

# APSCC Monthly e-Newsletter

## November 2023

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](http://www.apsc.or.kr). To unsubscribe, send an email to [info@apsc.or.kr](mailto:info@apsc.or.kr) with a title "Unsubscribe."

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

### INSIDE APSCC

#### **The APSCC 2023 Conference & Exhibition Marks Great Success!**

The APSCC 2023 Satellite Conference & Exhibition successfully ended on October 12 in Kuala Lumpur, Malaysia after 3 days of in-depth conference sessions and diverse networking events with more than 500 delegates attending the event. At APSCC 2023, industry leaders covered major issues impacting the Asia-Pacific satellite industry, including market insight on the latest trends, new applications, and innovative technical solutions throughout the three-day discussions and presentation sessions.

#### **The 2023 APSCC Awards**

As a collective voice representing the satellite industry of the Asia Pacific region, APSCC has made considerable effort to bring the various entities in the satellite community together for communication and cooperation. Each year APSCC recognizes outstanding organizations and individuals through the APSCC Awards to honor them for their collaboration, guidance and support in helping APSCC reach its mission as well as for their contribution to the satellite industry. The Awards recipients this year were acknowledged for their innovations and achievements in the satellite industry, as well as their leadership in developing and expediting the distribution of new services via satellite in the Asia-Pacific region. At the 2023 Awards Ceremony on October 10, APSCC awarded 'Satellite Executive of the Year in Asia-Pacific Award' to Patompob (Nile) Suwansiri, CEO of Thaicom for achievements and contributions to the satellite industry in the Asia-Pacific Region, and by taking the lead to enhance the satellite industry. Also APSCC named Azlikamil Napiah, Director General of Malaysian Space Agency (MYSA) as 'Lifetime Achievement Award' for his outstanding achievements. The 2023 APSCC Awards winners were selected by the APSCC Awards Selection Committee based on nominations submitted by the members of APSCC.

#### **The APSCC-ISU Youth Development Workshop**

The 2023 APSCC-ISU Youth Development Workshop was successfully held on October 12 in Kuala Lumpur, concurrently with the APSCC 2023. The workshop provided a platform for the brightest up-and-coming engineering students and young professionals in Malaysia to connect with leading satellite and space industry experts and learn more about the opportunities in the sector. The 2023 APSCC-ISU Youth Development provided the students with a deeper understanding of the industry through lectures and case studies.

#### **The 2023 APSCC Young Talent Awards**

APSCC Young Talent Awards the latest initiative of APSCC to ensure a healthy future for the satellite industry by attracting and retaining young talent to the satellite and space industries in the Asia-Pacific region. The APSCC Young Talent Awards aims to recognize outstanding individuals, 35 and under, working in the industry in the Asia Pacific region and to incentivize these young leaders. At the 2023 Young Talent Award ceremony on October 12, Nia Asmady, Satellite Project Management Manager, Pasifik Satelit Nusantara, was crowned the winner.

### **Panasonic Avionics Contracts Gbps-class IFC Capacity with SKY Perfect JSAT Superbird-9 Satellite**

October 31, 2023 - SKY Perfect JSAT announced today the execution of a multi-year agreement with Panasonic Avionics, the world's leading supplier of in-flight entertainment and communication systems, to provide Gbps-class Ku-band capacity on Superbird-9, a software-defined high throughput satellite. This milestone agreement will contribute to Panasonic Avionics' strategic expansion plans to deliver higher-speed internet connections and enhance in-flight experiences for airline passengers over Japan. Superbird-9 is a next-generation satellite which will have the largest capacity in the history of SKY Perfect JSAT satellites. Based on Airbus' OneSat satellite system and its fully digital, highly flexible payload, Superbird-9 will be capable of reconfiguring its service area, capacity and frequency while in orbit to meet the demands of the evolving market, for example, by effectively allocating capacity between congested and non-congested areas in response to the needs of aeronautical customers. Service on Superbird-9 is scheduled to start in the first half of 2027. By securing this pre-launch commitment, SKY Perfect JSAT is poised to offer the high-capacity service on Superbird-9 at the earliest possible timing. Until then, capacity for Panasonic Avionics will be increased in phases, with other satellites.

### **INTEGRASYS and Gilat Strategic Alliance to Advance Smart Solutions Compatibility**

October 31, 2023 – INTEGRASYS, a leading provider of advanced technology solutions, is pleased to announce the successful technical integration and compatibility of its Satmotion Pocket product with Gilat modems and SkyEdge II-c VSAT platform, marking a significant milestone in a strategic partnership. This collaboration is geared towards enhancing the development and technical capabilities of smart solutions, benefiting shared customers such as SES, Intelsat, Telespazio, AXESS, and many others. The integration of INTEGRASYS's cutting-edge products with Gilat hubs and modems is driven by a shared commitment to meet the evolving needs of common customers across various industries. This compatibility opens up new possibilities for seamless and efficient operations, enabling customers to leverage the strengths of both companies for enhanced performance and productivity, with smart automated solutions. Key highlights of this technical partnership include enhanced smart solutions resulting from the technical compatibility between INTEGRASYS's products and Gilat's SkyEdge II-c platform. This compatibility empowers common customers to optimize their operations, improve communication efficiency, and maintain a competitive edge. These common customers will benefit from a wider range of integrated solutions tailored to their specific needs, ensuring a seamless and reliable experience throughout the deployment and maintenance of multi-orbit networks.

### **mu Space Plans to Launch a Space Supply Chain in Southeast Asia**

October 30, 2023 – mu Space, a satellite manufacturer from Southeast Asia is looking to create a space supply chain for its region. The company's goal is to launch Southeast Asia into a global competitor in the aerospace industry. mu Space believes that by building a space supply chain, companies will have a greater chance in utilizing technologies and furthermore innovating them for the future. Accessibility is a major asset in business, and we believe that this next step will make the final frontier more accessible to Southeast Asian companies and communities. Additionally this opportunity also helps create jobs for people in the region. A Space Supply Chain is a network of individuals and organizations that work together to produce and sell a product. From top to bottom, all aspects of manufacturing and commercializing are part of a supply chain. mu Space is building a space supply chain in its region in order to better the space economy with plans announced in a press conference earlier this year. A Space Supply Chain would be a significant upgrade for the Southeast Asian region, in terms of job creation, growth of economy and investment in higher level education. A space supply chain will help lower the cost of production, thus ultimately allowing organizations to sell their products at the optimal price.

