

# APSCC Monthly e-Newsletter

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

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

### INSIDE APSCC

#### **APSCC 2023 Satellite Conference & Exhibition (APSCC 2023), October 10-12, Kuala Lumpur**

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 2023 Satellite Conference and Exhibition will be heading to KL, Malaysia - Reconnect, communicate, and collaborate on the industry's challenges and opportunities that lie ahead! Regarding sponsorship, exhibition and speaking opportunity, please contact the APSCC 2023 team at [apsc2023@apsc.org](mailto:apsc2023@apsc.org)

#### **APSCC 2022 Webinar Series Continues**

APSCC 2023 Webinar Series – the most frequent and largest ongoing virtual conference in the Asia Pacific satellite community – incorporates industry veterans, local players, as well as new market entrants in a single event to reach a wide-ranging audience. The APSCC 2023 Webinar Series continues to play a vital role in supporting the industry in the Asia Pacific region and beyond with a brand-new format, a lengthened timeline, and a potentially unlimited reach. The first edition of webinar, *Satellite Direct-To-Device - Decoding the Largest Opportunity for Satcom*, is now available VOD at <https://apsc.org/webinar/>

### SATELLITE BUSINESS

#### **Sealift Incorporated Counts on Inmarsat Fleet Hotspot to Meet Crew Connectivity Requirements**

March 30, 2023 – Established in 1975 in New York, United States, Sealift Incorporated is a privately held shipping company. The corporation's owned fleet of six container ships relies on services from Inmarsat, a world leader in global, mobile satellite communications, to meet connectivity requirements at sea. In 2021, Sealift extended its existing agreement with Inmarsat by signing five of its vessels up to the award-winning Fleet Hotspot, with installations taking place in late 2021 for the first two vessels and in mid-2022 for the remaining three. Powered by Inmarsat's Fleet Xpress, a market-leading connectivity service, Fleet Hotspot is a dedicated crew internet solution that delivers reliable, high-speed onboard connectivity without interfering with vessel bandwidth. Crew can access the solution using their personal devices and top up their accounts, whether on board or ashore, via a user-friendly platform.

#### **Speedcast and International Cruise Line Achieve New Industry Milestone, Supplying Highest Continuous Capacity in Cruise History**

March 28, 2023 – Speedcast announced the successful implementation of a specialized connectivity solution delivering unparalleled data rates for an international cruise line's newest vessel. The innovative, satellite-to-ship tracking solution was deployed for the ship, which runs on liquified natural gas and can accommodate 6,500 passengers. The cruise line's new connectivity service was

launched as part of the vessel's inaugural 14-day transatlantic crossing, and now plays an integral role in the success of the vessel's year-round service. Speedcast is delivering dedicated capacity, which is a CIR-based (committed information rate) service versus a 'best effort' solution. The capacity is available at all times throughout the itinerary. Supporting the ship's onboard network is Speedcast's TrueBeam technology, a software-driven platform that maintains quality of service across satellite beams with automated, smart beam-switching and traffic-steering based on location, footprint contours and committed information rates. Speedcast's TrueBeam platform enables comprehensive tracking between the satellite and ship for the highest levels of availability, meeting full vessel capacity demands.

### **Axelspace Collaborates in the “Development and Demonstration of Inter-satellite Optical Communication Network System”**

March 28, 2023 – Axelspace Corporation is pleased to announce that we have been selected for the “Development and demonstration of inter-satellite optical communication network systems” by New Energy and Industrial Technology Development Organization (NEDO). This is under the “Key and Advanced Technology R&D through Cross Community Collaboration Program”. Through this development and demonstration project, we will cooperate with Space Compass Corporation (a joint venture between NTT and SKY Perfect JSAT), the National Institute of Information and Communications Technology (NICT), and NEC Corporation. In this project, Axelspace will research and develop microsatellite technologies that will enable the provision of high-capacity, low-latency data communication and data processing services. Axelspace will then demonstrate the functionality and performance of the satellite optical communication network system in the vicinity of Japan by 2029.

### **ANYWAVES Signs a Major Contract with Maxar Technologies**

March 23, 2023 – ANYWAVES, the European equipment manufacturer announces the signing of a contract with Maxar Technologies, a U.S.-based company specializing in the manufacturing of telecommunication, Earth observation, radar and in-orbit servicing satellites, satellite products and other related services. ANYWAVES set its sights on the United States when it announced its €3 million fundraising in December 2022. It is now well underway with the signature of a contract with Maxar Technologies covering the supply of some 120 products to be delivered by the end of 2023. Maxar has chosen ANYWAVES for its navigation, telemetry, and remote-control antennas, as well as for the associated test caps, in support of its proliferated low Earth orbit (LEO) product line.

### **Japanese Approval for SAILOR XTR VSAT Antennas**

March 23, 2023 – Cobham Satcom has received Japanese Radio Law certification for use of the innovative SAILOR 1000 XTR and SAILOR 600 XTR Ku VSAT antennas with the ST Engineering iDirect MDM3315 satellite modem. The new modem option provides users with a supported platform for current and future usage whilst offering choice and availability with increased performance. This ensures that regional service providers can continue to offer highly reliable services with SAILOR XTR antennas as well as new capabilities to end-users. The pairing of SAILOR XTR and the MDM3315 satellite modem unlocks high performance VSAT connectivity, giving Japanese coastal and deep sea satcom users faster internet with which to transform marine and business operations through diverse applications; from digital reporting and condition-based maintenance to improved crew communications for the large regional fishing fleets. Together, SAILOR XTR and the MDM3315 satellite modem will provide more diversity for the two popular maritime broadband services, “JSATMarine” and “JSATMarine Light” provided by SKY Perfect JSAT in Japan. JSATMarine enables the fastest available Asian VSAT connectivity for deep-sea vessels with speed up to 50Mbps (downlink) and unlimited data at a fixed price. The JSAT Marine Light will also see a performance boost to support customers operating outside of its core LTE coverage, with low-price VSAT services offering speeds up to 6Mbps downlink.

### **AtomBeam Technologies Join Inmarsat's ELEVATE Programme**

March 23, 2023 – AtomBeam Technologies, a data compaction software company, today announced it has joined Inmarsat's ELEVATE programme. ELEVATE is a development programme, ecosystem and marketplace for providers of software, hardware and solutions, and original equipment manufacturers (OEMs) in commercial land markets. As an ELEVATE partner, AtomBeam Technologies will provide customers with a reliable solution to significantly save on bandwidth usage and heighten security across connected IoT devices. As part of the programme, AtomBeam Technologies will benefit from Inmarsat's global L-band network ELERA, the leading satellite network for the Internet of Things (IoT). This will enhance the company's ability to meet customers' data needs, wherever they may be. AtomBeam Technologies, a California-based software company, provides a patented data solution called Compaction. It dramatically reduces the size of IoT message payloads by up to 75%, which significantly reduces airtime costs when applied over satellite networks.

### **Spacecom and Azercosmos Sign Long-Term Agreement to Expand Coverage Area and Provide Quality Satellite Services in Africa**

March 23, 2023 – Spacecom has announced a new long-term cooperation agreement with Azercosmos, Space Agency Azerbaijan, to expand its coverage area. Under the new agreement, Spacecom and Azercosmos will collaborate to leverage the Azerspace and AMOS satellites, enabling them to extend their coverage area. As part of Spacecom's strategic plans, the company aims to extend its satellite communication services in the African region. Spacecom owns and operates the strategically placed AMOS satellite fleet, which comprises of AMOS-3 and AMOS-7 co-located at 4°W, AMOS-4 at 65°E, and AMOS-17 at 17°E, providing vast and reliable coverage over Africa, Asia, Europe, and the Middle East. Azercosmos successfully provides high quality and seamless distribution of broadcasting, data, video, and audio services to partners across the globe by operating telecommunication satellites - Azerspace-1 and Azerspace-2. As part of the agreement, Spacecom has obtained the opportunity to serve its customers using teleport services located in the Main Ground Satellite Control Center of Azercosmos.

