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

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

INSIDE APSCC

APSCC 2022 Webinar Series Continues LIVE Tuesday 9AM HK l Singapore Time

The most frequent and largest ongoing virtual conference in the Asia Pacific satellite community – the APSCC 2022 Webinar Series incorporates industry veterans, local players, as well as new market entrants in a single event to reach a wide-ranging audience. The APSCC 2022 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. Register now and get access to the complete APSCC 2022 Webinar Series with a single password. To register go to https://apsccsat.com.

SATELLITE BUSINESS

Thaicom Signs Global Cloud Infrastructure Deal with AWS

March 31, 2022 – Thaicom announced that it has signed an agreement with Amazon Web Services, Inc. (AWS) to quickly and easily create, transform, and deliver Thaicom digital content. By leveraging AWS's global cloud infrastructure, advanced video technologies, and pay-as-you-go-model, Thaicom can produce high-quality video streams for distribution to its national and worldwide customers. Under the agreement, Thaicom and AWS will collaborate on building and deploying Thaicom's first cloud-based satellite TV broadcast distribution platform for Asia Pacific. The broadcast platform will consist of cloud services providing software-defined encoding, transcoding, and statistical multiplexing capabilities leveraging AWS Elemental media services. Thaicom is also using AWS to help establish its earth observation data analytics platform and to support Thaicom's new space economy initiative. Using AWS to help power the Thaicom data analytics platform will also help diversify Thaicom's reach across new verticals including government and private sectors in agriculture, maritime, energy, healthcare, and education. By working together, Thaicom and AWS can help Thaicom's customers easily ingest data from space and provide analytics from satellite imagery for business owners to leverage and make fast business decisions.

Marlink and Intelsat Extend Partnership to Increase Bandwidth Capacity for Maritime Customers

March 31, 2022 – Marlink has extended its partnership with Intelsat to offer increased Ku and C-band satellite connectivity to maritime customers in cruise and merchant shipping sectors. The agreement will see Intelsat assign capacity to the Marlink network providing a unique level of coverage in waters as far south as Antarctica as well as ocean regions around Africa and the Middle East. Marlink will derive the additional capacity from multiple assets, including Intelsat's high-throughput satellites. Marlink and Intelsat are longstanding partners in mobile maritime connectivity, with Intelsat supplying Ku-band GEO capacity to the Marlink hybrid network for over two decades acting as a cornerstone of Marlink's hybrid VSAT network.

SES Expands O3b mPOWER Partner Ecosystem with Comtech for Antenna Systems

March 30, 2022 – SES has announced that Comtech Telecommunications Corp is supplying antenna systems for its second-generation medium earth orbit (MEO) O3b mPOWER gateways. The antenna hardware comes in a range of sizes – from the 5.5 metre gateway intended for telemetry, tracking and control (TT&C) to smaller antennas for enterprise and government use. The antennas can also be deployed as customer gateways for O3b mPOWER. Based on a number of innovations, the new Comtech antennas are a significant improvement over the existing O3b gateways as the dual-drive X/Y antennas offer huge advantages over traditional Azimuth/Elevation systems.

Inmarsat Launches Fleet Xpress for Shipyards

March 29, 2022 – Inmarsat has made its market-leading maritime broadband service, Fleet Xpress, available to shipyards. Installed during new building, Fleet Xpress for Shipyards eliminates time-consuming and costly installation works in port, offering owners a pre-fitted very small aperture terminal (VSAT) solution included in the initial cost of the vessel. Inmarsat's newly-launched service enables delivery of Fleet Xpress capability to the shipyard during vessel construction. All terminals, cables, and below deck units are installed as a Fleet Xpress line-fit service, allowing the yard to deliver a one-stop solution to the owner that improves safety and offers fast and reliable connectivity from the first voyage.

