APSCC Monthly e-Newsletter
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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.apscc.or.kr. To unsubscribe, send an email to info@apscc.or.kr with a title "Unsubscribe."

News in this issue has been collected from April 1 to April 30.

INSIDE APSCC

APSCC 2024 Satellite Conference & Exhibition (APSCC 2024), November 5-7, Bangkok
APSCC Satellite Conference and Exhibition, the largest three-day annual gathering of the Asia Pacific satellite and space community, is your defining platform that brings the industry together for market insight, striking partnerships and concluding business deals. This year the APSCC 2024 Satellite Conference and Exhibition will be heading to Bangkok, Thailand. Regarding sponsorship, exhibition and speaking opportunity, please contact the APSCC 2024 team at apscc2024@apscc.or.kr

SATELLITE BUSINESS

SES to Acquire Intelsat in Compelling Transaction Focused on the Future
April 30, 2024 – SES and Intelsat announce an agreement for SES to acquire Intelsat through the purchase of 100% of the equity of Intelsat Holdings S.a.r.l. for a cash consideration of $3.1 billion (€2.8 billion) and certain contingent value rights. The combination will create a stronger multi-orbit operator with greater coverage, improved resiliency, expanded suite of solutions, enhanced resources to profitably invest in innovation, and benefit from the collective talent, expertise, and track record of both companies. The combination will deliver greater value for customers and partners, as well as providing a compelling alternative in the new era of growth, innovation, and competition for the satellite communications industry. The transaction, which is subject to relevant regulatory clearances/filings and customary provisions concerning cooperation and measures in seeking such regulatory clearances, which are expected to be received during the second half of 2025, is fully supportive of SES's financial policy and is underpinned by expected total synergies equivalent to 85% of the total equity value of the transaction. The transaction has been unanimously approved by the Board of Directors of both companies and Intelsat shareholders holding approximately 73% of the common shares have entered into customary support agreements requiring them to vote in favour of the transaction. Read more

Intelsat, CNH Smart Farming Satellite Connectivity Coming to Brazil
April 29, 2024 – Intelsat and CNH, whose brands include Case IH, New Holland and Steyr, agreed to install, connect and operate ruggedized multi-orbit satellite terminals on CNH farm equipment operating in remote farmland throughout Brazil with Intelsat's global network. Intelsat and CNH plan to introduce the solution in Brazil in the third quarter of the year. Farming is a large part of the Brazilian economy and Intelsat has invested in infrastructure to provide a new level of service throughout the country. Read more

Hughes Opens New Manufacturing Facility and Private 5G Incubation Center in Maryland
April 26, 2024 – Hughes Network Systems, LLC (HUGHES), an EchoStar company, today announced the opening of a new cutting-edge manufacturing facility and private 5G incubation center in Germantown, Maryland, underscoring the long-standing commitment of Hughes to technological

advancement and fostering local talent in the region. The Hughes Manufacturing Facility (EXM) produces U.S.-made hardware that powers the networks on which people, enterprises, and governments everywhere depend, like the Hughes HT3000W JUPITER™ System satellite modem and the Hughes HL1120W Low Earth Orbit (LEO) satellite terminal. In addition to about 400 engineers, technicians and manufacturing staff, the Hughes EXM facility utilizes advanced robotics to assist in the manufacture of high-tech products such as satellite modems and terminals. The EXM facility will also serve as a testing ground for private 5G solutions just now reaching the market for Enterprise applications as well as secure 5G networking applications critical to the U.S. Department of Defense. Read more

AAC Clyde Space Leads Consortium to Develop Laser Communication System

April 26, 2024 – AAC Clyde Space's subsidiary AAC Hyperion and its partners, Netherland's FSO Instruments and TNO, have agreed to develop the next generation of laser communication terminals for small satellites. In the project, AAC Clyde Space is to deliver a compact, low-cost, laser system capable of transmitting data from space at a speed of up to 10 Gbps. The project is planned to be finalized during the third quarter 2026. AAC Hyperion will productionise the existing 1 Gbps system, CubeCAT V1, in corporation with FSO Instruments. This will also expand CubeCat's capacity to 10 Gbps to generate a next-generation terminal to enable space-to-ground communication between small satellites and optical ground stations. Read more

Significant SAILOR XTR Contract Leads New Strategic Agreement with China TranTech

April 25, 2024 – Cobham Satcom and China TranTech (China TranComm Technologies Co., Ltd.) have signed a strategic contract which includes the largest delivery of SAILOR XTR Ku VSAT antennas to the Chinese market so far, supported by an extensive training and global service program. China TranTech is a subsidiary of China Transport Telecommunication Information Group Company Limited (CTTIC) and the only maritime satellite safety communication provider in China. Its selection of Cobham Satcom to enable dependable connectivity for Chinese commercial shipping reflects the position that SAILOR XTR antennas have gained as the leading VSAT platform for users seeking the most advanced technology and feature set. Read more

IEC Telecom Announces Availability of New Starlink Antenna to Meet Increased Connectivity Demands in the Yachting Sector

April 25, 2024 – Leading international satellite service operator IEC Telecom has expanded its connectivity solutions for the yachting sector with the addition of the new Starlink V4 antenna. IEC Telecom's Xpand Portfolio meets these connectivity demands. This hybrid satcom solution was designed to offer the best user experience over satellite, whether on a high-speed LEO network or a narrow-band L-band back-up, as well as geared to provide seamless LTE failover in coastal areas. Compatible with Starlink V4, Xpand unlocks new opportunities for yacht-owners. Read more

SES's O3b mPOWER System Starts Providing High-performance Connectivity Services

April 24, 2024 – SES announced today that O3b mPOWER, its second-generation software-enabled satellite system, is now operational and can provide high-performance connectivity services around the globe. With the first six O3b mPOWER satellites operating at medium Earth orbit (MEO) or 8,000km away from the Earth and with extensive ground infrastructure built around the world, SES will be introducing services in the coming months to O3b mPOWER customers to deliver reliable connectivity services ranging from tens of Mbps to multiple gigabits per second. To date, SES has launched six out of 13 O3b mPOWER high-throughput and low-latency satellites, which together with strategically located satellite ground stations, enable SES to serve customers across multiple market segments around the world. With the O3b mPOWER system now operational, SES strengthens its unique MEO network capabilities by complementing its O3b constellation. The launch of the next two O3b mPOWER satellites is expected in late 2024. Read more