### **Vietnam Acquires Search-And-Rescue Solution Based on Thales Alenia Space Advanced Technology**

March 21, 2023 – Thales Alenia Space has signed a contract with prime contractor MKE to provide Vietnam with a MEOLUT (Medium Earth Orbit Local User Terminal) Next ground station that will operate as part of the COSPAS-SARSAT global MEOSAR search-and-rescue (SAR) network. The solution will make it possible to detect and locate distress signals from COSPAS-SARSAT beacons on land, in the air and at sea instantaneously over a radius of 2,500 km centered around Haiphong, mainly using the Galileo satellite positioning system. Thales Alenia Space's innovative MEOLUT Next product, which employs a phased array antenna, will give Vietnam unrivaled performance. Where conventional MEOLUT systems rely on six large parabolic antennas each covering an area about the size of a football field and are therefore only capable of receiving signals from six satellites simultaneously (one per antenna), the MEOLUT Next solution, with its compact antennas taking up less than six square meters, tracks up to 30 satellites, significantly enhancing distress beacon detection and expanding coverage. MEOLUT Next is thus capable of detecting and locating distress signals from more than 5,000 km away. The solution is already operated by the main users of COSPAS-SARSAT (USA, Canada, France, the European Union, and Togo) and more recently by Thailand. It is today helping to save lives, as recently demonstrated in the Indian Ocean.

### **INTEGRASYS is Twice Awarded Technology of the Year in the SATELLITE 2023**

March 21, 2023 – INTEGRASYS is proud to announce that the company and its new products have received two different prizes (MSUA and WTA) during exclusive award ceremonies at the SATELLITE 2023 show in Washington (USA) last week. The first one was for our new software, Veryfiling, which helps with the filing and EPFD (Equivalent Power Flux Density Limit) compliance evaluation under the International Telecommunication Union (ITU) standards. This product was awarded by the Mobile Satellite Users Association (MSUA) with the recognition as the best "New Space Mobile Innovation"

as it is designed for new constellations, and its disruptive technology streamlines and ensures a smooth and fast licensing process. This software is based on our already recognized Beam Budget product, which helps with Link Budget Calculations. The second award went to our CleanRF product, which was recognized with the "Teleport Technology of the Year" award by the World Teleport Association (WTA), for being the best interference canceller available on the 5G Satellite market. CleanRF is fully effective in real-time against jamming, accidental interference, and satellite/terrestrial interference, protecting the RF signal from any possible attack, and obtaining spectrum superiority. These two awards were received by the company's CEO, Alvaro Sanchez on behalf of the team formed by all the company's employees, recognizing their great effort and merit in obtaining them. Both awards, added to the five obtained by INTEGRASYS in previous years, demonstrate that the company is aligned with the current needs of the market, making sure to provide products that solve real problems of the customers.

#### **Inmarsat's Satellite Coverage in Asia Pacific Set to Double after Australian Ground Stations Go Live**

March 16, 2023 – Experts at Inmarsat, a world leader in global, mobile satellite communications, have successfully connected the company's I-6 F1 satellite to new ground stations in Western Australia. It marks a crucial milestone as the company upgrades its communications availability in the fast-growing Asia-Pacific (APAC) region. I-6 F1 launched in December 2021 and spent seven months travelling to geostationary orbit above the Atlantic, using its all-electric propulsion system. After rigorous in-orbit testing in the second half of 2022, the spacecraft is now at its final orbital slot above the Indian Ocean. The company will begin increasing its capacity and transition services to the new satellite throughout 2023, beginning with the first customers from Q2.

#### **Aitelecom/APCO Networks Partners with Astranis and ST Engineering iDirect**

March 16, 2023 - ST Engineering iDirect's leading Mx-DMA® MRC waveform technology will enable Mexican connectivity service provider Aitelecom/APCO Networks (Aitelecom) to support services on its new MicroGEO satellites that will be built by satellite manufacturer, Astranis Space Technologies (Astranis). The satellites and ground infrastructure will deliver critical connectivity for 4G cellular backhaul and enterprise services across Mexico and part of Central America. Deployed on Aitelecom's existing Dialog® platform, the services will be made available to hundreds of sites across the country and part of Central America. This agreement further strengthens the long-standing relationship between ST Engineering iDirect and Aitelecom and creates a roadmap for the future which will see the companies evolve together to meet Aitelecom's current and future requirements.

#### **Comtech Awarded \$29 Million for Blended Communications Technologies and Location Services**

March 16, 2023 – Comtech has announced that Al Yah Satellite Communications Company PJSC (Yahsat) has awarded the company \$29 million to deliver communications technologies and location services that will operate on Yahsat's Thuraya 4-NGS satellite constellation. Under this contract, Comtech will design, develop, install, integrate, and test communications and location-based technologies for Yahsat's Location Tracking Services Platform and User Terminals. Comtech's offerings will help enable blended communications and enhanced location-based services for end users of Yahsat's network. Comtech's communications capabilities and location-based services, including those provided to Yahsat, are designed to support the convergence of global communications infrastructures. With the merging of space, satellite, terrestrial, and wireless technologies, Comtech is uniquely positioned to enable hybrid network infrastructures that can open the door to a nearly endless number of applications and deliver connectivity to locations that have historically been underserved or unconnected.

#### **mu Space and OneWeb Partner to Distribute OneWeb Capacity in Mainland Southeast Asia**

March 15, 2023 – OneWeb, the low Earth orbit satellite communications company, and mu Space and Advanced Technology Co., Ltd. ("mu Space"), the aerospace manufacturer and satellite internet service provider, today announced a multi-million, multi-year deal to deliver OneWeb's low Earth

orbit (LEO) connectivity solutions across mainland Southeast Asia, also known as Indochina, which includes Thailand, Laos, Cambodia, Vietnam and Malaysia. As one of OneWeb's growing network of Distribution Partners, mu Space will distribute to enterprises with applications in remote communities, land mobility, select maritime opportunities and backhauling meeting a wide range of customer needs. This transaction enables mu Space to support the digital transformation of many sectors by giving high-speed access to digital information, productivity tools and cloud services. This agreement will also help enhance critical communications for remote government and community services. Following on from the rapid momentum of 2022, OneWeb remains committed to providing LEO services and meeting the various needs of customers globally and this agreement expands OneWeb service footprint in Indochina.

### **Comtech Successfully Tests and Validates 5G Connection over Satellite**

March 15, 2023 – Comtech in collaboration with three global technology leaders: Cloud Signals, Hellas Sat, and a leading Mobile Network Operator (MNO), have successfully tested and validated 5G connectivity over a satellite network in Greece. During the demonstration, a commercial 5G node was connected to the leading MNO's 5G testbed network and relayed over a satellite link provided by the Hellas Sat. Comtech's technology leadership was a significant enabler for this breakthrough demonstration, which included its ELEVATE Very Small Aperture Terminal solution that delivered high speed backhaul services for the 5G satellite-based connection.