SES to Enable European Maritime Safety Agency RPAS Operations via Satellite

March 29, 2022 – The latest contract awarded by the European Maritime Safety Agency (EMSA) will see the agency continue to use SES's high-performance satellite connectivity services for Remotely Piloted Aircraft Systems' (RPAS) operations, SES and EMSA announced today. Under the new agreement, SES's managed connectivity service will allow end-users to receive and exchange RPAS data in near real-time and support the operational needs of missions at sea. The new multi-year contract follows a previously-awarded agreement that enabled multiple EMSA missions with the guaranteed high-performance connectivity service for pollution monitoring, maritime safety and general maritime surveillance. Under the new framework agreement, SES will leverage its extensive government SATCOM Ku-, Ka- and military-Ka band capacity and ground segment to continue delivering connectivity services for EMSA's RPAS missions across multiple coastal regions of the European Union.

AXESS Networks Further Expands its Endeavors in the Kingdom of Saudi Arabia

March 25, 2022 – AXESS Networks (AXESS), a global leader of satellite-based communications solutions, reports that its local entity in Dammam in the Kingdom of Saudi Arabia reached above target results and operations will further expand to cater for the growing connectivity demand across the country. After founding "AXESS Saudi Arabian Telecommunications Company" (AXESS Saudi Arabia) AXESS has started Teleport operations in 2021. AXESS Saudi Arabia provides end-to-end managed satellite communications solutions designed to strengthen customer's operations in Saudi Arabia. AXESS Saudi Arabia utilizes satellite capacity from our long-term partner Arabsat in Ku-Band on the satellite BADR-5. The Teleport in Dammam is fully redundant and connected to different redundant terrestrial carrier.

Kymeta and IP Access International Sign Partnership Agreement to Deliver Next Generation Communication Solutions

March 23, 2022 – Kymeta and IP Access International have announced the signing of a partnership agreement to co-develop and distribute optimized solutions using Kymeta terminals, broadband and LTE services to first responders across North America. This agreement to deliver optimized solutions will combine Kymeta's resilient and cost-effective electronically steered flat panel technology with IP Access' experience building public safety networks for mobility and remote connectivity where it has not previously existed. It will utilize coverage and bandwidth on a jointly developed, multi layered broadband network optimized specifically for public safety customers. The Kymeta enabled solution

allows communication and interoperability among devices, further extending the reach of the IP Access RedPHONE service even if there is an internet outage due to malware or denial-of-service attacks.

SES Doubles High-value US Government Business with $450 Million Acquisition of DRS Global Enterprise Solutions

March 22, 2022 – SES S.A. today announces an agreement to acquire DRS Global Enterprise Solutions (GES), a US-based subsidiary of Leonardo DRS, for $450 million. On completion of the transaction, which is subject to completion of regulatory approvals expected to be completed during H2 2022, the GES business will be combined with SES Government Solutions (SES GS), a wholly owned subsidiary of SES, creating a scaled solutions provider serving the critical connectivity needs of the US Government. For over 20 years, DRS Global Enterprise Solutions has supported custom end-to-end satellite communications solutions for land, sea, and air operations for the US Government. The business is a leading government services provider with over $250 million of projected annual revenue, long-standing relationships with many key agencies, and expertise in delivering integrated satellite-terrestrial solutions notably in enterprise IT management and cyber security. SES plans to combine GES with SES GS, taking advantage of their shared cultures and deep commitment to providing secure, global solutions to unite the state-of-the-art multi-orbit satellite networking capabilities of SES GS with GES's experience in satellite communications integration.

Intelsat and PCCW Global Collaborate to Deliver On-demand Enterprise Connectivity Solutions

March 22, 2022 – Intelsat and PCCW Global have announced a new collaboration to extend the reach, resiliency and quick delivery of on-demand enterprise connectivity offerings. The integration of Intelsat's FlexEnterprise global connectivity fabric with PCCW Global's Console Connect Software Defined Interconnection® platform enables organizations to deliver enterprise connectivity to locations around the globe while leveraging an easy-to-use platform underpinned by one of the world's largest private MPLS networks. The combined solution addresses two key obstacles to delivering reliable, agile services across all of an enterprise's locations: limited local telecom infrastructure that can challenge traditional network deployments in developing or hard-to-reach places, and lengthy lead times typically associated with creating high-performance networks and services. The collaboration brings together FlexEnterprise's reach and reduced network deployment speed and Console Connect's real-time quoting, ordering and provisioning of high-performance connectivity.