Lynk Announces Sat2Phone Contract with U.S. Government

April 24, 2024 – Lynk Global, Inc. (Lynk), the world's leading satellite-direct-to-standard-phone service (sat2phone) provider, today announced that it has signed a contract with the Defense Information Systems Agency (DISA) to provide commercial sat2phone services to the U.S. Department of Defense (DoD), the Department of Homeland Security (DHS), and other U.S. government agencies. This contract enables DoD, DHS and other U.S. government agencies to commercially purchase sat2phone services for the next 5 years, and includes an option to extend the contract 5 more years. Services available under the contract include SMS text messaging, emergency cell broadcast alerts, and LynkCast weather & information broadcast services. Read more

mu Space and RBC Signals Sign MOU for Satellite Ground Station Facilities Project

April 23, 2024 – mu Space and Advance Technology Co., Ltd (mu Space), a leading satellite technology company based in Thailand, has entered into a Memorandum of Understanding (MOU) with RBC Signals International Inc. (RBC Signals), an innovative provider of global satellite data communication products and solutions. The MOU, effective from March 1, 2024, is the beginning of a collaboration aimed at exploring opportunities related to Satellite Ground Station Facilities in Thailand and Southeast Asia countries. The collaboration between mu Space and RBC Signals is based on the belief that their expertise will complement each other, leading to the successful completion of the project. The collaboration aims to identify further activities needed for the implementation of Satellite Ground Station Facilities in Thailand and Southeast Asia countries. Read more

uAvionix Partners with Viasat to Deliver Seamless Global Communication Service for Uncrewed Aerial Vehicles

April 23, 2024 – Viasat announced collaboration with uAvionix, a pioneer in the development of certified avionics for crewed and uncrewed aviation. uAvionix will join Viasat's Velaris Partner Network. Following a strategic alliance agreement between the companies to develop products and services for the uncrewed aerial vehicle (UAV) market, uAvionix has begun integrating Viasat's Velaris module into its compact muLTElink airborne radio system. Powered by Viasat's global L-band network, Velaris provides secure, resilient, L-band, communications for commercial UAVs. Velaris enables real-time monitoring for Beyond Visual Line of Sight (BVLOS) UAV operations, with seamless integration into commercial airspace. uAvionix's system combines C-band, LTE, ISM and Viasat L-band, and carefully monitors and manages each data link using a DO-377A Link Executive Manager (LEM) while automatically registering aircraft with uAvionix's SkyLine Cloud Managed BVLOS service. Read more

Thuraya Signs Agreement with CYSEC to Offer Satellite Encryption and Cybersecurity Solution

April 23, 2024 – Thuraya Telecommunications Company (Thuraya), the mobile satellite services subsidiary of the UAE's flagship satellite solutions provider, Al Yah Satellite Communications Company PJSC, has partnered with CYSEC to provide enhanced cybersecurity and encryption protection to its existing data service customers. The partnership was unveiled during the Satellite 2024 conference held in Washington D.C. and will be a game-changer for sectors that require safe, secure, and reliable data services protected from potential risk of loss. Under the agreement, Thuraya will now bundle CYSEC's ARCA SATCOM solution as part of its existing data services plan, thereby enhancing its offerings for customers that require the highest level of cyber protection. Thuraya has already certified the solution over its network, noting that it is also certified by the Federal Information Processing Standard (FIPS) authority in the USA. Read more

SKY Perfect JSAT to Invest in Seraphim Space Ventures II LP, a Venture Capital Fund Formed by U.K.'s Seraphim

April 22, 2024 – SKY Perfect JSAT Corporation announced its decision to invest as a finite liability union member (Limited Partner) in a Seraphim Space Ventures II formed by a Seraphim Space Manager LLP ("Seraphim Space") based in the United Kingdom. In March 2024, SKY Perfect JSAT

announced that it would invest in space-related startups and space-related venture funds by 2030 with an investment allowance of 10 billion yen. This decision will be leading the way of this initiative. Through this investment, we will strengthen collaboration with space startups in Europe, North America and Asia. By combining the knowledge and resources accumulated by SKY Perfect JSAT with the new technologies of startups, we aim to co-create new space businesses for a sustainable future. Since Seraphim Space was established in 2015, it has continued to invest approximately $300 million dollar in and support more than 100 space-related startups in total, making it one of the largest space technology investors in the world. Seraphim Space manages Seraphim Space Investment Trust PLC, a fund listed on the London Stock Exchange and is operated mainly by targeting start-up that are in the growing phase after Series-B. Read more

Dhruva Space Announces a Successful Closure of Series A Funding Round

April 22, 2024 – Dhruva Space, a full-stack Space Engineering solutions provider based in Hyderabad, India, announces a successful closure of their Series A funding at INR 123 Crores. The funding will go towards the company's upcoming spacecraft manufacturing facility, strategic business acquisition plans, and enhancing product offerings to deploy them to the global market. Dhruva Space's Series A round saw significant participation from Indian Angel Network Alpha Fund and Blue Ashva Capital, as well as Silverneedle Ventures, BIG Global Investment JSC (BITEXCO Group) IvyCap Ventures, Mumbai Angels, and Blume Founders Fund. Dhruva Space's Series A1 brought in INR 45.51 Crores while Series A2 brought in INR 78 Crores. Series A2 includes an INR 10 Crores venture debt from Small Industries Development Bank of India (SIDBI) and an INR 14 Crores venture debt from Technology Development Board. Read more

Intellian Launches New Iridium Certus C200M and C200L Terminals for Reliable Connectivity across Land and Sea

April 17, 2024 – Intellian Technologies, Inc., the leading global technology and solutions provider for satellite communications, today launches the C200M and C200L terminals for use on Iridium Certus® 200, the award-winning, multi-service platform. These global L-band solutions provide robust connectivity for land and maritime markets. The Iridium Certus 200 service has pole to pole coverage, and offers Iridium's unique capabilities in small, cost-effective terminals. It keeps you connected when and where it is needed most. The Iridium Connected® solutions designed for this service class are ideal for remote communications and fleet management, business continuity, and connected ship applications. Whether you are responding to an emergency, providing humanitarian aid after disasters, or need to stay connected with loved ones while at sea, Iridium Certus 200 keeps you connected when and where it is needed most. Read more