### **Inmarsat and Heron to Enable Uncrewed Aircraft in Singaporean Airspace**

March 15, 2023 – Inmarsat has welcomed Singapore-based Heron AirBridge, a specialist in Uncrewed Aircraft System Traffic Management (UTM) in the Asia Pacific region, as the latest company to join its Velaris Partner Network, following a MoU signed today at Drones Asia. Working alongside regional regulators, the two companies will enable the safe integration of uncrewed aircraft into Singapore's commercial airspace by integrating Inmarsat Velaris, a highly reliable command and control (C2) datalink built for UAVs, with Heron's AirBridge, a complete and flexible UTM system. Inmarsat will also supply Heron with its low size, weight, power, and cost (SWaP-C) Velaris satellite terminals for UAVs, delivering the secure datalink needed for Beyond Visible Line of Sight (BVLOS) operations. The collaboration will mark the first deployment of Velaris technology in Asia Pacific and trials will commence later this year. In tandem, Inmarsat and Heron will leverage the Velaris Partner Network, working with stakeholders across the aviation community to develop regulatory frameworks and technologies that will boost Uncrewed Aerial Vehicle (UAV) numbers in Singapore's airspace and provide a blueprint for successful integration that can be rolled out worldwide.

### **Intellian Announces the Second Member of Intellian's Family of WGS Terminals**

March 15, 2023 – Intellian Technologies Inc., a leading global provider of feature-rich, resilient satellite communications solutions, unveiled their ARC-M4 Block 1 terminal at Satellite 2023. Providing simultaneous X- and Military Ka-bands plus all commercial Ka, the Block 1 marks the next extension of Intellian's Wideband Global SATCOM (WGS) certified products. WGS is a high-capacity United States Space Force satellite communication system, developed by the US Department of Defense and now includes partnerships with Canada, Australia, The Netherlands, New Zealand, and other member nations. WGS Phase 1 testing has been completed and the terminal is expected to be approved for use on the WGS constellation by Q2 2023. Intellian's ARC-M4 Block 1 is a tri-band terminal for X-band, MIL Ka-band and ultra wide 2.5GHz commercial Ka-band networks. Naval customers can utilize simultaneous X-band and Ka-band transmit and receive when operating on a WGS satellite, giving unprecedented layers of resilient connectivity and throughput for mission critical operations. ARC-M4 stands for Advanced Resilient Communications, Multi-mission, multi-role, multi-band and multi-orbit. It's designed for operation on LEO, MEO, GEO and HEO satellite orbits.

### **MEASAT Selects the Hughes JUPITER System to Help Connect the Unconnected across Malaysia**

March 14, 2023 – Hughes Network Systems, LLC announced that MEASAT Global Berhad has selected

the Hughes JUPITER™ System ground platform to enable broadband services on the MEASAT-3d High-Throughput Satellite (HTS). MEASAT-3d will leverage the JUPITER System gateway and terminals to extend its CONNECTme NOW satellite broadband services throughout Malaysia. Launched on June 22, 2022, MEASAT-3d increased the company's broadband capacity ten-fold – from 3 Gbps to 30 Gbps. Now powered by the JUPITER ground system, the new satellite delivers broadband service with download speeds of up to 100 Mbps. Widely used across the industry, the Hughes JUPITER System is the de facto standard for satellite implementations worldwide with features that yield higher bandwidth efficiency and lower service cost for operators than other satellite ground systems. The latest JUPITER technology incorporates software-defined satellite networking, dynamic inroute reconfiguration for the highest possible efficiency, and a new "system on a chip" in every user terminal that can support increasingly high speeds and a variety of services.

### **SES Certifies Gilat's SkyEdge IV Platform for O3b mPOWER, O3b and SES-17**

March 14, 2023 – Gilat Satellite Networks Ltd, a worldwide leader in satellite networking technology, solutions, and services, announced today that SES has certified the SkyEdge IV platform for O3b mPOWER, O3b, and SES-17. By virtue of this certification, Gilat's high-speed, highly reliable next generation SkyEdge IV platform is now the industry's first GEO-MEO multi-orbit certified system.

### **Intelsat to Operate Air Pollution Monitoring Space Instrument**

March 14, 2023 – Intelsat completed testing of the operational and data collection system for the first space-based instrument to monitor major air pollutants across the North American continent every daylight hour at high resolution. The new UV-visible spectrometer, operated by Intelsat for NASA and the Smithsonian Astrophysical Observatory, will be hosted on the Intelsat 40e (IS-40e) satellite set for launch next month. Known as TEMPO (Tropospheric Emissions: Monitoring of Pollution), the mission of the instrument is to create a revolutionary new dataset of atmospheric chemistry measurements from space. TEMPO data will play an important role in scientific studies of phenomena such as rush-hour pollution and the movement of emissions from forest fires and volcanoes. Scientists could eventually apply TEMPO observations to air quality alerts for people in pollution hot spots and those living with health issues.

### **Intellian and SES to Develop and Deploy Two New SES O3b mPOWER Customers Terminals**

March 14, 2023 – Intellian Technologies, Inc. and SES have announced two new customer user terminals designed exclusively for SES's O3b mPOWER communication system. The new mP85 and mP240 are designed for SES's telecommunications, enterprise and cloud customers, with an expected delivery later this year. With O3b mPOWER's high throughput, predictable, low latency and high availability services, SES customers will be able to enjoy unrivalled network performance network, support their most critical operations and grow their revenue streams. The mP85 is an 85cm, single fast retrace parabolic user terminal. It will enable satellite handovers without the need for a secondary antenna, resulting in reduced footprint and power requirement for SES's customers. The larger mP240 is a 2.4m antenna designed to bring high-speed, up to multi-Gbps connectivity to a large volume of simultaneous users such as remote communities where they require enhanced bandwidth performance, or a better quality of service replacing poor or non-existent terrestrial communication methods.

### **Intelsat Selects NOVELSAT to Power High-Performance Networks**

March 14, 2023 - NOVELSAT, a global leader in content connectivity, announced today that Intelsat, operator of one of the world's largest integrated satellite and terrestrial networks, has selected NOVELSAT's satellite connectivity technology for high-performance networks. Intelsat will utilize NOVELSAT's satellite modems to supply high-speed trunking and backhaul connectivity for wireless and wireline networks. This collaboration allows Intelsat to further strengthen its AgileCore UX offering, a performance-optimized trunking solution that integrates high performance and reliability with managed wireless WAN optimization. By utilizing NOVELSAT's high-speed satellite technology,

Intelsat can enhance the performance and capabilities of its network, to meet the ever-increasing demands of its customers. NOVELSAT satellite modem technology boasts advanced capabilities, including NOVELSAT DUET™ bandwidth reuse technology and NOVELSAT NS4™ bandwidth-efficient waveform, which deliver unparalleled transmission speeds and maximum spectral efficiency. NOVELSAT modems are also equipped with powerful networking capabilities, high interference resiliency, and a comprehensive management system, ensuring maximum performance and reliability for high-value communication applications.

#### **Inmarsat and RBC Signals Complete Successful Live Testing of Dynamic Spectrum Leasing Solution**

March 14, 2023 – Inmarsat has announced that RBC Signals will be the first partner to resell its innovative IoT Connectivity Leasing solution. The agreement follows the successful testing of the solution, which enables the dynamic provision of satellite connectivity depending on changing customer needs. The proposition will enable customers of RBC Signals to create their own virtual satellite network by leasing a private slice of Inmarsat’s ELERA L-band network, which is optimised for the Internet of Things (IoT). RBC Signals’ customers will now be able to choose how often and exactly when they require satellite connectivity, paying only for what they need rather than being tied into a long-term leasing contract that could result in underutilised resource. RBC Signals’ customers will also have access to the added security of a hardened private network, ensuring a highly secure and reliable platform for end-users. The successful on-air testing has shown partners can rapidly change beam coverage to meet the individual connectivity needs of businesses. This will support hourly visibility of key assets across rail networks to enable better supply-chain management, or twice weekly control and monitoring of water irrigation systems within the agriculture industry.