### **Thaicom Showcases Satellite & Space Technology and Announces Collaboration with Strategic Partners to Promote Thailand's Sustainability**

October 27, 2023 – Thaicom Public Company Limited has partnered with the Geo-Informatics and Space Technology Development Agency or GISTDA to host the Thailand Space Week 2023, the international event to showcase Thailand's potential and business opportunities in the space industry with the theme "Fostering Global Value Chain". This event was held on October 25-27, 2023 at the Queen Sirikit National Convention Center, Bangkok, Thailand. As the leading satellite operator and regional space technology company, Thaicom unveiled the new generation of software-defined high throughput satellites or SD-HTS, that can adjust coverage area, capacity, and frequency to meet the needs of customers in a variety of sectors, such as broadband connectivity in underserved areas, maritime broadband platform, distance learning, and telemedicine. Thaicom also introduced its space technology platforms utilized from space-based data analyzed with Artificial Intelligence (AI) and Machine Learning (ML) to encourage the development of the country, including agriculture, tourism, disaster prevention and mitigation, and natural resource and environmental conservation.

### **Successful Entry into Service of the EUTELSAT KONNECT VHTS Satellite**

October 26, 2023 – Eutelsat Communications announces today the successful entry into service of its state-of-the-art EUTELSAT KONNECT VHTS Very High Throughput Satellite, at the 2.7°E orbital position. EUTELSAT KONNECT VHTS, a very high throughput satellite built by Thales Alenia Space, will provide fixed, mobile and government connectivity across Europe, North Africa and the Middle East. Delivering 230 beams and with a Ka-band capacity of 500 Gbps, EUTELSAT KONNECT VHTS is the largest geostationary satellite to date in Europe. It embarks the most powerful on-board digital processor ever put in orbit, offering capacity allocation flexibility, optimal spectrum use, and progressive ground network deployment. This state-of-the-art satellite, with capacity seven times that of the previous generation EUTELSAT KONNECT, enters service with several major committed customers, namely Orange – via its Nordnet affiliate for the French coverage, Telecom Italia Mobile over Italy, and Thales Alenia Space to serve notably government connectivity services. Totaling c.€450m, these commitments underpin Eutelsat Group's revenue growth objectives in the coming years.

### **Verocel to Design and Build Next Generation Safety Computer for GMV's Central Processing Facility on SouthPAN**

October 25, 2023 – Verocel Inc. has signed an agreement with GMV, to develop the safety computer platform for the Southern Positioning Augmentation Network system, known as SouthPAN. The development and operation of this program, commissioned by Geoscience Australia and Toitū Te Whenua Land Information New Zealand, is being undertaken by a consortium spearheaded by Lockheed Martin Australia. Verocel was selected by GMV to design, construct and develop the SouthPAN safety computers which includes the chassis, infrastructure software, custom and the commercial off-the-shelf hardware. Verocel has teamed with Curtiss-Wright Controls, Defense Systems Group, and Atrenne Computing Solutions to provide components that comprise the hardware platform for the SouthPAN safety computer. The SouthPAN SBAS and precise positioning systems augment generic satellite-based navigation capabilities and have applications in industries as diverse as airborne navigation, agriculture and road, maritime, and rail transportation, as well as in the field of geomatics. SouthPAN will accelerate the development of applications in all of these areas. Most importantly, SouthPAN will be the first SBAS in the southern hemisphere while also delivering precise positioning services with accuracy improved from 5-10 meters to as little as 10 centimeters.

### **TESAT Successfully Completes Optical Communication Terminal Interoperability Tests**

October 26, 2023 – TESAT's Optical Communication Terminals successfully passed interoperability testing for the Space Development Agency's (SDA) Tranche 1 Transport Layer satellites to be built by Lockheed Martin. TESAT was selected to deliver optical communications terminals (OCT) to Lockheed Martin for integration on the company's 42 SDA Tranche 1 Transport Layer satellites. TESAT's OCTs

will also be applied for commercial constellations, like e.g. Keplers ÆTHER™ LEO constellation network. As part of the ground test, the OCTs successfully established a consistent data communication link first with a reference modem and second with a optical terminal made by another supplier. This achievement demonstrates that TESAT terminals comply with the technical specifications and standards issued by SDA and are interoperable with third-party products. The OCT is part of TESAT's laser communication portfolio and specifically designed to operate in LEO broadband constellations. It is compliant to the SDA standard v3. As of today, 46 OCTs are already in orbit, 12 more terminals were delivered to customers and 180 terminals are currently in production. In view of future growth in the field of optical communication, TESAT has a new manufacturing building under final construction in Merritt Island, Florida, providing 2,200m<sup>2</sup> of additional cleanroom capacity.

### **INTEGRASYS Announces Collaboration with Ukrainian Embassy to Donate Essential Equipment and Smart Solutions to Aid Ukraine**

October 24, 2023 – INTEGRASYS announced its collaboration with the Ukrainian MoD to extend support to Ukraine. As part of this initiative, INTEGRASYS will donate crucial equipment and smart solutions aimed at bolstering the country's capabilities and demonstrating unwavering commitment during these difficult times of war. The donation includes a range of advanced solutions that will empower Ukraine in various aspects of its operations. These solutions are geared towards enhancing strategic and tactical capabilities, enabling seamless communication in congested and contested electronic environments, and providing essential tools for the country's ongoing efforts to defend from invasion by enabling to communicate and obtain spectrum superiority. Key highlights of the equipment and solutions being donated by INTEGRASYS include CCS Software: INTEGRASYS will provide Cutting-Edge Counter Communications System (CCS) software, designed to deny communications to adversaries in a tactical, dynamic and effective manner. This software offers an intuitive interface, making it user-friendly and easy to adopt for Ukraine's various needs. Anti-jamming Capabilities (CleanRF): INTEGRASYS brings anti-jamming capabilities through CleanRF technology, safeguarding critical communication channels from interference and ensuring uninterrupted connectivity. In addition to these contributions, INTEGRASYS will also donate hardware from industry partners Intel and National Instruments. This hardware will further augment Ukraine's capabilities and technological resources to achieve the mission without compromises.

### **ABS Launches New Brand to Underpin Next Phase of Strategy and Growth**

October 23, 2023 - ABS, a leading global satellite operator, is unveiling a dynamic new brand identity that reflects a transformative new phase of the company. With new ownership and new management in place since last year, and an ambitious strategic vision, "ABS – Agility Beyond Space" is poised to elevate its role on the global stage within the satellite industry. Embracing a new era with new priorities, ABS – Agility Beyond Space is determined to go beyond its reputation as a reliable partner, offering diversified space and ground solutions and services to various key verticals such as telecom/MNO, maritime, energy, mining, enterprise, government & defense and broadcast. ABS is evolving its focus towards building strategic, long-term relationships, offering innovative and flexible business models tailored to the unique needs of its customers and partners.