Eutelsat and OneWeb Sign Global Distribution Partnership to Address Key Connectivity Verticals

March 22, 2022 – Eutelsat Communications and OneWeb have announced a global, multi-year Distribution Partnership Agreement (DPA) for OneWeb capacity. The agreement paves the way for Eutelsat to commercialise OneWeb services across key verticals including Maritime, Aviation, Enterprise, Telcos and Government. The partnership reflects the deepening cooperation between the two companies after Eutelsat became OneWeb's second-largest shareholder last December, and it showcases the synergies between them, delivering Eutelsat's extensive commercial reach to OneWeb while complementing Eutelsat's fleet of geostationary satellites with low Earth orbit assets. It paves the way for the companies to work together on developing combined GEO/LEO connectivity solutions.

Intellian Unveils Two New Terminals for SES's O3b mPOWER Customers

March 22, 2022 – Intellian Technologies, Inc. and SES have announced the unveiling of two new user terminals approved for O3b mPOWER, the mP130 (for fixed enterprise) and the X130D PM (for government vessels), at Satellite 2022 in Washington D.C. This follows on from the multi-year agreement that was signed in October 2021, to supply user terminals for SES's high-performance O3b mPOWER communications system. These user terminals are the first to be unveiled from the portfolio Intellian are developing, ranging from 85cm to 2.4m. The mP130 and X130D PM have been

engineered in close collaboration with SES and optimized for O3b mPOWER usage, that will deliver low latency, high bandwidth connectivity at speeds ranging from tens of megabits to multiple gigabits per second. The terminals will enable SES customers across government, cruise, energy, maritime, mining and telco sectors, the flexibility to access its next-generation O3b mPOWER MEO service as well as its entire existing fleet of over 70 geostationary and MEO satellites.

Kymeta Signs Agreement with OneWeb to Distribute Low Earth Orbit Satellite Connectivity Services to Military, Government, and Commercial Customers

March 22, 2022 – Kymeta and OneWeb announced today a distribution partner agreement to offer broadband connectivity services across the globe. The OneWeb LEO satellite network will give Kymeta customers access to high-speed, low-latency broadband connectivity while on the move or while stationary, anywhere in the world. Kymeta offers the world's only high-bandwidth, low power, fully integrated family of high throughput mobile terminals and has been widely adopted by military, government, enterprise, and maritime customers. The connectivity from OneWeb will complement Kymeta's existing broadband geostationary orbit (GEO) and 4G cellular service offering. Kymeta's distribution agreement with OneWeb will enable the company to resell OneWeb services in conjunction with fixed and mobility hardware solutions to government and commercial customers globally.

Hughes Debuts Multi-Transport Satellite-LTE Capability, Unveils Groundbreaking New Flat Panel Antenna Technology for OneWeb Service

March 22, 2022 – Hughes Network Systems has successfully demonstrated two new technologies at the SATELLITE 2022 trade show in Washington, D.C. Hughes executives showcased new technology that seamlessly integrates Geostationary (GEO) satellite and LTE transports into a single, reliable, low-latency broadband internet connection for consumers. Hughes then revealed its new technology for electronically steerable, flat-panel antennas, including a prototype for delivering OneWeb Low Earth Orbit (LEO) connectivity services. As owner and operator of HughesNet®, the leading satellite internet service in the world, Hughes continues to enhance its offerings with faster speeds, more data and network optimizations. To help shorten the time it takes for an internet signal to transmit (the latency), Hughes developed the integrated GEO satellite-LTE capability that employs Hughes ActiveTechnologies™ to route data intelligently and seamlessly over the optimal transport path.