#### **AST SpaceMobile Announces Collaboration with Saudi Telecom Company**

March 13, 2023 – AST SpaceMobile, Inc. announced the signing of a non-binding memorandum of understanding (“MoU”) with Saudi Telecom Company (“stc”), a leading telecommunications provider in Saudi Arabia. The two companies signed the MoU during Mobile World Congress Barcelona, with the goal of developing innovative telecom solutions and satellite-based digital services that could improve mobile service accessibility. AST SpaceMobile’s mission is to eliminate the connectivity gaps faced by today’s five billion mobile subscribers and finally bring broadband to the billions who remain unconnected. The company has entered into agreements and understandings with mobile network operators, who collectively have over 2 billion mobile subscribers.

#### **OneWeb Announces Global Agreement with AWS**

March 13, 2023 – OneWeb announced that it signed a letter of intent with Amazon Web Services EMEA SARL (AWS), a leading cloud platform, to explore providing cloud-based connectivity and the delivery of innovative services to customers worldwide. OneWeb and AWS will work together to expand both horizontal and vertical services to provide customizable and integrated solutions for edge-to-edge operations. Teaming-up global satellite broadband connectivity with AWS cloud services and edge computing capabilities, OneWeb can create a more sustainable, competitive offering and deliver advanced connectivity to a vast array of customers around the globe. The ambition is to provide a fully integrated satellite constellation management solution as a service to the public and satellite community. Working together to innovate, develop, and enhance industry and cloud solutions, OneWeb and AWS will aim to create the next generation of virtual network functions focused on bringing LEO connectivity to customers and communities around the globe.

#### **Kymeta Ships First Flat Panel Antennas for OneWeb’s LEO Network, Marking Major Milestone in Partnership**

March 13, 2023 – Kymeta, a world leading flat panel satellite terminal company, today announced at SATELLITE 2023 that they completed the first shipment of its electronically steered Hawk™ u8 OneWeb LEO terminal, through its partnership with OneWeb, the low Earth orbit (LEO) satellite communications company. Kymeta is the first to commercially deliver electronically steered user

terminals for OneWeb's LEO network. Kymeta is continuing to ramp its production to meet the overwhelming pent-up demand. With the vast unmet demands for ubiquitous broadband and growth in portable and mobile communications requirements across major industries globally, Kymeta and OneWeb's partnership aims to fill these needs. Kymeta user terminals are available for fixed applications and will soon be available for communications on the move for land and sea. Today's commercial milestone marks the beginning of new solutions and opportunities to better serve the needs of customers around the world.

### **Intellian Unveils Latest Flat Panel Terminals at Satellite 2023**

March 13, 2023 – Intellian Technologies Inc., a global provider of resilient multi-constellation, feature-rich satellite user terminals and communications solutions, unveils their latest Electronically Scanned Array (ESA) technology at Satellite 2023, in Washington, D.C. Intellian's flat panel user terminal portfolio includes solutions designed to operate across fixed enterprise, land mobility, maritime, government and defence sectors. The full-duplex ESA user terminal will operate on the OneWeb satellite network, with production slated to commence in Q3 2023. Intellian's ESA product design focus has been on optimization of size, weight, power and cost so they can provide seamless connectivity for remote communities and minimal infrastructure, through to cellular backhaul solutions and installations on critical first responder vehicles. The full-duplex user terminal, OW11FL, features a low profile weatherized antenna designed to deliver high reliability and performance to Enterprise customers. Paired with the CNX-WiFi indoor unit, the OW11FL delivers the ideal solution for enterprise, community broadband, and civil government applications. The innovative modular ESA user terminal, designed by Intellian's industry leading in-house engineers, has enabled parallel development of a half-duplex user terminal, and will facilitate rapid development of other configurations and form factors to address alternative markets and use cases including a military man-pack, also on display at Satellite 2023.

### **Cobham Satcom to Roll out O3b mPOWER Transportable Terminals for SES**

March 13, 2023 – Cobham Satcom, a leading global provider of radio and satellite communications solutions to the maritime and land sectors, and SES announced a contract for a range of O3b mPOWER-enabled Communications on the Pause (COTP) terminals. The contract consists of Cobham Satcom's rugged, man-portable LEO/MEO/GEO capable TACTICAL TRACKER terminal series ranging from 1.35 to 2.64 meters and the widely successful EXPLORER 8120 vehicle mount tracking antenna. The TACTICAL TRACKER Terminal serves the Government and Defense segment, while Government agencies, carriers, and enterprise customers utilize the EXPLORER terminals for service augmentation and restoration. The active tracking TACTICAL TRACKER terminals will enable seamless connectivity across SES's multi-orbit network of Geostationary (GEO) and MEO satellites, with forward compatibility on SES's new MEO system O3b mPOWER, as well as SES's second-generation high-throughput low-latency constellation. The O3b mPOWER system represents a tremendous step forward in communication satellite capabilities, providing unprecedented flexibility and throughput. The new terminals expand Cobham Satcom's O3b mPOWER terminal portfolio, joining the recently certified Sea Tel 2400 Tri-band terminal for the energy market.

### **Eutelsat and Intelsat Sign Multi-Orbit Contract Enhancing Connectivity with OneWeb Services**

March 9, 2023 – Eutelsat Communications has signed a multi-orbit agreement with Intelsat to enhance connectivity solutions over Europe, the Middle East, and the Pacific, including OneWeb services. Under this new seven-year multi-million-euro capacity agreement with a progressive roll-out of assets over 2023, leveraging Eutelsat's High-throughput satellites (HTS) in the Ku-band including the recently launched EUTELSAT 10B satellite and OneWeb's constellation, Intelsat will be able to offer connectivity solutions for air, land and sea. This deal cements a proposed deal previously announced on the EUTELSAT 10B satellite in October 2019 between Eutelsat and Gogo Commercial Aviation, acquired by Intelsat in 2020. The new capacity agreement adds OneWeb's LEO (low-Earth orbit) solution to a larger portion of Eutelsat's HTS GEO (geostationary orbit) assets



(EUTELSAT 172B, the coming EUTELSAT 10B, and the future Flexsat), creating a unique hybrid offer that provides Intelsat with enhanced connectivity capacities. Customers worldwide will be able to benefit from a seamless ubiquitous connectivity service enabled by the combination of the GEO and LEO assets of the three entities: Eutelsat's and Intelsat's GEO fleets coupled with OneWeb's groundbreaking LEO network.

#### **UZ-SAT Chooses Hughes JUPITER System to Help Bridge the Digital Divide**

March 9, 2023 – Hughes Network Systems, LLC announced that "UZ-SAT", JV LLC (UZ-SAT), a joint venture among "Uzbektelecom" JSC, "Satellin Group" LLC and private enterprise in the Uzbekistan Republic, has chosen the Hughes JUPITER™ System ground platform to power satellite solutions to help close the digital divide. UZ-SAT will employ JUPITER System gateways and terminals to bring broadband connectivity over geostationary satellites in the region to remote and rural parts of the country for the first time. The de facto standard for satellite implementations, the Hughes JUPITER System operates on more than 75 satellites globally to enable multiple services, including consumer internet, enterprise networking, cellular backhaul and community Wi-Fi hotspots. System features include private cloud-delivered network management, dynamic traffic load balancing across gateways and data centers, and smart software for orchestration and management – all to meet operator needs for high performance and scalability.