Kratos Demonstrates Fully Virtualized SATCOM Ground System for US Army Futures Command over SES's O3b MEO Constellation

April 17, 2024 – Kratos Defense & Security Solutions, Inc. and SES successfully executed a fully virtualized satellite communications (SATCOM) ground system demonstration for the U.S. Army's Combat Capabilities Development Command, both announced today. Kratos and SES successfully showed a flexible network architecture facilitating simultaneous communication pathways for resilient SATCOM. This virtualized and containerized architecture enables soldiers to position their radio frequency (RF) hardware and software-defined hubs anywhere globally. In an industry first, the demonstration showed seamless operation supporting satellites in Medium Earth Orbit (MEO) on a "make-before-break" mode over SES's O3b MEO satellite network. Make-before-break is an essential capability for MEO and LEO satellite constellations referring to the ability to transfer communication sessions while the user transverses the coverage areas of different satellites. Read more

Intellian Technologies and Marlink Celebrate 15 Years of Collaboration in Satellite Communications

April 16, 2024 – Intellian Technologies, a leading global provider of multi-constellation, satellite user terminals and communications solutions, celebrates 15 years of successful partnership with Marlink,

the smart network and digital solutions company. Since the initial engagement in 2009, Intellian and Marlink have consistently delivered cutting-edge network solutions, driven by a shared commitment to quality, innovation, and customer satisfaction. Intellian Technologies' extensive product portfolio, featuring multi-orbit, multi-band systems, perfectly complements Marlink's pioneering role in the satellite communications industry, globally providing fully managed end-to-end smart hybrid network and digital solutions across maritime, land, and military sectors. Read more

Comtech Partners with Eutelsat OneWeb to Deliver LEO Connectivity Services to Antarctica

April 15, 2024 – Comtech, a global technology leader, in partnership with Eutelsat OneWeb, GEO-LEO connectivity provider in satellite communications, announces trial services to deliver Low Earth Orbit (LEO) satellite connectivity services to multiple regions of Antarctica. Launched in January 2024, the service provides connectivity to customers in Antarctica. Through this trial, Comtech's market-leading ELEVATE VSAT ground system supported Eutelsat OneWeb's ability to deliver groundbreaking LEO connectivity services, with data rates reaching up to 120 Mbps, to one of the most challenging geographic regions in the world. Comtech worked with Eutelsat OneWeb to configure and install the company's ELEVATE ground system to simultaneously route robust and resilient connectivity services over multiple OneWeb LEO satellites. Read more

USSI Global Named ST Engineering IDirect's North American Broadcast Gold Partner

April 10, 2024 – USSI Global announced that it has achieved the ST Engineering iDirect 2024 North America Gold Partner Status for its broadcast division. USSI Global will manage sales, customer service and technical support for ST Engineering iDirect broadcast solutions in the United States and Canada, including the new MCX8000 multi-carrier satellite gateway. USSI Global will also support ST Engineering iDirect's business operations, including service agreement renewals. USSI Global and ST Engineering iDirect have a long standing partnership on broadcast and satellite initiatives including the FCC's C-band transition, now in the final stages of clearing spectrum for 5G mobile services. USSI Global installed ST Engineering iDirect modulators, redundancy switches and conversion equipment as part of their turnkey services for moving broadcasters to new C-band frequencies. Read more

Iridium Signs Five-Year Contract with L3Harris to Protect FAA Critical Infrastructure

April 9, 2024 – Iridium Communications Inc. announced a new five-year commercial contract with L3Harris Technologies for the Iridium® Satellite Time and Location (STL) service. Under the terms of the five-year agreement, Iridium will provide the STL service to more than three dozen L3Harris-operated communications network backbone nodes and a similar number of Federal Aviation Administration (FAA) facilities throughout the United States. L3Harris owns and operates a private nationwide network for the FAA, providing voice, data, and video communications for the National Airspace System operations and mission support functions. Timing synchronization is essential within the L3Harris communications network, especially since it supports several critical infrastructure applications. The Iridium STL service is a vital component of the overall network timing architecture that removes dependencies on GPS as a primary timing source. Read more

Hughes Awarded Production Contract by GA-ASI to Connect Gray Eagle UAS with Next Gen Satellite Communications

April 8, 2024 – Hughes Network Systems announced its it has been awarded a production contract from General Atomics Aeronautical Systems, Inc. (GA-ASI) to produce a key component of the next-generation satellite communications (SATCOM) system for the MQ-1C Gray Eagle 25M Unmanned Aircraft System (UAS). Under the contract, Hughes will provide advanced, ruggedized HM400 modems, named the HM400T, that integrate with the DoD's standard waveform technology and transmission security (TRANSEC) features to enable significantly increased endurance and resilience for Gray Eagle 25M's wide range of Airborne Intelligence, Surveillance and Reconnaisance (AISR) mission requirements, particularly for operations in contested environments. Read more

Kacific and Microsoft Partner to Reach 10 Million People in the Asia Pacific with Internet Access Initiative

April 8, 2024 – Kacific Broadband Satellites Group and Microsoft are collaborating to bring high-speed satellite internet access to 750 rural educational and healthcare institutions with a geographical coverage of 10 million across the Asia Pacific over the next two years using high-powered Ka-band beams from the Kacific1 satellite. The initiative will connect schools and healthcare centres across Papua New Guinea, the Philippines, Solomon Islands, Vanuatu, Cook Islands, Samoa, and Timor-Leste, which will, in turn, connect the communities around them. The project is part of Microsoft's Airband initiative, which brings together internet and energy providers, government agencies, non-profits and the private sector to focus on closing the digital divide. Read more

Euroconsult and SpaceTec Partners Merge to Form Novaspace – the Global Leading Consulting Firm in the Space Sector

April 5, 2024 – Two prominent space consulting players, Euroconsult and SpaceTec Partners, are merging after three years of increasingly successful collaboration, to shape the future of the space sector with unparalleled expertise and strategic insights. This merger creates Novaspace, a powerhouse in professional services dedicated to the space industry. Euroconsult, with its 40-year legacy in consulting, market intelligence, and executive summits, joins forces with SpaceTec Partners, which brings two decades of experience in management consulting, including strategy, innovation advisory, and market development. Novaspace provides comprehensive, integrated service offerings to meet the evolving needs of the global space sector, offering strategic and technical perspectives for decision-makers in both private and public entities. Read more