### **Intellian and Inmarsat Sign Agreement for Development of Next Generation Maritime Safety Terminal**

October 23, 2023 – Intellian Technologies, Inc., the leading global technology and solutions provider for satellite communications and Inmarsat Maritime, a Viasat business, have today signed a Memorandum of Understanding (MOU) for the development of a next generation GMDSS safety terminal, designed for operation over Inmarsat's ELERA L-band network. The new safety terminals will become the standard Inmarsat Maritime product for the next generation Fleet Safety service and will fulfil the requirements and performance standards of the International Maritime Organization (IMO), as part of a range of maritime SOLAS approved ship borne equipment including Global

Maritime Distress and Safety System (GMDSS), Long-Range Identification and Tracking (LRIT) system and Ship Security Alert System (SSAS). Intellian's GMDSS terminal will help to significantly enhance the safety of lives for the 1.9 million seafarers at sea around the world, and will be one the most technological advancements in safety services since the introduction of Inmarsat-C in 1991. The new safety terminal will allow a digital era of safety services to improve both preventative and reactive communications.

### **Thuraya and YahClick Partner with Gate for Technologies to Boost Satellite-enabled Connectivity in South Sudan**

October 23, 2023 – Al Yah Satellite Communications Company PJSC, the UAE's flagship satellite solutions provider announced that its mobility arm, Thuraya Telecommunications Company, and its satellite broadband solutions provider, YahClick have signed a new service partnership to launch their mobility and data services in South Sudan in cooperation with the South Sudanese start-up Gate for Technologies (G4T). Through this partnership, Thuraya and YahClick will provide several high-growth sectors in South Sudan with satellite-enabled connectivity solutions designed to serve specific requirements, constituting a significant step forward in the national efforts to re-build the Africa country. Under the agreement, Thuraya's satellite technology will connect remote communities and support the government in its efforts to develop the nation's telecommunications infrastructure and enable e-government services. Yahsat will also collaborate with humanitarian agencies based in the country by providing them with the essential connectivity to support underserved areas.

### **Constellation Connects to 5G, Paving the Way for High-speed Internet Access to Remote Mobile Phone Users**

October 19, 2023 – Eutelsat OneWeb, part of the Eutelsat Group, the satellite communications company, confirmed today that its low Earth orbit (LEO) satellite constellation has successfully connected to a 5G mobile network, supporting 5G QoS levels for the first time. This milestone brings super-fast mobile phone connectivity to remote and rural areas one step closer. The achievement of successful 5G tests can be attributed to the Sunrise Programme, a partnership supported by the European Space Agency. This initiative aims to unite the industry around large-scale programmes, fostering significant advancements and driving economic growth. Through the demonstration, the University of Surrey tested a 5G mobile network by connecting Surrey's 5G core to a cell site through the LEO constellation, which consists of over 600 satellites in orbit and is the second-largest constellation globally. Over the constellation-assisted connection, researchers tested video conferencing calls, video streaming, gaming, virtual and augmented reality content, and simple web browsing. With a LEO constellation, the service can deliver low-latency connectivity coupled with high speeds to enable these applications. Tests also highlighted a seamless, smooth handover between the LEO network and terrestrial networks, delivering a smooth 5G connectivity experience to users.

### **Kratos Awarded \$16 Million+ Contract for Avionics Trainers for the Australian Defence Force (ADF)**

October 19, 2023 – Kratos Defense & Security Solutions, Inc., a Technology Company in the Defense, National Security and Global Markets, announced today that it was awarded a contract for three aviation trainers, one Kratos UH-60M Black Hawk Avionics Trainer (BHAT) and two Kratos UH-60M Maintenance Blended Reconfigurable Aviation Trainers (MBRAT). The contract, valued at \$16,917,796, is a Foreign Military Sales award issued by the United States Army's Program Executive Office (PEO) Aviation Utility Project Office. The end customer is the Australian Defence Force (ADF) Rotary Wing Aircraft Maintenance School (RAMS) located at the Army Aviation Centre, Swartz Barracks, Oakey, Queensland Australia. The three UH-60M avionics trainers will become part of the ADF's new UH-60M maintenance training capability and complement the existing Kratos CH-47F avionics trainer at RAMS. The devices can enhance operational readiness and enable cost effectiveness by allowing students to grasp concepts and practice skills more quickly, reducing the overall time spent on training and away from operating units. The UH-60M MBRAT is a full-task

trainer of all avionics systems that invokes a virtual immersive environment and spatial physical awareness. The UH-60M BHAT is a High-Fidelity Hands On Training System (HOTS) that provides full task training through simulation of all avionics systems in a fully integrated configuration within a complete immersive physical environment.

#### **Astroscale France Selects Toulouse as On-Orbit Servicing Technical Hub**

October 19, 2023 – Astroscale France SAS, a subsidiary of Astroscale Holdings Inc, the market leader in satellite servicing and long-term orbital sustainability across all orbits, announces Toulouse as its permanent location to develop innovative on-orbit servicing technologies. The company plans to set up satellite assembly, integration and testing facilities with space to hire up to approximately 30 personnel, while maintaining a smaller office in Paris for business development. In June 2023, Astroscale announced the opening of Astroscale France and a partnership with Centre National D’Etudes Spatiales (CNES) that includes a funded study for active debris removal of French space debris. In September 2023, Blatt was announced as the first key appointment for Astroscale France and will drive the growth by building a team that collaborates closely with CNES and other stakeholders, positioning France as an international leader in space sustainability.

#### **Marlink Renews Agreement with Intelsat to Deliver High Throughput Global VSAT Capacity**

October 18, 2023 – Marlink, the smart network and digital solutions company has renewed its agreement with Intelsat for supply of next-generation Ku-band capacity. Marlink will deliver the capacity to users within its hybrid digital network, available globally to customers across maritime, energy and enterprise sectors. The agreement includes the future use of satellites with a software-defined operating system, improving precision of signal delivery and a highly stable quality of service. The agreement covers global distribution of capacity within the network provided by Marlink and joint development initiatives to prepare users for software-defined satellite (SDS) services. The Marlink network spans all orbits and available frequencies enabling customers to increase the possibilities of their digitalisation strategies. Marlink will ensure the contracted capacity delivers digital enablement benefits to multiple segments requiring high throughput services, including merchant shipping, cruise and ferry and offshore installations by combining multiple networks into one unified solution, maximising throughput combined with guaranteed service availability and uptime.