#### **Gilat Signs Definitive Agreement to Acquire DataPath**

March 9, 2023 – Gilat Satellite Networks Ltd. has signed a definitive agreement to acquire DataPath, Inc. (DPI), which will be a core component of Gilat's Defense growth strategy. DataPath is a market leader in trusted communications for the US DoD Military and Government sectors. The acquisition is another step in Gilat's initiative to increase its presence in the growing Defense market. Gilat expects its annual revenues in the Defense sector to increase by approximately \$50 Million following the closing of the acquisition..

#### **Orange and OneWeb Signs Agreement to Enhance and Expand Global Connectivity**

March 8, 2023 – OneWeb and Orange S.A. (Orange), one of the world's leading telecommunications operators, today announce they have signed a distribution agreement to expand connectivity services across Europe, Africa, Latin America, and other global regions. The news comes as governments across the world prioritise the development of digital infrastructure networks post-COVID. With this partnership, Orange will offer enriched connectivity, integrating OneWeb's LEO technology, to enterprise customers and telco operators in different regions of the world. OneWeb's LEO technology will therefore complement existing services and enable connectivity to hard-to-reach areas which previously could not be served with an enhanced latency. With OneWeb's technology Orange offers a range of multi-orbital solutions complementing our forty years of experience in satellite connectivity to benefit small, medium and large enterprises, telco operators, and Internet Service Providers.

#### **Navarino and Cobham Satcom Enhance Strategic Partnership**

March 7, 2023 – Navarino, one of the maritime industry's most advanced communications and connectivity companies and Cobham Satcom, the leading provider of radio and satellite communication (satcom) solutions to the global maritime and land mobile sectors have extended their strategic partnership based on integration of next generation SAILOR XTR antennas with Navarino's global connectivity services. Navarino, the world's largest Inmarsat Fleet Xpress Value Added Reseller, also offers a full portfolio of Ku-Band solutions leveraging networks from Intelsat and SES. With Cobham Satcom as a strategic partner, Navarino's ability to deliver the most advanced technology solutions to the merchant maritime fleets it serves worldwide will be boosted with access to both Ka- and Ku-band antennas from the expanding SAILOR XTR portfolio.

### **neXat Establishes Maritime Division to Offer Better Connectivity at Sea**

March 7, 2023 – Growing demand for better connectivity at sea will be answered with the creation of a Maritime division by the company behind the world’s first satellite capacity aggregation platform. neXat’s new Maritime Unit will offer satcom installations on a variety of boats and on-board IT services including radar, Video Graphics Array (VGA), and Digital Visual Interface (DVI) cabling. The unit will be headed up by the former owner of Belgosat, Mario Alen, and is part of neXat’s Operations department, led by Founding Partner & Chief Operations Officer Caroline De Vos.

### **Kratos Partners with XipLink to Deploys Satellite Network Acceleration as Software on the OpenSpace Platform**

March 2, 2023 – Kratos Defense & Security Solutions, Inc. is partnering with XipLink, Inc. to enable its market leading network acceleration product, XipOS, as an orchestrated, cloud-native software module running on Kratos’ OpenSpace dynamic satellite ground platform. Widely used across the communications industry, XipOS enhances the user experience by dramatically improving link utilization and network efficiency while reducing latency effects, improving response time by 30% or more. In terrestrial and wireless networks, XipOS is typically deployed as software, maximizing flexibility, scalability and responsiveness while also reducing CAPEX costs. In satellite networks, however, XipOS has traditionally been installed as separate, dedicated hardware. That is because satcom networks are still trapped in purpose-built, hardware-based architectures, rather than the modern, software-defined networks common in the rest of the communications industry. Kratos’ OpenSpace Platform changes all that. The partnership with XipLink is a case in point. OpenSpace Platform users will now benefit from orchestrating XipOS immediately, on demand as a fully integrated component of their end-to-end satellite network, from the gateway all the way to the terminal at the network’s far edge.

### **Globe and Lynk Make History with First-ever LEO Satellite to Mobile Connectivity Trial in PH**

March 2, 2023 – The Globe and Lynk teams witness the signal coming from Lynk satellite via spectrum analyzer. Leading digital solutions platform Globe has made history by becoming the first company in the country to test Low Earth Orbit (LEO) satellite connectivity for Short Messaging Service (SMS) and emergency alerts in partnership with global firm Lynk Global. During the field trial, which took place in Bataan from February 16 to 20, 2023, standard mobile phones connected directly to Lynk’s LEO satellites and successfully sent and received text messages. The satellite was also able to broadcast an emergency message to the phones registered to the Lynk network. This breakthrough technology is expected to augment Globe's existing terrestrial networks and provide cellular connectivity to more Filipinos in geographically isolated and disadvantaged areas. In April of this year, Lynk will launch its global commercial service providing periodic SMS services and cellular broadcast emergency alerts that are roaming-like from a network and user perspective. Over time, Lynk's service will become seamless and add more services, such as app-based messaging, voice, and data.

### **Hispasat and Gilat Expand Strategic Partnership with the Selection of Gilat’s SkyEdge IV Platform for Amazonas Nexus**

March 2, 2023 – Gilat Satellite Networks Ltd. announced that Hispasat selected Gilat’s SkyEdge IV platform for operation with its highly flexible and efficient Amazonas Nexus satellite. This marks an expansion of the strategic partnership between the two companies that will enable Hispasat to deliver high-performance, satellite-based fixed data and mobility services. SkyEdge IV, Gilat’s next generation platform, is designed to operate with new, adaptable, highly flexible, high throughput and very high throughput satellites (HTS/VHTS) to provide end-users the required capacity where and when needed. Hispasat’s Amazonas Nexus high throughput satellite features a cutting-edge Digital Transparent Processor (DTP) that allows it to increase its geographic coverage and capacity flexibility to adapt to any changes to its initially proposed business scenarios. The satellite will cover all of the Americas, Greenland, and the North and South Atlantic corridors.

### **C-COM Antennas Receive Intelsat Flex Approval**

March 1, 2023 – C-COM Satellite Systems Inc., the leading global provider of mobile auto-deploying satellite antenna systems, today announced that it has received formal qualification for its iNetVu® series antenna products from Intelsat. Intelsat is one of the world's largest integrated satellite and terrestrial network operators and leading provider of inflight connectivity (IFC). The company operates 50+ satellites that provide coverage to 99% of the world's populated regions. The C-COM manufactured iNetVu® mobile satellite antenna systems are now officially qualified to operate on Intelsat's FlexMove COTP (comms-on-the-pause) and FlexEnterprise satellite services. Intelsat FlexMove delivers an innovative, fully managed global mobile connectivity on-demand solution that seamlessly increases the reach, reliability, and redundancy of terrestrial networks while enabling a new generation of land mobile services for various applications. FlexEnterprise enables service providers to extend the reach of their enterprise solutions and add reliable, high-throughput connectivity to any location within the global Flex footprint.

### **Sure South Atlantic Picks Intelsat to Connect Three British Island Territories**

March 1, 2023 – Intelsat and Sure South Atlantic, an international telecommunications service provider, have signed an expanded agreement to enable Sure to improve the capability and reliability of communications for residents of the Falkland Islands, Saint Helena and Ascension Island in the South Atlantic Ocean. As the sole licensee providing communication services to the British Overseas Territories, Sure is leveraging Intelsat's AgileCore UX service to expand and deliver improved 4G connectivity, enterprise broadband, quality internet, public Wi-Fi, and streaming video for all residents, in addition to supporting connectivity for military and government operations. Intelsat's AgileCore UX is a high-speed trunking solution integrated with managed application optimization to deliver a superior experience to end users. Additionally, Intelsat's service in the Falkland Islands provides the capability to combine capacity from both Intelsat geosynchronous orbit (GEO) satellites and OneWeb low-Earth orbit (LEO) satellites allowing Sure to deliver added levels of network resiliency and performance based on user demand and application requirements.