Kratos Demonstrates Fully Virtualized SATCOM over LEO for U.S. Army

April 4, 2024 – Kratos Defense & Security Solutions, Inc., a technology company in the defense, national security and global markets, announced today that it successfully demonstrated a fully virtualized satellite communications (SATCOM) ground system using Kratos' OpenSpace® Platform for the U.S. Army's Program Executive Office Command, Control, Communications-Tactical (PEO C3T). With demonstration partners Telesat Government Solutions and Cobham Satcom, the three companies showed dynamic support of simultaneous communication pathways for resilient SATCOM at Low Earth Orbit (LEO). Read more

ST Engineering and HTX extend Collaboration to Drive Innovation in Key Science and Technology Areas for Singapore's Homeland Security

April 4, 2024 – ST Engineering and HTX (Home Team Science and Technology Agency) today jointly announced the expansion of their strategic collaboration to drive innovation in critical science and technology areas vital to meeting the needs and challenges of the Home Team. The extended scope of the five-year agreement covers the co-creation of innovations and concepts for trials, identification of next generation capabilities, provision of operational support, talent development and operational training. Read more

Gilat Awarded over $3M Follow-On Order for Public WiFi Service in Latin America

April 4, 2024 – Gilat Satellite Networks Ltd. announced today the award of more than $3 million for a public WiFi solution in Latin America. This follow-on order significantly extends the number of sites in the program and highlights the importance of social inclusion projects aimed at bridging the digital divide. The public WiFi solution provided by Gilat is being extended by hundreds of sites and will play a crucial role in expanding internet access to thousands more people across rural areas where terrestrial infrastructure is limited or absent. Read more

Hughes Enables Worldwide LEO Connectivity with Eutelsat OneWeb Approval of New ESA

April 2, 2024 – Hughes Network Systems, LLC announced the commercial availability of the Hughes HL1120W Terminal. This electronically steerable antenna-based (ESA) terminal has received Eutelsat

OneWeb approval for operation in its low Earth orbit (LEO) satellite network and this milestone enables Hughes to bring Eutelsat OneWeb's enterprise-grade, low-latency, high-speed connectivity to customers across the globe. As an early pioneer in LEO technologies, Hughes developed the gateway and core modem module for all OneWeb terminals and is continuing its engineering leadership with this groundbreaking, flat panel ESA. Read more

Algérie Télécom Satellite Unveiled as Official Distributor in Algeria for New SKYPHONE by Thuraya

April 2, 2024 – Thuraya Telecommunications Company announced the expansion of its cooperation with Algérie Télécom Satellite, the authorised partner for Thuraya services in the People's Democratic Republic of Algeria. Accordingly, Algérie Télécom Satellite, will be responsible for distributing the new SKYPHONE by Thuraya smartphone through Mobile Network Operators (MNOs) and other authorised distributors in Algeria. SKYPHONE by Thuraya, which allows users to stay connected wherever they are by combining cellular and satellite communication capabilities, was revealed to the public for the first time by Thuraya during the Mobile World Congress 2024 in Barcelona. Read more

US Army Awards $12 Million Contract Extension to Gilat to Sustain Anytime, Anywhere Satellite Connectivity

April 2, 2024 – Gilat Satellite Networks Ltd. announced that the United States Army awarded a $12 million contract to its subsidiary DataPath, Inc., for the continuation of a program to sustain anytime, anywhere satellite connectivity. The contract is for the supply of Wavestream's Solid State Amplifier (SSPA) products. Wavestream SSPAs are ruggedized to withstand the harshest environments, enabling the Satellite Transportable Terminals (STTs) used in this program to deliver a "Communications-on-the-Pause" solution across diverse climates and conditions around the globe. This award demonstrates Gilat's ability to leverage the capabilities of its two US-based subsidiaries, Gilat Wavestream and DataPath, Inc. Read more

Kacific's CommsBox Takes Top Spot as Innovation of the Year at SIG 2024

April 2, 2024 – Kacific Broadband Satellites Group was recognised at the Satcoms Innovation Group (SIG) 2024 Awards with the Innovation of the Year Award for its CommsBox, an all-in-one portable Wi-Fi communications solution. This acknowledgement at SIG 2024 reinforces Kacific's ongoing leadership and innovative excellence in the satellite industry. Kacific was also the proud winner of the Cooperation of the Year Award in 2022. The CommsBox is the first of its kind and is a turnkey solution designed to meet the unique disaster response requirements in the Asia Pacific region. It provides first responders, organisations and government agencies with a communication solution that relies on satellite connectivity when local on-ground infrastructures are destroyed during natural disasters. Read more

Telesat and Government of Canada Agree to Terms on C$2.14 Billion Loan in Support of Telesat Lightspeed

April 1, 2024 – Telesat announced that on March 28, 2024, Telesat received a letter from Canada's Minister of Innovation, Science and Industry regarding an investment in Telesat Lightspeed. The letter states that, following several months of negotiations between Telesat and federal officials, the Government of Canada (GoC) is prepared to invest C$2.14 billion in Telesat Lightspeed by way of a loan to Telesat LEO Inc., a wholly owned subsidiary of Telesat, that is developing and will own and operate the highly advanced Telesat Lightspeed Low Earth Orbit (LEO) global broadband satellite constellation. The loan will carry a floating interest rate that is 4.75% above the Canadian Overnight Repo Rate Average (CORRA) with a 15-year maturity. Interest is payable in-kind during the Telesat Lightspeed construction period, followed by a 10-year sculpted amortization. Furthermore, Telesat LEO Inc. will provide the GoC with warrants for 10% of the common shares of Telesat LEO based upon an equity valuation for Telesat LEO of US$3 billion. Read more

BROADCAST

Gotonomi and Videosoft Partner to Simplify UAV Live Video Streaming
April 18, 2024 – Gotonomi, a UAV satellite connectivity platform provider, and Videosoft, developers of video streaming solutions, today announced a partnership that will simplify video live-streaming over satellite for UAV operators. By integrating Videosoft's low-bandwidth video software with Gotonomi's Velaris Multi-Link satellite communication module, the partnership will enable operators to effortlessly receive real-time video from UAVs, even in remote areas without cell or direct radio coverage. This new solution, which uses Viasat Velaris, a dedicated UAV connectivity service, will be particularly advantageous for BVLOS (Beyond Visual Line of Sight) operations as it will address scenarios where conventional communication methods fall short. Read more