#### **Arabsat Partners with Microsoft to Accelerate Cloud Adoption and Digital Transformation**

October 17, 2023 – Arabsat has announced that they have signed a memorandum of understanding (MoU) with Microsoft Arabia, to accelerate digital transformation and the development of its services. The partnership will pave the way for a series of technological projects, supporting Arabsat’s goal to become the leading satellite operator, while enhancing its connection with the whole world to provide services that suit Arab values and culture. The two organizations will work together to accelerate Arabsat’s digital transformation by adopting cloud computing technology to improve performance efficiency, increase productivity, and reduce costs to achieve sustainable growth. Both parties will also focus their efforts on utilizing the latest Microsoft technologies to develop Arabsat’s digital infrastructure and improving the digital capabilities of Arabsat employees to benefit from modern technical solutions. The partnership also aims to focus on developing value-added and quality services for the Arab market, which includes 21 Arabsat member states. These services combine Arabsat's expertise in space and Microsoft's technological capabilities to develop infrastructure, adopt the best internationally approved cybersecurity solutions, and build digital capabilities to enable countries to make the most of what both companies have to offer.

#### **Eutelsat OneWeb Partners with ACJ to Deliver VIP Inflight Connectivity**

October 17, 2023 – Eutelsat OneWeb has signed a Memorandum of Understanding with Airbus Corporate Jets (ACJ) to facilitate an unrivalled satellite connectivity experience onboard ACJs current and future fleet of VIP aircraft. Under the agreement, ACJ Connect Link will utilise the high-speed,

low latency, and global connectivity of Eutelsat OneWeb's Low Earth Orbit (LEO) satellite constellation and a dedicated electronic flat antenna. This unique satellite connectivity solution onboard aims at improving the connected passenger experience. The passenger will be able to connect just as if in their home or office, with bandwidth and latency ten times faster than the current Ka/Ku solutions allowing multi devices high quality streaming, live TV and video conferencing. ACJ Connect Link will be offerable on all Airbus Corporate Jets platforms in November 2024 and some operators have already shown interest in the solution to become early adopters.

#### **Viasat Partners MinFarm and Global Beam Telecom to Launch First IoT-over-Satellite Hub in Dubai**

October 16, 2023 - Viasat announced ELEVATE partners MinFarm Tech Ltd and Global Beam Telecom LLC are opening a new facility in Business Bay, Dubai, UAE for IoT-over-satellite innovation. Announced at Viasat's ELEVATE partner event on 11-12 October in London, the hub, scheduled to open in November, is the first of its kind in the region. It will offer customers the chance to trial a range of end-to-end IoT solutions in person, discuss their business needs and develop a turnkey solution to purchase. By combining Viasat's global satellite connectivity with MinFarm and Global Beam Telecom's technological expertise, the offering will allow customers to access bespoke solutions – including hardware and connectivity packages – designed for their specific requirements and use cases. The hub aims to remove the challenges of selecting the right business-enhancing satellite-enabled IoT solutions: making the technology more accessible by providing choice and consultation throughout the procurement process. The offering will benefit customers in the MENA (Middle East and North Africa) region from a range of industries including oil & gas, utilities and water management companies and provide a space for customers and IoT-industry experts to work together to deploy IoT-over-satellite solutions.

#### **New Satellite Agreement to Strengthen Strategic Partnership between France and Mongolia**

October 13, 2023 – A landmark agreement to construct a Mongolian national satellite telecommunications system has been reached which will strengthen the strategic partnership between Mongolia and France and boost connectivity for all Mongolians. The partnership agreement between Thales Alenia Space, a major European satellite specialist, and the Mongolia Ministry of Digital Development and Communications, has been signed today in the presence of the President of Mongolia, H.E. Mr. Ukhnaagiin Khürelsükh and the President of France, Mr. Emmanuel Macron, during the Mongolian President's state visit to France. Thales Alenia Space will be responsible for construction of a high-performance Ku Band satellite, to be named "Chinggis Sat" after Mongolia's national hero Chinggis Khan. Once launched, the satellite will make high-speed internet available throughout Mongolia, including to those in rural areas and underserved nomadic communities, enabling easier and wider access to services such as telemedicine, e-learning, e-government services and supporting the growth of high value add sectors of the economy.

#### **Marlink Signs Multi-year Agreement on EUTELSAT 10B for Maritime Connectivity over EMEA**

October 10, 2023 – Eutelsat Communications announces that Marlink has signed a multi-year commitment for GEO High Throughput Ku-band capacity on its EUTELSAT 10B satellite, covering Europe, the Middle East, and Africa, together with critical maritime routes. This new agreement comes in addition to existing undergoing partnerships previously signed between Marlink and Eutelsat for maritime connectivity across the globe. This new agreement provides Marlink with targeted, dense and highly flexible bandwidth over vast sailing areas and offshore locations covered by the multi-mission high-capacity EUTELSAT 10B satellite. In service since July 2023 at the 10°East orbital position, the satellite is carrying two multi-spotbeam High-Throughput Satellite (HTS) Ku-band payloads: a payload covering the North Atlantic corridor, Europe, the Mediterranean basin, and the Middle East, offering significant throughput in the busiest air and sea traffic zones, and a second payload to extend coverage across the Atlantic Ocean, Africa, and the Indian Ocean. This agreement also provides Marlink with access to Eutelsat Group's ground infrastructure, delivering robust and secure uplink capabilities.

### **Kratos' OpenSpace® Satellite Ground Platform Achieves MEF 3.0 Carrier Ethernet Certification**

October 10, 2023 – Kratos Defense & Security Solutions, Inc., a technology company in Defense, National Security and Global Markets, announced today that its OpenSpace® Platform is the first commercially available, fully virtualized satellite ground system to achieve MEF 3.0 Carrier Ethernet certification. The OpenSpace Platform enables satellite operators to deliver and manage their services for applications including communications, MilSatcom, earth observation, remote sensing and more. Entirely software-defined and using the same industry standards adopted by global terrestrial and mobile network carriers, such as MEF's Carrier Ethernet (CE) standard, OpenSpace makes satellite service networks interoperate seamlessly with terrestrial and cellular transport networks. The convergence of satellite and telecom networks is predicted to lead to revenue gains of \$35 billion by 2035 according to the GSMA, a global organization unifying the mobile ecosystem. Standards such as Carrier Ethernet play a critical role in this convergence by enabling satellite and telecommunications to integrate more easily. This convergence will benefit both industries: enabling terrestrial network providers to reach remote users who are inaccessible through fiber or cellular technologies while expanding the addressable market for satellite communications.

