembly capability and as part of this effort, has submitted a proposal to NASA for collaboration on taking the concept to a ground demonstration followed by a flight application.

GSLV Successfully Launches India's Latest Communication Satellite GSAT-6

August 27, 2015 - In its ninth flight (GSLV-D6) conducted on August 27, 2015, India's Geosynchronous Satellite Launch Vehicle, equipped with the indigenous Cryogenic Upper Stage (CUS), successfully launched GSAT-6, the country's latest communication satellite, into a Geosynchronous Transfer Orbit (GTO). The achieved orbit is very close to the intended one. The launch took place from the Second Launch Pad at the Satish Dhawan Space Centre SHAR (SDSC SHAR), Sriharikota, the spaceport of India. This was the fifth developmental flight of GSLV and the third to carry the indigenous CUS. GSLV-D6 was intended to further test and qualify the CUS developed by ISRO. In its oval shaped GTO, the GSAT-6 satellite is now orbiting the Earth with a perigee (nearest point to Earth) of 168 km and an apogee (farthest point to Earth) of 35,939 km with an orbital inclination of 20.01 deg with respect to the equator.

ILS Proton Successfully Launches Inmarsat-5 F3 Satellite

August 29, 2015 - An International Launch Services (ILS) Proton Breeze M successfully placed the Inmarsat-5 F3 (I-5 F3) satellite into a super-synchronous transfer orbit (SSTO). I-5 F3 is the third of Inmarsat's next-generation Global Xpress satellites, which launched on an ILS Proton. The satellite was manufactured by Boeing Satellite Systems International and built on the reliable 702HP platform. Weighing over 6 metric tons at lift-off, the I-5 F3 satellite has 89 Ka-band fixed beams and 6 steerable ones. I-5 F3 is designed to generate approximately 15 kilowatts of power at the start of service and approximately 13.8 kilowatts at the end of its 15-year design life. To

generate such high power, the spacecraft's two solar wings employ five panels of ultra-triple-junction solar cells. Global Xpress will be the first globally available high-speed mobile broadband network, delivered through a single provider. It will offer the unique combination of global coverage, consistent high-speed performance, and the network reliability for which Inmarsat is renowned. GX services will be deployed to serve the advanced mobility needs of Inmarsat's existing customers on land, at sea and in the air, will diversify Inmarsat's business into existing adjacent government and energy markets, and position Inmarsat in the vanguard of new, high-growth military-Ka, aviation passenger, maritime and other connectivity markets.

Inmarsat Confirms Successful Launch of the Third Global Xpress (GX) Satellite

August 29, 2015 - Inmarsat has confirmed the successful launch of its third satellite in the transformational Global Xpress (GX) constellation. Inmarsat-5 F3 (I-5 F3), which was launched from the Baikonur Cosmodrome in Kazakhstan at 12.44pm (BST), entered orbit this morning at 04.15 am (BST) following a 15 hour and 31 minute mission. Over the coming weeks, the Inmarsat Operations Team will raise I-5 F3 to its final orbit, deploy its solar arrays and reflectors, and undertake payload testing. At the end of these procedures, I-5 F3 will be ready to join the first two GX satellites, which are already in orbit and operating successfully, to create the first, globally available, high-speed mobile broadband network delivered by a single operator. The first Global Xpress satellite – Inmarsat-5 F1 – was launched in December 2013 and entered commercial service in July 2014, covering Europe, the Middle East, Africa and Asia. This was followed by the launch of Inmarsat-5 F2 on 1st February 2015, which covers the Americas and the Atlantic Ocean and entered commercial service this month (August).

EXECUTIVE MOVES

Gena Lovett Joins Boeing Defense as Vice President of Operations

August 3, 2015 - Gena Lovett is joining Boeing as vice president of Operations for Boeing Defense, Space & Security (BDS). She has more than 20 years of leadership experience in both operations and manufacturing. Lovett will be responsible for manufacturing activities at 20 major installations around the world along with the safety, lean manufacturing, quality, and supplier management initiatives that BDS is pursuing. Lovett succeeds Bill Schnettgoecke, who retired after 36 years with Boeing. She previously served as Alcoa's director of manufacturing from 2007 to 2011 and most recently as the company's chief diversity officer. Prior to that, Lovett held numerous leadership positions at Ford Motor Co. during a 15-year career which culminated as plant manager of Prototype Operations.

Northrop Grumman Aerospace Systems Announces Organizational Realignment

August 6, 2015 - Northrop Grumman Corporation announced an organizational realignment to improve performance and drive profitable growth across the company's Aerospace Systems portfolio. Chris Hernandez has been appointed vice president of the newly formed research, technology and advanced design organization. Mary Petryszyn has been appointed vice president of the newly formed global business development organization. Petryszyn, who formerly led the International organization, will integrate the sector's business development and strategy organizations to align with the company's growing global business areas. This alignment underscores the company's single worldwide strategy. Tom Pieronek has been appointed vice president of basic research, reporting to Hernandez. Pieronek will lead collaborative research groups to identify, develop and align core science capabilities to enable key markets and new business areas.