La Gran Carpa Catedral Reaches New Audiences across Europe and MENA Thanks to Eutelsat Group Satellite Coverage
April 16, 2024 – Eutelsat Group announces a new multi-year partnership with Puerto Rico-based La Gran Carpa Catedral (LGCC), a non-profit institution, to provide satellite distribution services across the Middle East and North Africa (MENA), and Europe. This collaboration leverages the wide coverage of Eutelsat Group's EUTELSAT 8 West B satellite to deliver the LGCC TV channel to audiences across Europe and MENA. This new partnership highlights the continued relevance of satellite TV channels to extend their reach to new audiences globally. The EUTELSAT 8 West B satellite is located in MENA's leading video neighbourhood for satellite TV, giving the High-Definition channel access to over 60 million TV homes. Offering broadcasters, the largest exclusive reach in the region, audiences favour the 7/8° West video neighbourhood thanks to its unparalleled line-up of around 900 TV channels. Read more

Intelsat Signs Two Major Broadcast Managed Services Deals in Latin America
April 15, 2024 – Intelsat, operator of one of the world's largest integrated satellite and terrestrial networks and leading provider of in-flight connectivity (IFC), has signed agreements with two of the biggest names in broadcasting in Latin America, MVS Television (Mexico) and Caracol Television (Colombia) to manage broadcast distribution services. Under the agreement with MVS Television, the company will send content to several of Intelsat's Points of Presence (PoPs) where it enters the global media network for distribution. Intelsat then sends content through the IntelsatOne Fiber network to a teleport facility in Atlanta. The content is then uplinked to a video multiplexer platform on Intelsat 21 (IS-21) for distribution. In addition, disaster recovery uplink services are included in the network. Read more

LAUNCH / SPACE

Arianespace to Launch the First Four Second-Generation Satellites for Galileo on Ariane 6
April 29, 2024 – The European Commission and the European Union Agency for the Space Programme (EUSPA) will entrust Arianespace with the launch of four new satellites for the Galileo navigation constellation. This order brings to five the total number of launches scheduled on-board Ariane 6 for Europe's ultra-high performance Galileo satellite navigation system: the last three launches of pairs of first-generation satellites (L14-L15-L16) and the first two pairs of the second generation (L17-L18). These two additional launches are scheduled in 2026 and 2027 and will carry the first four second-generation Galileo satellites in pairs. Airbus Defence and Space and Thales Alenia Space are each building six satellites, which together will form the first second-generation fleet. The satellites, each weighing about 2,000 kg and equipped with electrical propulsion, will then reach the Galileo constellation's operational orbit (at an altitude of 23,222 km). Read more

Airbus Expands its Earth Observation Constellation with Pléiades Neo Next

April 29, 2024 – Airbus has launched the Pléiades Neo Next programme to expand its very high resolution Earth observation constellation. This new programme will result in new satellite assets and capabilities, including enhanced native resolution. As a first step of Pléiades Neo Next, Airbus is developing a new satellite which will be launched in the next few years. The Pléiades Neo Next programme is funded, manufactured, and operated by Airbus Defence and Space, with the full image capacity available for a wide range of sectors including defence and intelligence, agriculture, environment, maritime, disaster response, mapping, location-based services, civil engineering, urban planning and utilities. Read more

Astroscale Japan Selected for Phase II of JAXA's Commercial Removal of Debris Demonstration Program

April 25, 2024 – Astroscale Japan Inc., a subsidiary of Astroscale Holdings Inc., a market leader in satellite servicing and long-term orbital sustainability across all orbits, announces its selection by the Japan Aerospace Exploration Agency (JAXA) as the commercial partner for Phase II of JAXA's Commercial Removal of Debris Demonstration (CRD2) program, one of the world's first technology demonstrations of removing large-scale debris from orbit. The CRD2 program aims to remove an unprepared Japanese upper stage rocket body, thereby addressing the increasingly critical issue of space debris. Unprepared objects in orbit pose an additional challenge as they have not been prepared with any technologies that enable docking or potential servicing or removal. Read more

Azercosmos Expands its Cooperation with Uzbekistan

April 25, 2024 – Azercosmos has signed a cooperation agreement with Uzbekistan's Space Research and Technology Agency - Uzbekkosmos. The agreement signed within the framework of the meeting of the heads of space agencies of the Organization of Turkic States, held in Ankara, envisions the expansion of activities in the space sector between Azerbaijan and Uzbekistan. As part of bilateral cooperation, Azercosmos will implement a pilot project to preliminarily assess the degree of soil salinity in the territory of the Republic of Uzbekistan. In general, the majority (about 80-90%) of Uzbekistan's water resources, are used for agricultural needs. Satellite technologies are extensively used in this field for the assessment of drought-affected areas. Within the framework of the mentioned project, it will be possible to determine soil salinity levels based on Azercosmos' experience in satellite solutions and geographic information services. Additionally, there will be an exchange of experience between Azerbaijani and Uzbek specialists in this field. Read more

Rocket Lab Successfully Deploys Satellites ~500km Apart to Separate Orbits for KAIST and NASA

April 24, 2024 – Rocket Lab USA, Inc. today deployed two satellites to two different orbits approximately 500km apart on its 47th Electron mission. The 'Beginning Of The Swarm' (B.T.S) mission lifted-off from Rocket Lab Launch Complex 1 in Mahia, New Zealand at 10:32 NZST on April 24th, 2024 with payloads for the Korea Advanced Institute of Science and Technology (KAIST) and NASA. The primary payload, NEONSAT-1 by KAIST, was first deployed by Electron to a 520km circular Earth orbit before Electron deployed NASA's Advanced Composite Solar Sail System to a higher circular orbit at 1,000km. NEONSAT-1 will perform Earth-observation of the Korean Peninsula for KAIST, which will then pair the satellite's data with artificial intelligence to monitor for natural disasters in the region. NEONSAT-1 is the first of 11 satellites for KAIST's planned constellation to image the Korean Peninsula several times daily. Read more