### **VEON and OneWeb Partner to Deliver Seamless Communication and Digital Services**

March 1, 2023 – VEON Ltd. and OneWeb announced they are partnering to provide extended mobile internet connectivity and digital services in emerging markets. VEON Group's operating companies serve a vast geography that is home to more than 510 million people, including countries that have some of the lowest population densities in the world, uneven population distribution, internal migration patterns, rich economic resources in remote areas and disaster-prone regions. OneWeb partnership will further support VEON Group's "4G for all" and "humanitarian connectivity" focus, which has seen VEON's operating companies significantly increase their 4G coverage over the past 2 years, bridge the digital divide for millions of users, respond to disasters and unlock economic growth in their markets. OneWeb's LEO network has substantive capabilities to deliver high-speed, low-latency connectivity to governments, businesses and communities. To-date, the business has launched 544 satellites into orbit, 80 per cent of its satellite constellation, which will deliver global coverage when completed in 2023. OneWeb's services work seamlessly with mobile communication infrastructure to enable satellite backhaul to be integrated into mobile networks. OneWeb additionally enables operators to expand 3G, 4G, LTE, and 5G networks into underserved or unconnected communities, particularly those in hard-to-reach places.

## **BROADCAST**

### **TAP Digital Media Contracts Additional Video Capacity on ABS-2**

March 27, 2023 – TAP Digital Media Ventures Corporation (TAPDMV) has extended its satellite broadcast partnership with ABS by adding four further channels on ABS-2. The four SD Channels will be on the MCPC media platform on the ABS-2 C-band East Hemi beam offering the highest reliability for national TV networks and primary cable services. These channels are:

1. Premier Sports 2, home to PGA Tour & WTA Tour
2. Premier Football, for fans of Bundesliga and UEFA competitions
3. EdgeSport, a destination for Action Sports
4. Comic U, focused on Sci-Fi, Fantasy and Supernatural genres

Vincent Lim, MD of Asia Sales said, “ABS is proud to support TAPDMV’s growth in the Philippines and beyond. Our 3 year old partnership with TAPDMV has grown from initially downlinking sporting events to broadcasting 10 channels today in the Philippines using the superior coverage of the C-band East Hemi beam. We appreciate the trust that TAPDMV has placed in ABS and look forward to building our collaboration further to serve wider audiences with richer video solutions.” “TapDMV is pleased that we can once again rely on ABS to service the satellite distribution requirements of our 4 additional channels to our cable affiliates. They continue to be a reliable partner in the expansion of our Pay Television endeavors in the Philippines,” commented Gonzalo de Guia, Chief Technology Officer of TapDMV.

### **Eutelsat Selected by StarGroup to Enhance its Popular DTH Platform StarTV in Mexico**

March 15, 2023 – StarGroup, the leading telecommunications and entertainment service provider in Mexico, has once again selected Eutelsat Communications for StarTV, its Direct-to-Home (DTH) pay-TV service. Operating via Eutelsat since 2016, StarTV will continue to benefit from the exceptional coverage of Mexico at 117° West. Under this multi-year agreement, additional Ku-band transponders on EUTELSAT 117 West B will be used to further develop StarTV’s DTH services. The EUTELSAT 117 West B satellite, co-located with EUTELSAT 117 West A, has established 117° West as one of the premium broadcast neighbourhoods for Latin America over the past decade. Offering four regional Ku-band beams, it provides exceptional coverage of Mexico, Central America and the Caribbean, the Andean region and the Southern Cone, making it a prime choice for service providers and audiences across the region.

### **PCTV Scales up Video Services across Latin America with Multi-year Agreement on EUTELSAT 117 West A Satellite**

March 13, 2023 – PCTV, a subsidiary of Mexico’s leading cable operator Megacable Comunicaciones, has once again boosted its capacity on Eutelsat Communications’ EUTELSAT 117 West A satellite through a multi-year agreement. Further strengthening a decade-long partnership between PCTV and Eutelsat, this new agreement expands PCTV’s Video services from Mexico to countries across the entire Latin American region. PCTV is an innovative content producer and distributor, offering a wide range of integrated media solutions to accompany their clients. The company operates a Video distribution platform at 117° West, delivering TV channels to cable head-ends in Mexico and across Latin America. The new resources on EUTELSAT 117 West A will allow PCTV to provide a broader range of Video services, extending their current reach by accessing new and untapped markets. Eutelsat’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, over 92% of the 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 45 million TV homes. 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**

### **Unseenlabs to Launch Bro-9, its 9th Satellite Dedicated to Vessels Geolocation from Space**

March 29, 2023 – Unseenlabs, a world leader radio frequency data and solutions provider for maritime domain awareness, is announcing the coming launch of BRO-9, the 9th satellite of its constellation dedicated to the geolocation of all the vessels at sea. BRO-9 will be launched in April 2023 as part of Transporter-7 Mission aboard SpaceX’s launcher Falcon 9 from the Vandenberg Space Force Base in California. This launch is a step forward for the development of Unseenlabs. Unseenlabs

provides unmatched solutions for maritime surveillance, based on exclusive radio frequency data to allow the geolocation and characterization of any type of vessel anywhere around the globe. Many public and private customers (French Navy, NGOs, marine insurers, etc.) are already using these solutions.

### **Thales Alenia Space Wins Contracts for IRIDE Radar and Optical Satellites**

March 27, 2023 – Thales Alenia Space has won contracts from the European Space Agency (ESA) to supply a first batch of six small satellites with synthetic aperture radars (SAR) and one satellite based on optical technology for the Italian Earth observation constellation, IRIDE. This innovative new constellation, based on a number of different sensing instruments and technologies, will range from microwave radar imaging to optical sensors at various spatial resolutions and in different frequency ranges, thus becoming a pioneering space program in Earth Observation. The contract for the six SAR satellites is worth €112 million and includes an option on a second group of four satellites, worth €75 million. The optical satellite contract is worth €30 million, and includes an option on an additional satellite for €19 million. The satellites will be built in Italy under the responsibility of Thales Alenia Space and thanks to the contribution of the entire supply chain of SMEs in the space sector. It will provide valuable data not only to researchers studying the evolution of the environmental conditions of Italy but also to the Civil Protection and other Public administrations to counter hydrogeological instability and fires, protect coasts, monitor critical infrastructures, air quality and weather conditions. Finally, IRIDE will provide analytical data for the development of commercial applications by start-ups, small and medium-sized enterprises and industries in the geospatial sector.

### **Successful Launch of 36 OneWeb Satellites with ISRO/NSIL Marks Key Milestone to Enable Global Connectivity**

March 26, 2023 – OneWeb confirmed the successful deployment and contact of 36 satellites launched by NewSpace India Limited (NSIL), from the Satish Dhawan Space Centre (SDSC-SHAR) in Sriharikota, India. This is OneWeb's 18th launch, its third this year, bringing the total of OneWeb's constellation to 618 satellites. The OneWeb constellation design calls for 588 satellites for global coverage and additional satellites are planned for resiliency and redundancy. Thanks to today's successful launch the constellation is in place to soon deliver global services. By the year-end, OneWeb will be ready to roll out global coverage, enhancing its existing connectivity solutions that are already live in regions north of 50-degrees latitude as it brings new areas online by partnering with leading providers. This mission marks OneWeb's second satellite deployment from India, highlighting the strong partnership with NSIL and ISRO and OneWeb's commitment to provide connectivity across the length and breadth of India. Once activated, OneWeb's coverage solutions will bring secured connectivity to enterprises, towns, villages, municipalities and schools, including the most remote areas across the country.