REPORTS

Satellite Earth Observation Market to Reach \$4.5 billion in Next Decade

August 24, 2015 - NSR's Satellite-Based Earth Observation (EO), 7th Edition report, forecasts that data, value-added services and Information Products markets from Earth Observation (EO) will reach \$4.5 billion by 2024, from \$2.3 billion in 2014. A thriving Information Products segment will drive the EO market as the industry transitions to an era of very-high resolution imagery and increased adoption of 'big data' analytics products in the face of decreasing data prices for medium and high resolution imagery. The market saw a sizable increase of \$200 million in 2014 due to an economic recovery leading to greater expenditure by governments, and a thriving Information Products segment.

\$255 Billion for Manufacture & Launch of 1,400 Satellites over Next Decade

August 25, 2015 - According to Euroconsult's newly released report, Satellites to be Built & Launched by 2024, 140 satellites with launch mass over 50 kg will be launched on average each year over the next decade for governments and commercial companies. In comparison with last year's forecast, the number of satellites is due to grow more than the market value over the decade. The report said that increase in satellite number would be significantly higher if two mega-constellation projects for small communications satellites were included in the forecast. The 1,400 satellite count over the decade already includes 350 satellites to be deployed by ten commercial constellations into low or medium Earth orbits for communication or Earth observation.

UPCOMING EVENTS

IBC 2015, September 10-15, 2015, Amsterdam, the Netherlands, www.ibc.org

World Satellite Business Week, September 14-18, 2015, Paris, France, www.satellite-business.com

VSAT 2015, September 16-18, 2015, London, U.K., <http://vsatevent.com/>

APSCC 2015 Satellite Conference and Exhibition, September 22-24, 2015, Seoul, Korea, www.apsc.or.kr

2015 Joint Conference on Satellite Communications (JC-SAT 2015), October 7-8, 2015, Osaka, Japan, www.kosst.or.kr

Hosted Payload and Smallsat Summit, October 8, 2015, Washington DC, USA, www.hostedpayloadsummit.com

Broadcast India 2015, October 15-17, 2015, Mumbai, India, www.broadcastindiashow.com

CASBAA Convention 2015, October 26-28, 2015, Hong Kong

The television industry is experiencing a sea-change with the introduction of online, on demand and TV Everywhere. Audiences are both expanding and fracturing simultaneously. The future is now, but are we all bold enough to embrace the change? The Convention will take place between October 26th-28th 2015 at the Intercontinental in Hong Kong. Join us now to examine the latest development of the television industry. For more information, please visit www.casbaaconvention.com

Global MilSatCom, November 3-5, 2015, London, UK, www.globalmilsatcom.com/apsc

The 17th annual Global MilSatCom conference and exhibition is Europe's leading military satellite communications event. Global MilSatCom 2015 will feature 40 key presentations from the industry's most senior military representatives who use MilSatCom in their operations alongside the world's leading SatCom solutions providers and operators. For further information please visit www.globalmilsatcom.com/apsc

SATCON 2015, November 11-12, 2015, New York, USA, www.satconexpo.com

GVF Oil & Gas Connectivity 2015, November 12-13, 2015, Kuala Lumpur, Malaysia, <https://gvf.org/>

Oil & Gas Connectivity – The Kuala Lumpur Meeting 2015 brings the GVF-EMP Oil and Gas Series to its landmark 25th event, and to the eighth annual meeting in the global Series to address the connectivity and networking imperatives of the South East Asian region of the global 'oil and gas patch'. The KL Meeting 2015 is scheduled to include discussion of some 25 themes during two days of dialogue, which will take place at the InterContinental Hotel in central Kuala Lumpur.

Asia-Pacific Regional Space Agency Forum (APRSAF-22), December 1-4, 2015, Bali, Indonesia, www.aprsaf.org

Editorials and Inquiries

News, comments, and suggestions can be sent to the editor at:

Inho Seo, Editor, APSCC Publications
Asia-Pacific Satellite Communications Council (APSCC)
T-1602, 170, Seohyeon-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, SEOUL 463-862 Rep. of KOREA
Tel: +82 31 783 6247
Fax: +82 31 783 6249
E-mail: inho_seo@apsc.or.kr
Website: www.apsc.or.kr

About APSCC

APSCC is a non-profit, international organization representing all sectors of satellite and space-related industries. The aim of the organization is to exchange views and ideas on satellite technologies, systems, policies and outer space activities in general along with satellite communications including broadcasting for the betterment of the Asia-Pacific region. Conferences, forums, workshops, and exhibitions are organized through regional coordination with its members in order to promote new services and businesses via satellite as well as outer space activities. APSCC membership is open to any government body, public or private organization, association, or corporation that is involved in satellite services, risk management or associate fields such as data-casting, informatics, multi-media, telecommunications and other outer-space related activities with interests in the Asia-Pacific region. More information is available at www.apsc.or.kr.