CGWIC Successfully Launches SuperView Neo 3 - 01 Satellite by LM-2D Launch Vehicle

April 22, 2024 – At 12:12 April 15, 2024 BJT, SuperView Neo 3 - 01 Satellite was launched successfully from Jiuquan Satellite Launch Center (JSLC) aboard a Long March-2D (LM-2D) Launch Vehicle. China Great Wall Industry Corporation (CGWIC), a subsidiary of China Aerospace Science and Technology Corporation (CASC), provides the in-orbit delivery services of the SuperView Neo 3 - 01 Satellite to China Siwei Surveying and Mapping Technology Co., Ltd. (China Siwei) which is committed to the

development of application industry of remote sensing satellites. SuperView Neo 3 - 01 Satellite is developed by the Shanghai Academy of Spaceflight Technology (SAST), a subsidiary of CASC. The satellite can efficiently serve emerging markets such as digital agriculture, smart water conservancy and digital city, as well as land resources survey, urban management, environmental protection, disaster prevention and reduction, maritime security etc., providing users with time-sensitive and high-performance spatiotemporal information services. Read more

ST Engineering and EY Sign MOU in Space Technology and Geospatial Analytics for Sustainability Purposes

April 17, 2024 – ST Engineering's earth observation and geospatial analysis business, ST Engineering Geo-Insights Pte. Ltd. and EY Corporate Advisors Pte. Ltd. (EY) announced the signing of a memorandum of understanding (MOU) in space technology and geospatial analytics, aimed at tackling pressing environmental challenges. Under the MOU, both parties will explore using geospatial data to co-develop sustainability roadmaps and form a joint sustainability product development working group to focus on five key areas, namely deforestation; water management and quality; compliance with Taskforce on Nature-related Financial Disclosures or Task Force on Climate-Related Financial Disclosures requirements; carbon accounting; as well as baselining environmental impacts. Read more

Sidus Space Partners with Orbital Transports to Expand Market Reach

April 17, 2024 – Sidus Space, Inc. announced it has joined Orbital Transports Partner Program to expand the Company's market reach within the global space industry. The Orbital Transports Partner Program is a community of companies, suppliers, and subcontractors working together to solve space mission challenges for our Customer and Partner companies. The Orbital Transports SmallSat Catalog is an Internet web portal that provides partner companies with a new distribution channel and access to new markets by aggregating space products and services into a comprehensive marketplace. Sidus Space is offering technology integration services on our 100kg LizzieSat satellite bus platform on our confirmed launches. LizzieSat can also be contracted as a dedicated bus for one-off missions or at scale for full constellation deployment. Additionally, Sidus Space is offering our FeatherEdge high-performance edge computing platform to support on-orbit intelligent operations and in-situ A.I. applications. Read more

Exolaunch Signs with HawkEye360 to Provide Launch and Deployment Services for Multiple Satellite Missions

April 15, 2024 – Exolaunch, the global leader in launch mission management, integration, and satellite deployment services, today announced a multi-mission agreement for launch and deployment services with HawkEye 360, a prominent provider of next-generation geospatial intelligence solutions. This marks the first collaboration between the two companies, signifying an important milestone in advancing space-based technology and geospatial intelligence capabilities. The first launch under the agreement took place on Sunday, April 7 from Kennedy Space Center's Launch Complex 39A via SpaceX's Falcon 9 launch vehicle. Using Exolaunch's proprietary, flight-proven CarboNIX separation systems, the company successfully deployed three HawkEye 360 satellites on the SpaceX Bandwagon-1 mission. Developed by University of Toronto's Space Flight Laboratory, these satellites intend to increase coverage over high-traffic maritime corridors at mid-latitudes, including the Indo-Pacific region. Read more

Rocket Lab Selected by Space Systems Command to Build and Launch Spacecraft for Tactically Responsive Space (TacRS) Mission

April 11, 2024. - Rocket Lab announced that it has been selected for a $32M U.S. Space Force Space Systems Command (SSC) contract to deliver the VICTUS HAZE Tactically Responsive Space (TacRS) mission. The mission will see Rocket Lab design, build, launch, and operate a rendezvous proximity operation (RPO) capable spacecraft. The mission was contracted under Rocket Lab National Security,

a wholly owned subsidiary that serves the U.S. and its allies with responsive and reliable launch services, spacecraft manufacturing, and space systems capabilities. SSC's Space Safari's VICTUS HAZE mission will be an exercise of a realistic threat-response scenario and on-orbit space domain awareness (SDA) demonstration. Rocket Lab and a second performer, True Anomaly, will both demonstrate the ability to build rendezvous and proximity operation (RPO) capable space vehicles and command and control centers. The mission is targeted for launch in 2025. Read more

Astroscale's ADRAS-J Completes Successful Rendezvous and Initiates Proximity Approach

April 11, 2024 – Astroscale Japan Inc., a subsidiary of Astroscale Holdings Inc. ("Astroscale"), the market leader in satellite servicing and long-term orbital sustainability across all orbits, announced that its commercial debris inspection demonstration satellite, Active Debris Removal by Astroscale-Japan (ADRAS-J), has achieved a major technical milestone: completion of the rendezvous phase of its mission and the beginning of proximity approach. This success is underscored by starting Angles-Only Navigation, a navigation method to estimate relative position and velocity through the servicer's on-board cameras. Read more

NASA, Japan Advance Space Cooperation, Sign Agreement for Lunar Rover

April 10, 2024 – NASA Administrator Bill Nelson and Japan's Minister of Education, Culture, Sports, Science and Technology (MEXT) Masahito Moriyama have signed an agreement to advance sustainable human exploration of the Moon. Japan will design, develop, and operate a pressurized rover for crewed and uncrewed exploration on the Moon. NASA will provide the launch and delivery of the rover to the Moon as well as two opportunities for Japanese astronauts to travel to the lunar surface. The pressurized lunar rover is intended to enable astronauts to travel farther and work for longer periods on the lunar surface. The signing took place April 9 at NASA Headquarters in Washington. Along with Nelson and Moriyama, JAXA (Japan Aerospace Exploration Agency) President Hiroshi Yamakawa also participated in the signing. Read more

Sidus Space Announces Second Agreement with HEO for Non-Earth Imaging Payload and Data Services Aboard Upcoming LizzieSat Launch