### **Rocket Lab Successfully Launches 35th Electron Seven Days after Previous Launch, Sets New Company Record for Fastest Launch Turnaround**

March 24, 2023 – Rocket Lab USA, Inc. announced it has successfully launched its 35<sup>th</sup> Electron rocket from Mahia, New Zealand, deploying two multi-spectral Gen-2 satellites to low Earth orbit for BlackSky through launch services provider Spaceflight, Inc. The mission took place just seven days following the Company's previous Electron mission from Launch Complex 2 in Virginia, setting a new company record for fastest turnaround between Electron missions. The mission, named "The Beat Goes On," lifted off at 09:14 UTC, 24 March 2023 from Pad B at Launch Complex 1, Rocket Lab's private launch site on New Zealand's Mahia Peninsula. In addition to delivering BlackSky's satellites to orbit, Rocket Lab accomplished a successful ocean splashdown of Electron's first stage in an effort to make Electron the world's first reusable orbital small launch vehicle

### **Korean Start-up Innospace Launches Test Launch Vehicle Hanbit-TLV**

March 20, 2023 – Innospace, a Korean space start-up, announced that its suborbital test launch

vehicle, Hanbit-TLV, has been launched. The 8.4-ton thrust single stage hybrid rocket was fired from the Alcantara Space Center in northern Brazil on March 19. Innospace had attempted to launch Hanbit-TLV since December last year but had postponed it several times due to weather conditions and mechanical errors. The Hanbit-TLV, the first civilian small satellite launcher in Korea, is a test project to validate the first stage engine of Hanbit-Nano, a commercial rocket for small satellites capable of carrying a 50-kilogram (110-pound) payload. Last year, Innospace signed an agreement with the Brazilian Department of Aerospace Science and Technology to launch the latter's inertial navigation system, called Sisnav, being carried onboard as a payload of Hanbit-TLV.

### **SES's Fourth and Fifth C-band Satellites for the United States Successfully Launched**

March 17, 2023 – SES announced today that the SES-18 and SES-19 satellites, designed and assembled by Northrop Grumman, were successfully launched by SpaceX's Falcon 9 rocket from Cape Canaveral Space Force Station in Florida, United States, at 7:38 pm local time on Friday, March 17. The two American-made satellites are the fourth and fifth – and final – satellites to be launched as part of SES's C-band transition plan, following the launch of SES-22 in June 2022 and the tandem launch of SES-20 and SES-21 in October 2022. These satellites are essential parts of SES's plan to achieve the Federal Communications Commission's (FCC) program to clear C-band spectrum to enable wireless operators to deploy 5G services across the contiguous U.S. (CONUS) while ensuring that SES's existing customers continue to enjoy uninterrupted TV, radio, and critical data transmission services to millions of Americans. Since 2020, SES, along with other satellite operators, has been clearing 300 MHz of C-band spectrum and transitioning customer services to the remaining allocated 200 MHz of spectrum by launching new satellites, building new ground stations and sending hundreds of satellite earth station technicians across the country to install new filters on customers' antennas. By providing contractual service protections to customers who receive video services in the U.S., SES-18 and SES-19 will enable SES to safely clear C-band spectrum to help accomplish the FCC's ambitious goals for American 5G innovation. SES-18 is expected to begin operations in June 2023 at 103 degrees West replacing SES-3 C-band payload and SES-19 will be co-located with SES-22 at 135 degrees West.

### **Rocket Lab Successfully Launches 34th Electron Rocket, Second Mission from Virginia**

March 16, 2023 – Rocket Lab USA, Inc. has successfully launched its 34th Electron rocket and second mission from its launch site on Wallops Island, Virginia deploying two spacecraft to low Earth orbit for Capella Space. The "Stronger Together" mission lifted off at 22:38 UTC, March 16 2023 from Rocket Lab Launch Complex 2 at Virginia Space's Mid-Atlantic Regional Spaceport within NASA's Wallops Flight Facility. Rocket Lab successfully deployed two 100-kg class Capella Space satellites to low Earth orbit. Rocket Lab's next scheduled mission is a dedicated launch for Spaceflight Inc. customer BlackSky, a leading provider of real-time geospatial intelligence and global monitoring services. The mission is scheduled to lift off from Launch Complex 1 in New Zealand during a launch window that opens in March 2023. Other upcoming disclosed Electron missions in 2023 include two launches for the NASA TROPICS constellation, the first of five dedicated missions for Internet-of-Things (IoT) connectivity provider Kinéis; several additional launches for Capella Space, and the launch of a mission to demonstrate space debris removal technology by Astroscale Japan.

### **Arianespace Awarded New Vega C Launches for the IRIDE Programme**

March 14, 2023 - Arianespace announced having signed with ESA, who is acting on the behalf of the Italian government, for the procurement of two Vega C launches. The contract also includes an option for a third dedicated launch. These launches, scheduled for the last quarter of 2025 onwards from the Guiana Space Center (CSG), will support the deployment of the future Earth Observation constellation IRIDE. This new contract also demonstrates the versatility and competitiveness of the new European light launcher Vega C, whose backlog has now grown to 15 launches. The Vega C is an upgraded variant and is perfectly suited to serve the Earth observation market because of its higher performance and versatility. The Vega C is an ESA program carried out in cooperation between public

institutions and private industry across 12 European partner states. AVIO SpA (Colleferro, Italy) is the prime contractor of Vega C, responsible for the development of the launcher system and delivering to Arianespace a launcher “ready-to-fly” at the Guiana Space Center. IRIDE is an end-to-end system composed of constellations of LEO satellites (Upstream Segment), the ground-based Operations infrastructure (Downstream Segment) and a range of Services to be delivered to the Italian Public Administration (Service Segment). The constellation will be based on different sensing techniques and technologies, encompassing Synthetic Aperture Radars, SAR, imaging as well as optical imaging, from medium to high resolution and in many different frequency ranges.

### **L3Harris to Design and Build NOAA's Next-Generation Geostationary Weather Imager**

March 14, 2023 – L3Harris Technologies announced today a \$765 million contract from NASA to design and build the next-generation, high-resolution imager for NOAA’s Geostationary Extended Observations satellite system. The GeoXO Imager will provide advanced visible and infrared imagery, more precise observations and improved water vapor measurements to significantly improve the accuracy and timeliness of weather forecasting in the Western Hemisphere. The addition of two new spectral bands and enhanced spatial resolution will improve space-based severe weather monitoring as well as short-term weather predictions and wildfire tracking. Slated to begin launching in 2032, the GeoXO mission will provide the mainstay of NOAA’s geostationary observation through 2055. From space to ground, L3Harris provides the Advanced Baseline Imager for space-based data collection on NOAA’s GOES-R mission, as well as the GOES-R enterprise ground system providing downlink, data processing and distribution, and command and control of the four-satellite GOES-R constellation.

### **OneWeb Confirms Successful Deployment of 40 Satellites Launched with SpaceX**

March, 9, 2023 – OneWeb confirmed the successful deployment and contact of 40 satellites launched by SpaceX from Cape Canaveral Space Force Station in Florida. This launch is OneWeb’s 17th to-date and the penultimate mission as the company is set to complete its first-generation (Gen 1) LEO satellite constellation and enable global coverage in 2023. With 582 satellites now in orbit, OneWeb will complete global footprint of its Gen 1 constellation with a launch set to take place later this month with ISRO/NSIL. Today’s launch enables OneWeb to continue expanding its connectivity capabilities as it grows its fleet of satellites and seeks to initiate services for more partners around the world. OneWeb already has connectivity solutions active today in key geographies across the globe and is bringing new areas online by partnering with leading providers including VEON, Orange, Galaxy Broadband, Paratus, Telespazio, and more. OneWeb and its partners are relentlessly focused on the mission to bridge the digital divide and provide internet connectivity to a greater number of unconnected and underserved rural and remote communities and businesses.