### **Kymeta Launches First Multi-Orbit, On-the-Move Flat-Panel Antenna for Military Users**

October 10, 2023 – Kymeta announced today at AUSA 2023 Annual Meeting and Exposition the launch of the Osprey u8 HGL, a hybrid geostationary/low Earth orbit (GEO/LEO) terminal purpose-built for military users. Leveraging Eutelsat Group's (formally known as OneWeb) LEO satellite network, the Osprey u8 HGL is a complete, customizable solution that can be easily mounted on a wide array of military vehicles and vessels, providing connectivity on-the-move. This marks the first commercially available multi-orbit terminal and the first multi-orbit terminal on Eutelsat Group's LEO network. Kymeta is taking orders now, with the first shipments set to go out in early Q1 2024. This new hybrid solution builds upon Kymeta's existing portfolio of products and expertise. With the Osprey u8 HGL, Kymeta will deliver truly resilient, auto-PACE ready communications for the armed forces to meet the demands of challenging and rugged military environments. The multi-orbit capabilities of the Osprey u8 HGL will offer even greater availability, while being durable, highly customizable, low power, low visibility, and easy to use, requiring no satcom expertise.

### **Comtech Receives U.S. Army Contract with \$544 Million Ceiling to Provide Communications and Engineering Support Services**

October 9, 2023 – Comtech announced that it was recently awarded a U.S. Army contract with a maximum ceiling value of \$544 million. Under the contract, Comtech will provide onsite professional engineering services, as well as supply and support the company's market leading satellite and terrestrial networking communications technologies for the Project Manager (PM) Tactical Network (TN) for the Global Field Service Representative (GFSR) support program. The GFSR program provides ongoing communications and IT infrastructure support for the Army, Air Force, Navy, Marine Corps, and NATO-enabling U.S. and coalition forces to maintain robust, resilient, and secure connectivity for global all-domain operations in all environments. This task order was awarded on Comtech's existing contract with the U.S. Army, which leverages the ten-year, \$5.1 billion Global Tactical Communications Systems (GTACS) II indefinite delivery / indefinite quantity (IDIQ) contract vehicle. Comtech was initially selected as one of multiple GTACS II IDIQ awardees in 2020. The GTACS II contract is designed to support of the Program Executive Office Command, Control and Communications-Tactical (PEO C3T), and PM TN. GTACS II provides the rapid acquisition of a wide range of C3T hardware, software, engineering services and logistics support services with an emphasis on tactical satellite communications.

### **INTEGRASYS and Network Innovations Forge Strategic Partnership**

October 7, 2023 – INTEGRASYS announced a strategic partnership with Network Innovations, a renowned industry player with a remarkable 35-year legacy as a global technology integrator. The formal relationship specifically features Network Innovations' Advanced Networks division, which



provides end-to-end networking solutions that address the complex challenges of space and terrestrial networks, including the ever-evolving cybersecurity threats faced today and beyond. INTEGRASYS's cutting-edge technologies will be adopted internally by Network Innovations, reinforcing its commitment to delivering top-tier satellite communication solutions. Moreover, these innovative technologies will be integrated into Network Innovations' end-customer offerings, enhancing the efficiency of operations, and ensuring seamless deployments, among other benefits. INTEGRASYS and Network Innovations are aligned in their dedication to advancing the satellite communication industry. This partnership is expected to accelerate developing and deploying cutting-edge solutions, ultimately benefitting customers worldwide.

### **U.S. Army Awards Comtech \$48.6 Million for Next Generation EDIM SATCOM Solutions**

October 3, 2023 – Comtech was recently awarded a \$48.6 million contract to deliver Enterprise Digital Intermediate Frequency Multi-Carrier (EDIM) modems in support of U.S. Army satellite communications (SATCOM) digitization and modernization programs. Under the contract, Comtech will design, develop, test, and deliver EDIM units and provide hardware, software, and sustainment services to support performance enhancements for EDIM solutions. Comtech's EDIM modems are designed to support multiple satellite providers and will become one of the primary modems used for U.S. military SATCOM. Comtech's EDIM modems will also replace the aging Enhanced Bandwidth Efficient Modem (EBEM) currently supporting Army, Navy, and Air Force SATCOM users with an advanced digital and software-defined platform. Built on open architecture standards, Comtech's EDIM solutions are designed to be easily integrated with other terrestrial and non-terrestrial communications systems to enable unified hybrid network infrastructures that will bring forward a new era of blended, smart-enabled connectivity.

## **BROADCAST**

### **PSSI Global Services Selects Eutelsat Group to Expand Live Sports Content Delivery over North America**

October 27, 2023 – Eutelsat Communications announces that PSSI Global Services has signed a new agreement, renewing and expanding a partnership for capacity on its EUTELSAT 113 West A satellite. PSSI Global Services is a worldwide leader in broadcast transmission solutions for major live sports events. With over 40 years of experience, along with the Pittsburgh Teleport Gateway and a fleet of over 30 C-band and Ku-band satellite uplink production trucks, PSSI offers a seamless end-to-end service, specializing in the coordination, production and distribution of domestic and international events. With Eutelsat Group as their primary satellite operator for the past 5 years, PSSI are continuing to grow their remote production services, for high value sports content contribution to broadcast rights holders, with premium North American clients including MMA, UFC, NFL, NHL, NBC Sports, PGA, FOX Sports, and CBS Sports.

### **Sada Al Malaeb's Four TV Channel Bouquet now on Es'hail-2 Satellite**

October 25, 2023 – Es'hailSat, the Qatar Satellite Company, is proud to announce that four television channels Sada Al Malaeb, Al Khaleej, Cinderella and Samar are now available on Es'hail-2 satellite located at the 26° East hotspot covering Middle East and North Africa (MENA) region. This is part of a multi-channel, multi-year deal between Sada Al Malaeb and Es'hailSat which includes both satellite bandwidth as well as uplink services from Es'hailSat's 50,000sqm Teleport facility in Doha, Qatar. Sada Al Malaeb is bouquet of Sports, Cultural and Social TV channel based in Riyadh focusing on Saudi Arabia and the Gulf countries with a wide variety of programming that caters to the region's growing population. The channels are now part of the Es'hail-2 channels bouquet which further adds to the attractive line up of Arabic content currently broadcasting via Es'hail-2 satellite.

### **SES Launches SCORE Platform to Better Manage and Distribute Live Sports & Events**

October 19, 2023 – Content owners and rights holders looking to effectively manage and distribute live sports and events to affiliates and takers will now be able to leverage a newly launched media platform, the SES Sports Content Orchestration Enabler (SCORE), SES announced today. SES SCORE's single user interface provides an easy-to-use centralised platform that connects content owners and rights holders with takers worldwide, allowing for a simplified content booking process for delivery via SES's hybrid infrastructure of satellite, IP and fiber. Through the platform, rights holders can easily monetize their content by indicating availability, setting prices for components such as multiple feeds, different audios or metadata so that broadcasters and operators can make informed decisions on content they would like to procure and broadcast to their audience. SES SCORE also ensures content protection with the latest encryption and conditional access protocols. SES broadcasts over 700 hours of sports and live events every day, from niche sports championships to major broadcast events. The SES SCORE platform reinforces SES's market leadership in live sports and events and its continued focus on expanding its sports and events capabilities to better serve its customers.