April 10, 2024 – idus Space, Inc., a multi-faceted Space and Data-as-a-Service satellite company, announced today at the Space Symposium in Colorado Springs that it has finalized an additional agreement with HEO, a leading provider of non-Earth imaging ("NEI") and data, for NEI payload and data services. Under the agreement, Sidus Space will host HEO's NEI imager, HOLMES-006, onboard LizzieSat-3, as part of the Bandwagon-2 launch scheduled for November 2024, along with a monthly data services contract. This marks the second agreement between HEO and Sidus Space, as Sidus Space's LizzieSat-2 will be hosting HEO's HOLMES-004 on the same launch. Read more

Thales Alenia Space Signed Contract with the ESA to Continue Work to Take a European Rover to Search for Traces of life on Mars

April 9, 2024 – Thales Alenia Space has signed a framework contract divided into different tranches with the European Space Agency (ESA), worth a total of €522m, to continue essential activities for the completion of the ExoMars 2028 mission. The contract includes the development of the Mars Entry, Descent and Landing Module (EDLM) and maintenance activities on vehicles already built for the 2022 mission. The upcoming ExoMars mission, set for launch from the Kennedy Space Center between October and December 2028, will explore the Martian surface in search of signs of past life, a quest that has long fascinated humanity. Read more

Tata Advanced Systems Limited and Satellogic Announce TSAT-1A Satellite Launch Success

April 8, 2024 – Tata Advanced Systems Limited (TASL), India's leading private sector player for aerospace and defense solutions, and Satellogic Inc., a leader in sub-meter resolution Earth Observation (EO) data collection, today announced the successful deployment into space of TASL's TSAT-1A satellite aboard the Bandwagon-1 mission, which SpaceX's Falcon 9 rocket launched from

Launch Complex 39A at Kennedy Space Center, Florida, USA, at 23:16 UTC on April 7, 2024. TSAT-1A has been assembled in TASL's Assembly, Integration and Testing ("AIT") plant at its Vemagal facility in Karnataka. This achievement follows the collaboration signed between TASL and Satellogic in November 2023, leveraging Satellogic's expertise to develop and integrate an advanced EO satellite in India and TASL's capability to undertake complex system integration. Read more

U.S. Space Force Awards Rocket Lab Launch Contract for Space Test Program (STP)-S30

April 8, 2024 – Rocket Lab USA, Inc. announced it has been awarded a $14.49 million task order by the U.S. Space Force (USSF) to launch an Electron mission from Launch Complex 2. The mission, called Space Test Program-30 (STP-S30) falls under the Space Systems Command (SSC) Assured Access to Space organization and is part of Orbital Services Program-4 (OSP-4). The dedicated Electron launch is scheduled to take place within 24 months from contract award and will lift off from Launch Complex 2, a dedicated pad for the Electron rocket at Virginia Spaceport Authority's Mid-Atlantic Regional Spaceport within the NASA Wallops Flight Facility on Virginia's Eastern Shore. STP-S30 is a complex mission that will deliver research experiments and technology demonstrations to orbit for the DoD and contribute to future space systems development. The projected primary payload, DISKSat, will demonstrate sustained very low earth orbit (VLEO) flight and test a unique, 1-meter diameter, disk-shaped satellite bus that is designed to increase on-orbit persistence. Read more

Terran Orbital's Tyvak International Secures European Defense Agency Contract for Pioneering VLEO Satellite Project

April 2, 2024 – Tyvak International SRL, a Torino, Italy-based subsidiary of Terran Orbital Corporation and a leading European provider of nano and microsatellites, today announced a secured service subcontract for the European Defense Agency's (EDA) Hub for EU Defense Innovation (HEDI) proof-of-concept prototype 2023. This groundbreaking project focuses on Very Low Earth Orbit (VLEO) satellite exploration, marking a significant leap forward in military space technology. The contract encompasses Phase A of the LEO to VLEO spacecraft, culminating in a Preliminary Design Review. Tyvak International will play a leading role within a consortium including prime contractor CNIT, collaborating with FlySight and Politecnico di Milano. Read more

EXECUTIVE MOVES

Kevin Steen Appointed as President and CEO of Combined Eutelsat America Corp. and OneWeb Technologies

April 29, 2024 – Eutelsat Group announced today that Kevin Steen has been appointed by the Eutelsat America Corp. (EAC) Board of Directors to the position of President and CEO of EAC. He will also continue his existing role as President and CEO of OneWeb Technologies (OWT). EAC and OWT completed their combination earlier this year and will go to market as a single EAC entity. EAC is a subsidiary of Eutelsat Group, delivering communication services and solutions to US Government and Military customers around the globe in support of national security missions. Prior to his appointment as President and CEO of EAC, Kevin served as the CEO of OWT since 2022 and the CEO of iDirect from 2017 until 2022. Read more

Interstellar Appoints Specialist Engaged in Development of Japan's Flagship Rockets, as Senior Technical Advisor

April 24, 2025 – Interstellar Technologies Inc., a comprehensive space infrastructure company committed to tackling global challenges through space transportation and utilization, proudly announces the enlistment of Takashi Maemura, previously engaged in the development and launch of Japan's flagship rockets such as H-IIA at Mitsubishi Heavy Industries Ltd., as its senior technical advisor. Read more

Exostar Names Dr. Rick Simpson as CFO
April 17, 2024 – Exostar, a leader in trusted, secure business collaboration solutions for highly regulated industries including aerospace and defense, life sciences, and healthcare, today announced the hiring of Dr. Rick Simpson as Chief Finance Officer. The move comes as the company anticipates building on its record-setting success in the aftermath of its acquisition by private equity firm Arlington Capital Partners. Read more

ABS Announces Appointment of Mark Rigolle as its CEO
April 16, 2024 – ABS, a global satellite operator, is pleased to announce the appointment of Mark Rigolle as its new Chief Executive Officer (CEO), effective 29 April 2024. Mark brings a wealth of experience in the satellite communications sector, having held positions with GEO, MEO and LEO satellite operators in various capacities including executive, non-executive, advisor, and co-founder. He has been associated with satellite and space development projects in Asia, the Middle East and Europe. Mark will be based in ABS' office in Dubai, UAE. Mark has previously served as CFO of SES and CEO of O3b Networks and was a co-founder of Kacific before becoming the CEO of LeoSat and later KLEO Connect. Most recently he was the COO of Rivada Space Networks. Mark holds a master's degree in economics from the University of Leuven, Belgium and is fluent in English, French and Dutch. Read more