### **Thales Alenia Space Signs Contract with European Commission and Announces Kickoff of EuroHAPS Project for the Demonstration of Stratospheric Platforms**

March 9, 2023 – Thales Alenia Space has signed a €43 million contract for the EuroHAPS (High-Altitude Platform Systems) demonstration project and announces its kickoff. EuroHAPS was selected by the European Commission on July 20, 2022 after a call for collaborative defense research and development projects from the European Defense Fund (EDF). Thales Alenia Space is coordinating the European consortium of 21 partners, and 18 subcontractors, from 11 countries handling the project. EuroHAPS aims to develop several stratospheric demonstrators for missions designed to improve intelligence, surveillance and reconnaissance (ISR) and communications capabilities. The main project partners are CIRA, Elettronica and Leonardo from Italy, ONERA and CEA from France, INTA from Spain, and ESG with TAO from Germany.

### **Maxar Awards L3Harris Large Deployable Reflectors Contract**

March 8, 2023 – L3Harris Technologies today announced a contract from Maxar Technologies to design and build reflector antennas for two geostationary communication satellites. L3Harris today announced a contract from Maxar Technologies to design and build reflector antennas for two

geostationary communication satellites. The two nine-meter unfurlable mesh reflector antennas will provide high-power signals and improved service quality across the satellites' coverage areas. Similar to an umbrella, the flexible architecture of the antenna makes it collapsible, lightweight, compact and easy to integrate onto nearly any spacecraft configuration. The high-performance reflector antennas, to be built in L3Harris' Palm Bay, Florida facilities, feature an L3Harris-proprietary, gold-plated mesh-reflective surface that, coupled with a unique design, maximizes antenna gain and provides improved performance required for mobile media services. Since 1979, L3Harris has delivered more than 100 large deployable reflectors, leading the market and pushing the boundaries of space antenna technology.

## EXECUTIVE MOVES

### **Avanti Communications Strengthens Leadership Team**

March 13, 2023 – Avanti Communications (“Avanti”) today strengthens its senior leadership team adding two new members to the Executive Committee. Donald Walker, Senior VP of Government and Defence and Marios Fotiou, Senior VP of Solutions Engineering and Delivery join Avanti's executive team with immediate effect. Following 16 years of combined service, these appointments recognise the contribution Donald and Marios have made to the business as Avanti pursues ambitious growth targets for 2023. Donald Walker joined Avanti in 2017, where he was responsible for developing and delivering services in support of military customers and for growing Avanti's Defence business in the US, Europe, Africa and the Middle East. Significant partnerships were formed under Donald's leadership that allowed Avanti to create and grow a Defence business that delivers critical communications support to military and Government users across EMEA. Based out of Cyprus, Marios will oversee the Solutions Engineering & Delivery Department across all of Avanti's offices, including London, Goonhilly, Cyprus, Nigeria, South Africa and Kenya. As Senior VP, he will be responsible for ensuring Avanti provides the best-in-class engineering and support to customers.

### **Sidus Space Names Eric Gillenwater as Chief Commercial Officer**

March 1, 2023 – Sidus Space, Inc., a Space-as-a-Service company focused on mission-critical hardware manufacturing combined with commercial satellite design, manufacture, launch, and data collection, has appointed Eric Gillenwater to the role of Chief Commercial Officer (CCO), leading the company's commercial strategy and implementation to further support its overall mission of “Bringing Space Down To Earth™”. With over 20 years of experience in technology and business strategy development, Gillenwater has a proven track record of driving revenue growth and profitability through effective commercial strategy development and execution. Most recently, Gillenwater served as Vice President and Business Head, Global Carrier & Enterprise for OneWeb, where he was responsible for all aspects of global commercial strategy and operations across multiple verticals. Prior to OneWeb, Gillenwater served as Vice President and Business Head, US and Europe for Bharti Airtel, where he was responsible for full operational and revenue control over direct and channel sales for Bharti Airtel US and Bharti Airtel Europe.

## REPORTS

### **NSR Releases Maritime Connectivity, 11th Edition Report**

March 28, 2023 – NSR's *Maritime Connectivity, 11th Edition* report offers valuable insights and analysis, helping industry stakeholders understand market dynamics and capitalize on growth opportunities in maritime SatCom markets. Focusing on the impacts from Non-GEO systems such as the 'new entrants' of Starlink, OneWeb, and mPower this edition explores the role of GEO vs. Non-GEO (NGSO) connectivity in the maritime SATCOM markets. Building from a regional and segment level view, the report is broken down into 5 vessel types – Merchant, Passenger, Offshore, Fishing, and Leisure. Each segmentation provides insight into In-service units, retail revenues, capacity



demand and revenue. Overall, as more capacity choices come online over the next ten years Maritime SATCOM players will need to have a carefully crafted capacity strategy in place to optimize revenues and meet customer demands.

## UPCOMING EVENTS

**AVIA Future of Video India**, April 13, Mumbai, India, [https://avia.org/all\\_events/future-of-video-india-2/](https://avia.org/all_events/future-of-video-india-2/)

REGISTRATION LINK:

<https://form.jotform.com/230029136189455/prefill/63b5056f6234369c806ccb38a47d>

**Discount code for APSCC members: FOVPNRS**

**Space Symposium 2023**, April 17-20, Colorado, USA, [www.spacesymposium.org](http://www.spacesymposium.org)

**DefSat-2023**, April 27-28, New Delhi, India, <https://www.defsatindia.com/>

The growing importance of space for both commercial and military purposes has also led to significant shifts in the geopolitical landscape, as countries seek to establish or strengthen their presence and influence in this domain. These developments have led to an increased focus on space capabilities and technologies, as nations look to enhance their military capabilities and protect their interests in space. This has resulted in a growing demand for space-based assets and technologies such as satellites, launch vehicles, and ground control systems, as well as an increased focus on space research and development. With the traditional edge of existing space-faring nations being edged out by frequent and fast innovations, it is imperative to weave the cutting-edge of technology available in civil, commercial and military space domains in the application, operationalization and protection of military space capabilities.

**Space Tech Expo**, May 3-4, Long Beach, CA, USA, <https://www.spacetechempo.com/>

**Taiwan in View**, May 4, Taipei, Taiwan, [https://avia.org/all\\_events/taiwan-in-view/](https://avia.org/all_events/taiwan-in-view/)

**CABSAT 2023**, May 16-18, Dubai, UAE, <https://www.cabsat.com/>

**PITA 27th AGM & Business Forum Expo 23**, May 22-26, Port Moresby, Papua New Guinea, <https://www.pita.org.fj/events/event-1/>

**APSAT International Conference**, May 30-31, Jakarta, <https://apsat.assi.or.id>

**Satellite Industry Forum**, June 6, Singapore, <https://www.aviasif.com/>

**Asia Tech x Singapore 2023**, June 6-9, Singapore, <https://asiatechxsg.com/>

**Asia Satellite Business Week**, June 7-9, Singapore, <https://asiatechxsg.com/satelliteasia/>

**Australasia Satellite Forum 2023**, June 13-14, Sydney, Australia, <https://www.talksatellite.com/asf2023one.html>

**Asia Video Summit**, June 20-21, Hong Kong, <https://asiavideosummit.com/>

**World Satellite Business Week**, September 11-15, Paris, France, <https://wsbw.com/>

**IBC 2023**, September 15-18, 2023, Amsterdam, <https://show.ibc.org/>

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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.apsc.or.kr](http://www.apsc.or.kr).