### **National Football League Teams Up with SES for Game Content Distribution**

October 23, 2023 – SES announced a renewal of its partnership with the National Football League (NFL) to deliver NFL game content to over 35 broadcast partners across Europe, Asia, North and South America. Leveraging SES's advanced satellite, IP and fiber network, broadcasters can rely upon prime capacity with resilient back-up solution to ensure that viewers can enjoy NFL games uninterrupted, regardless of location. In order to meet NFL's requirements, SES offered a unique combination of IP-based transport protocol (SRT) and its global satellite fleet to seamlessly deliver all game content. This included the addition of the recently launched content orchestration platform, SES SCORE, and SES's new ASTRA 1 Sports platform in Europe, with renewed prime satellite capacity for Americas (SES-14) and Asia to distribute over 150 upcoming games with the option to add more games in the future. SES has worked with the NFL since 2005, and today offers five simultaneous feeds for NFL games across its global content delivery network, with the ability to expand to 14 feeds if needed.

### **EUTELSAT 117 West A Selected by TV Azteca for its Video Distribution over Mexico**

October 6, 2023 – TV Azteca, a subsidiary of Mexico's leading telecom operator, financial services, insurance, and retirement fund Grupo Salinas, has renewed its satellite capacity commitment through a multi-year agreement with Eutelsat Communications. Further strengthening a decade-long partnership between TV Azteca and Eutelsat Group, this new agreement on EUTELSAT 117 West A satellite assures TV Azteca's continuity of video distribution services in Mexico. Operating a video multiplex to deliver its HD channels to digital TV towers and cable head-ends across Mexico, TV Azteca is leveraging EUTELSAT 117 West A's exceptional C-band coverage of the region to distribute its satellite television service. The new resources on EUTELSAT 117 West A will potentially allow TV Azteca to provide a broader range of video services, extending their current reach by accessing new and untapped markets in the region. Eutelsat Group's 117° West location is the premium TV neighbourhood for Latin America, offering pan-regional distribution of major networks and content providers. With an extremely strong cable head-end penetration, top pay-TV operators in Latin America receive their content from 117° West. Around 400 TV channels, 80 in HD, are currently distributed to over 110 million TV homes across the continent. 117° West is also a growing free-to-air TV neighbourhood with 100 TV channels broadcasting in the clear, including channels from key regional public and private broadcasters.

## **LAUNCH / SPACE**

### **Rocket Lab Receives Federal Aviation Administration Authorization to Resume Launches**

October 25, 2023 – Rocket Lab USA, Inc, a global leader in launch services and space systems, today announced it has received authorization from the Federal Aviation Administration (FAA) to resume

Electron launches from Launch Complex 1. The authorization comes after Rocket Lab experienced an in-flight anomaly on September 19th during the Company's 41st Electron launch. The FAA, the federal licensing body for U.S. launch vehicles, has now confirmed that Rocket Lab's launch license remains active, which is the first step to enable launches to resume. During the September 19th mission, Electron completed a successful lift-off, first stage burn and stage separation as planned, before an issue was experienced at around two and a half minutes into flight shortly after second stage engine ignition. Flight data shows Electron's first stage performed as expected during the mission and did not contribute to the anomaly.

### **MDA Selects SpaceX to Launch Chorus Constellation**

October 25, 2023 – MDA Ltd., a leading provider of advanced technology and services to the rapidly expanding global space industry, announced today at its Earth Insight customer conference that it has selected SpaceX to be the launch service provider for CHORUS, MDA's next generation Earth observation constellation. CHORUS is targeted to launch on SpaceX's Falcon 9 rocket in the Q4 2025 launch window from Florida. A collaborative multi-sensor constellation, CHORUS will bring together diverse and unique imagery and data sources and provide a new level of near real-time insight and innovative Earth observation services. Operating in a unique mid-inclination orbit, CHORUS will be able to image day or night, regardless of weather conditions, with daily access of up to 95% of the coverage area. From an industry-leading 700km-wide imaging swath down to sub-metre high resolution, CHORUS will provide the most extensive and unrivalled Earth observation radar imaging capacity available on the market in a single mission.

### **Terran Orbital to Build 36 Satellite Buses for Lockheed Martin**

October 24, 2023 – Lockheed Martin has awarded Terran Orbital Corporation a contract to build 36 satellite buses for Space Development Agency's (SDA) Tranche 2 Transport Layer (T2TL) Beta constellation. Terran Orbital will deliver the buses to Lockheed Martin, which will conduct payload integration and jointly operate the satellites with SDA. SDA's T2TL Beta constellation will advance the Proliferated Warfighter Space Architecture's (PWSA) initial warfighting capability with targeted technology enhancements, mission-focused payload configurations, and increased integration. The PWSA provides a resilient, low-latency communication system to connect warfighter platforms worldwide and help the military target threats and detect and track missiles. Terran Orbital is currently building 42 buses for Lockheed Martin to help the company fulfill its \$700 million contract for the SDA's Tranche 1 Transport Layer (T1TL), currently scheduled for a late 2024 launch.

### **UK Space Agency and JAXA Confirm Bilateral Collaboration for Viasat and MHI to Develop Inrange Satellite-Based Launch Telemetry System for Japanese H3 Launch Vehicle**

October 20, 2023 – The UK Space Agency (UKSA) and Japan Aerospace Exploration Agency (JAXA) have agreed to start bilateral collaboration to develop an in-orbit telemetry relay service, called "InRange", which will be demonstrated on the H3 launch vehicle. The bilateral collaboration for InRange builds upon the Memorandum of Cooperation (MoC) signed between both space agencies in 2021. Under this framework, InRange is jointly funded through UKSA's International Bilateral Fund for the development of a new in-orbit telemetry relay service for space launch vehicles using Inmarsat-Viasat's global L-band network in geosynchronous orbit by Viasat and through JAXA for the transmitter and antenna development for the H3 launch vehicle by Mitsubishi Heavy Industries, Ltd. (MHI). The UKSA contract announced today for Viasat is valued at £1.7M. Viasat's InRange service will reduce the dependency of launch providers on traditional ground-based infrastructure by providing a global in-orbit telemetry solution, using Viasat's geostationary ELERA L-band satellite network. By using the InRange service for the H3 Launch vehicle, launch trajectories can be optimized by removing reliance of line-of-sight coverage with ground stations during critical stages of the launch. In some cases, this will also reduce the fuel required to deliver spacecraft into orbit which will increase the mass available for the launch customer's payload. Viasat and MHI will work in collaboration to validate the InRange service and demonstrate the capability on an H3 launch. Japanese company NEC

Space Technologies, Ltd. will also take part in this project, focusing on the L-band transmitter design which will be integrated into the H3 launch vehicle by MHI. JAXA will collaborate with the parties and play a technical role in integrating InRange into the ground infrastructure.