Skydweller Aero Appoints Barry A. Matsumori as New President and Chief Operating Officer
April 16, 2024 – Skydweller Aero, Inc., a pioneering transatlantic aerospace company developing and manufacturing a fleet of large solar powered aircraft for defense and commercial missions, today announced the appointment of Barry A. Matsumori, a former senior executive at both SpaceX and Impulse Space, as Skydweller's President and Chief Operating Officer. Skydwellers are uncrewed solar-powered aircraft with wingspans greater than a 747 that leave zero carbon footprint. Skydwellers are autonomous and capable of perpetual flight, staying aloft for 90 days or more, at altitudes of up to 45,000 feet. Read more

REPORTS

Non-geostationary Orbit Constellations Redefining the HTS Market Landscape
April 25, 2024 – Novaspace's *'High Throughput Satellites'* report reveals that to date, approximately three quarters of the 50+ active satellite operators have invested in HTS systems. The vast majority of HTS players have satellites in GEO orbit. Despite the NGSO potential, high capital expenditure (CapEx) requirements remain a significant barrier for most players, with investments typically between $2-4 billion and exceeding $10 billion for a mega-constellation. As a result, only a select few of the 'leading' satellite operators are pursuing plans for full NGSO constellations, with three expected to be operational during 2024. This includes SpaceX's Starlink, Eutelsat OneWeb and O3b mPOWER from SES. Read more

Software Defined Satellites Create New Space Market Opportunities
April 15, 2024 – Novaspace, a merger between Euroconsult and SpaceTec Partners, presents its latest report highlighting new opportunities by leveraging flexible satellites and software-defined satellites. Such satellites can be reconfigured while in orbit, enabling them to adapt to changing demands without necessitating costly replacements. Software-defined satellites represent a promising avenue for enhancing adaptability and addressing specific consumer needs; however, the extent of their implementation will vary depending on the unique requirements of different consumers. Satellite operators will need to focus on the specific capabilities of the consumer to determine if SDS presents a viable and sustainable solution. Read more

NSR Releases Satellite Capacity Pricing Index
April 9, 2024 – NSR Released *Satellite Capacity Pricing Index, 10th Edition*. This report provides a Satellite Capacity Pricing Index for 1Q 2024 and a forecast for 1Q 2025 covering different regions, verticals and frequency bands. The report also provides analysis of the drivers of price declines or increases. Read more

UPCOMING EVENTS

CABSAT 2024, May 21-23, Dubai, UAE, www.cabsat.com

Satellite Industry Forum, May 28, Singapore, https://www.aviasif.com/
Looks like 2024 is going to be an exciting year for the satellite industry! Will the NSGOs take over from the geostationary players – or is that just a perception based on hyperbole and press releases? Is satellite-to-device the next "big deal" – but will we ever get much more than just messaging and low speed data? And those tens of thousands of satellites. . . with all the debris and junk. Looks like the world is waking up to the problem big time! Are software defined satellites living up to their claims and expectations – and to what extent is inflation and supply chain problems affecting the economics? And is linear TV finally on its last legs? How do all these questions link up?

All this and much more, at the Satellite Industry Forum in Singapore on 28th May. Join us for a full day of riveting discussions with key industry leaders where we will explore all facets of the satellite business in Asia.

15% off discount code for APSCC members and subscribers

Asia Tech x Singapore, May 29-31, Singapore, https://asiatechxsg.com/

CommunicAsia2024, May 29-31, Singapore, https://asiatechxsg.com/communicasia/

Asia Satellite Business Week 2024, May 30, Singapore
https://asiatechxsingapore.informatech.com/2024/registrations/ASBW

ASBW stands as the premier hub of satellite technology in Asia, offering an unparalleled opportunity to foster strategic partnerships and explore the latest innovations in the field. This event will be held at Singapore Expo, anchoring Asia Tech x Singapore (ATxSG), the region's flagship technology gathering.

Join over 200 global space and satellite leaders as ASBW unfolds, sharing industry insights, networking opportunities, and partnership prospects. With more than 30 esteemed speakers delving into the hottest topics in APAC's space and satellite industry from partnerships with commercial space industry, universal connectivity, to APAC space agencies' strategy, Maritime Satellite Service, NGSO Expansion in the region, ground segment and Satellite-direct-to-phone — you will gain invaluable insights and connect with some of the most influential figures in the satellite industry. Check the full program, here.

Here is the registration link which includes the 30% discount code:
https://asiatechxsingapore.informatech.com/2024/registrations/ASBW?_mc=APSCC30

Australasia Satellite Forum 2024, June 3-4, Sydney, Australia,
https://www.talksatellite.com/EVENTS.htm

APSAT 2024, June 4-5, Jakarta, Indonesia, https://apsat.assi.or.id/

India Space Congress 2024, June 26-28, New Delhi, India, https://www.indiaspacecongress.com/

New Horizons in Air and Space Law: Treaties, Technologies, and Tomorrow's Challenges
August 1-2, Singapore, https://law.nus.edu.sg/trail/airspacelaw-mcgill-iasl-home/

SmallSat 2024, August 3-8, Logan, UT, USA, https://smallsat.org/

PTC'DC
5-6 September, Washington D.C., USA,
https://www.ptc.org/ptcdc?utm_source=partner&utm_medium=banner&utm_id=apscc

PTC'DC is PTC's new mid-year conference – bringing together government officials, regulators, private equity firms, policy makers, senior industry leaders, and PTC Members in an exclusive environment. Join PTC for insightful discussions, presentations, and vital dialogue on the future of digital infrastructure.

IBC 2024, September 13-16, Amsterdam, Netherlands, https://show.ibc.org/

World Satellite Business Week 2024, September 16-20, Paris, France, https://wsbw.com/

IAC 2024, October 14-18, Milan, Italy, https://www.iafastro.org/events/iac/international-astronautical-congress-2024/

APSCC 2024 Satellite Conference & Exhibition (APSCC 2024), November 5-7, Bangkok, Thailand, https://apsccsat.com/

EDITORIALS AND INQUIRIES
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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.apscc.or.kr.