### **Euroconsult and ICEYE to Lead AEGIS<sup>2</sup> Consortium for the Future of European Earth Observation**

October 16, 2023 – A recent request by the European Commission for feasibility study proposals exploring the best way to implement a future satellite-enabled Earth-Observation service for government-authorized users at EU and EU Member States has resulted in the creation of a groundbreaking Earth Observation (EO) consortium. The collaboration, named AEGIS<sup>2</sup> (Advanced European Governmental Innovative ISR Secured Service), is made up of 15 members representing eight European countries, under the leadership of Euroconsult and ICEYE, aiming to investigate innovative, secured, and sustainable solutions for the future European Union’s Earth-Observation governmental service. The global geopolitical environment is constantly evolving, and the need for strong security has never been more important as highlighted in the EU space strategy for security and defence. To bridge the gap between current capacity and future requirements, the European Commission is looking towards a new Earth Observation service for EU governments. This service aims to provide reliable and continuous situational awareness information to authorized EU Member States and allied users. AEGIS<sup>2</sup> is committed to utilizing the latest advancements in space technologies and operational concepts to meet the aims and objectives of the European Commission’s vision.

### **Relativity Space and Intelsat Sign Multi-Launch Agreement for Terran R**

October 11, 2023 – Relativity Space has signed a multi-year, multi-launch Launch Services Agreement (LSA) with Intelsat, operator of the largest integrated space and terrestrial network in the world. Under the agreement, Relativity will launch Intelsat satellites on Terran R as early as 2026. As a medium-to-heavy-lift, reusable launch vehicle made for growing satellite launch demand and eventually multiplanetary transport, Terran R provides both government and commercial customers affordable access to space, in LEO, MEO, GEO and beyond. Relativity has a total of nine signed customers for Terran R, including multiple launches and totaling more than \$1.8 billion in backlog. Terran R was developed to accommodate the growing demand for large constellation launch services. With a payload fairing that offers the right market fit to meet a variety of needs, Terran R supports use cases from dedicated payload deployments of constellation customers or single geosynchronous satellites to rideshare configurations for multiple customers per launch. Putting customers first, Relativity is designing and manufacturing rockets that offer high performance and reliability, while costing less to produce and fly.

### **Skyrora, Viasat, and CGI Partner to Develop a Commercial Space-based Launch Vehicle Telemetry Solution**

October 11, 2023 – Skyrora, Viasat, and CGI have been awarded a contract by the European Space Agency (ESA) under the Commercial Space Transportation Services programme to demonstrate InRange, a space-based launch vehicle telemetry relay system which will benefit launch vehicle providers across the industry globally. InRange will enable Skyrora to achieve continuous transmission of telemetry data during flight, from launch to payload deployment. The collaboration will focus on Skyrora’s suborbital Skylark L launch vehicle, demonstrating InRange connectivity over Viasat’s global ELERA L-band satellite communication networks. The initial stage of the project will include Viasat conducting ground testing of the InRange solution with Skyrora’s launch vehicle system. CGI will undertake a market study and analysis of ground stations to determine the commercial potential of the solution within the wider launch service provider market. Going beyond the utilization of traditional ground stations, which are limited to connecting with a launch vehicle beyond the horizon line, the InRange solution will leverage geostationary satellites in space to enable continuous data transmission between the launch vehicle and the service provider during flight. As such, this collaboration between Skyrora, Viasat, and CGI will address a key issue for launch vehicle providers.

### **OQ Technology Confirms Successful Launch of MACSAT Satellite**

October 10, 2023 – OQ Technology announced the successful launch of its new Low Earth Orbit (LEO) satellite, MACSAT, aboard Arianespace’s Vega (mission VV23). This pivotal development will strengthen its space and ground infrastructures while broadening its satellite coverage. The satellite was launched from French Guiana at 10:37 p.m. local time on Sunday, October 8, 2023 (3:37 AM on Monday, October 9, 2023 Luxembourg time) and signal was acquired by a ground station in Lithuania on Sunday 07:24 PM UTC). By deploying the MACSAT satellite and augmenting its existing constellation of five satellites in orbit, and with an additional four satellites set for a 2023 launch, OQ Technology underscores its deep commitment to the rapidly growing Satellite IoT market. This market is predicted to exhibit a CAGR of 20% from 2023 to 2032, with an expected valuation of US\$ 18 billion by 2032. OQ Technology is strategically positioned at the vanguard of this shift, poised to seize a significant market portion and elevate its commercial achievements.

### **THEOS-2 Airbus-built Satellite for Thailand Successfully Launched**

October 9, 2023 – The Airbus-built THEOS-2 Earth observation satellite has been successfully launched on a Vega rocket from Kourou, Europe’s spaceport in French Guiana. The Geo-Informatics and Space Technology Development Agency of Thailand (GISTDA) selected Airbus as partner for its next-generation national geo-information system in 2018. The contract also includes a second Earth observation satellite – THEOS-2 SmallSAT – from Airbus’ subsidiary SSTL, combined with a comprehensive capacity building programme involving Thai engineers in the development of applications, ground segment and the SmallSAT spacecraft itself. THEOS-2 SmallSAT is based on SSTL’s CARBONITE series of Earth observation spacecraft and has been delivered to Thailand. SSTL also proposes a training programme for GISTDA to enable Thai engineers to design, manufacture, integrate and test similar small satellites in Thailand in the future.

### **Astroscale Japan Awarded Grant of up to U.S. \$80 Million by Government of Japan to Inspect a Large Defunct Satellite in Orbit**

October 2, 2023 – Astroscale Japan Inc. has been selected by the Japan Ministry of Education, Culture, Sports, Science and Technology (“MEXT”) for its Small and Business Innovation Research (SBIR) program to develop an on-orbit inspection demonstration mission that will image and diagnose a large, defunct satellite in space. The MEXT-funded project is divided into three phases, and Astroscale Japan will receive up to JPY 2.69 billion (approximately U.S. \$18 million) for Phase 1, and up to JPY 12 billion (approximately U.S. \$80 million) in total for all three phases. Mission development will begin this month with a maximum term of up to March 2028. The SBIR program was established to promote research and development for Japanese startups and organizations engaged in advancing innovative technologies, and to facilitate the smooth implementation of results through government support.

## **EXECUTIVE MOVES**

### **Maxar Intelligence Appoints Dan Smoot as CEO**

October 31, 2023 – Maxar Intelligence, a provider of secure, precise, geospatial intelligence, today announced the appointment of Dan Smoot as CEO, effective November 6, 2023, completing an exciting phase of investment in the business’ senior leadership talent. Daniel Jablonsky, who has been serving as interim CEO of Maxar Intelligence, will transition to the Board of Directors. Smoot is an accomplished technology executive with over 30 years of management experience at some of the world’s most successful software and IT companies, including senior executive positions at Salesforce, Cisco and VMWare. Most recently, he served as CEO of Riverbed Technology, where he led the IT company’s transformation from a hardware provider to a software-focused business that today serves national security agencies and 95% of the Fortune 100. Smoot will lead a new Maxar Intelligence management team with extensive experience in the national security, space and technology sectors.

### **SES Appoints Adel Al-Saleh as CEO**

October 13, 2023 – SES announced that Adel Al-Saleh has been hired as the company’s Chief Executive Officer, effective February 2024. Since January 2018, Al-Saleh has been CEO at T-Systems International GmbH, the integrated IT services provider and subsidiary of telecommunications company Deutsche Telekom AG (DT), and he has served as a member of the Board of Management at DT throughout this period. In his time at T-Systems, Al-Saleh led the transition from a classic information technology and outsourcing business to an integrated IT services and digital solutions provider while driving growth initiatives to optimize operations, improve efficiency, increase customer satisfaction, expand employee engagement and maximize profitability. Interim SES CEO Ruy Pinto, who served as SES’s Chief Technology Officer from 2019 to 2023, will continue to lead SES through January 2024, after which Pinto will remain as a member of the executive team until June 2024 and then will assume the role of strategic advisor to the CEO. Milton Torres, who succeeded Pinto as CTO on an interim basis, will continue in that capacity going forward.

### **ST Engineering iDirect Appoints Sridhar Kuppanna as Senior Vice President of Engineering**

October 11, 2023 – ST Engineering iDirect, a global leader in satellite communications, has announced two new strategic appointments to its leadership team. Sridhar Kuppanna has been appointed as its new Senior Vice President of Engineering. With over 25 years of experience in managing global R&D teams, driving innovation and bringing new products to market, Kuppanna will focus on the development and delivery of ST Engineering iDirect’s next generation platform. He joins from Ribbon Communications where he held responsibilities for delivering industry-leading Secure Cloud Communications solutions to service providers and large enterprise customers around the world.

### **Thaicom CEO, Patompob (Nile) Suwansiri Named ‘Asia-Pacific Satellite Executive of the Year’ at the 2023 APSCC Awards**

October 11, 2023 – Patompob (Nile) Suwansiri, Thaicom’s Chief Executive Officer, has been named The Asia-Pacific Satellite Executive of the Year by the Asia-Pacific Satellite Communications Council (APSCC). Thaicom’s CEO was recognized at the APSCC’s 18th annual awards ceremony, which held on October 10, 2023, at the Sheraton Imperial Hotel in Kuala Lumpur, Malaysia, as part of the APSCC’s 2023 Satellite Conference and Exhibition. The award honored an industry executive’s excellent leadership achievements and the long-term impact of those efforts in the satellite and space industry. Nile has more than 30 years of experience in the satellite industry. He has been with Thaicom since its inception in 1992 and was appointed as the CEO in 2022. He is currently leading Thaicom to become a leading regional space tech company. Under his leadership, Nile led Thaicom’s come-back by obtaining the Thai Orbital Slot to secure Thaicom’s future with the right to do business for the next 20 years as well as securing long-term strategic partnerships with global partners to create synergies to strengthen reliable connectivity for Asia-Pacific. He has also worked on transitioning Thaicom from a satellite operator to a regional space technology company, with the goal of attaining long-term profitability through the expansion of its business portfolio and sound financial management. Under Nile’s direction, Thaicom has made a contribution by promoting rural internet connectivity for underserved communities and extending the company’s Sustainable Development initiatives through distant learning via satellite communications.

## **REPORTS**

### **NSR Releases 5G via Satellite 4<sup>th</sup> Edition**

October 31, 2023 - NSR’s 5G via Satellite 4th Edition is the first and unique report that looks into the broad and deep implications of 5G into the Satellite Communications industry. It covers 5G in its widest scope, from the transformation of the infrastructure segments, to the extensive use cases stimulated by 5G, specifically Cellular Backhaul, Trunking, Corporate Networks, Aero, Maritime, Land-

Mobile, Gov and Mil. The report offers actionable recommendations for each step of the satellite value chain to take advantage of satellite-telco integration and succeed in the adoption of 5G.

## UPCOMING EVENTS

**ITU World Radiocommunication Conference 2023 (WRC-23)**, November 20 – December 15, Dubai, UAE, <https://www.itu.int/wrc-23/>

**OTT SUMMIT**, December 8, Singapore, <https://ottsummit.asia/>

Join us at the OTT Summit in Singapore as we speak to some of the industry's top leaders for their insights into these questions and more, as they gear up for greater growth and expansion for their businesses in 2023 and beyond. 15% Off Discount code: **OTTPNRS**

**Middle East Space Conference**, January 8-10, Muscat, Oman,

<https://www.euroconsult-ec.com/euroconsult-events/middle-east-space-conference/>

**Convergence India 2024**, January 17-19, New Delhi, India, <http://www.convergenceindia.org>

**PTC'24**, January 21-24, Honolulu, Hawaii, USA, <https://www.ptc.org>

Register today for the premier digital infrastructure, telecommunications, and ICT event of the year! Join top-level executives, technologists, thought leaders, investors, and more, as we set the business agenda for the year and set the course for the future of the industry. We've curated an experience that promises to elevate your professional growth and strategic planning.



**Global Space and Technology Convention**, February 14-16, Singapore,

<https://www.space.org/gstc/>

## EDITORIALS AND INQUIRIES

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

*Inho Seo, Editor, APSCC Publication*

*Asia-Pacific Satellite Communications Council (APSCC)*

*T-1602, 170, Seohyeon-ro, Bundang-gu, Seongnam-si,*

*Gyeonggi-do, 13590, Rep. of KOREA*



Tel: +82 31 783 6247 | Fax: +82 31 783 6249

E-mail: [editor@apsc.or.kr](mailto:editor@apsc.or.kr) Website: [www.apsc.or.kr](http://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](http://www.apsc.or.kr).*