Comtech Unveils World's Fastest 5 Gigabit-per-second Gateway Modem

March 22, 2022 – Comtech has unveiled its new advanced, high-speed CDM-780 Gateway modem, capable of managing unprecedented amounts of data delivered over new ultra-powerful and complex wideband GEO, MEO and LEO satellites and constellations to provide high-speed trunking services to gateways and support massive VSAT networks of hundreds-of-thousands of sites. The CDM-780 Gateway Modem, with five times the bi-directional speed of the nearest offering, further extends Comtech's successful portfolio of advanced high-speed trunking and broadcast modems with a level of flexibility capable of delivering 2.5Gbps simplex and 5Gbps duplex data rates over a single solution. The modular CDM-780 modem can be equipped with up to three modulators, three demodulators, or a combination of both to enable high-speed trunking or hitless satellite handover capabilities. Each modulator and demodulator is capable of supporting users at 500Msps and 2.5Gbps data rates.

Telstra to Deliver Teleport Services for OneWeb in Australia

March 22, 2022 – Telstra is expanding its presence in the rapidly growing satellite telecommunications market, building and maintaining three new dedicated teleports across Australia to provide satellite gateway services for OneWeb in the Southern Hemisphere. The first of the new teleports, located in Darwin Tivendale, is scheduled to begin installation this month with go-live planned in July. Two further sites – Charlton Toowoomba and Wangara, Perth, WA – are planned for completion later in 2022. Each facility will provide turnkey ground station support for OneWeb's

growing fleet of low-earth orbit (LEO) satellites. These facilities are being delivered as part of a 10-year deal between Telstra and OneWeb. Telstra's turnkey approach for OneWeb includes designing, building and activating the teleports with ground station capabilities to meet OneWeb's requirements. Telstra will also provide 24/7 monitoring and quality assurance services at each location.

Cobham SATCOM Selects CPI as RF Supplier for Telesat Lightspeed Landing Station Terminals

March 22, 2022 – Cobham SATCOM has selected Communications & Power Industries (CPI) to provide state-of-the-art Ka-band amplifiers for the gateway tracking antenna systems that Cobham will be supplying for the Telesat Lightspeed Landing Station Terminals. CPI is a global manufacturer of electronic components and subsystems focused on the communications and defense industries. CPI's next-generation 160W Ka-band GaNLink™ series block up converter (BUC) provides a versatile but compact solution, combining highly linear RF power with wideband internal block-up conversion. CPI will produce the units at its Georgetown, Ontario facility, which has manufactured a range of space and ground station RF units for more than 50 years.

Speedcast Adds Software Path Certification from AWS to Its Cloud Qualifications

March 22, 2022 – Speedcast has been recognized as an Amazon Web Services (AWS) Software Path partner and its SIGMA cloud-based platform has received technical validation from AWS. The designation follows an AWS Foundational Technical Review of the company's cloud implementation of SIGMA, its smart network management platform, allowing quick adaptation for changing operational needs. The SIGMA platform enables seamless integration of very small aperture terminals (VSAT), cellular, 4G/5G satellite backhaul, and L-band connectivity to deliver high capacity and high reliability for even the most remote operations. SIGMA on AWS unites Speedcast's fully managed, end-to-end network management solution, which creates a unified and adaptive network environment from multiple and changing transmission paths, with the flexibility and scalability of AWS.

Hughes Selected to Deploy Private 5G Network for DoD

March 21, 2022 – Hughes Network Systems has announced the award of an $18 million contract from the Department of Defense (DoD) to deploy a standalone 5G network at Naval Air Station Whidbey Island in Washington state. The Other Transaction Agreement (OTA) was issued through the Information Warfare Research Project (IWRP) consortium, a collaboration to engage industry and academia to develop and mature technologies in the field of information warfare that enhance Navy and Marine Corps mission effectiveness. Hughes will serve as the prime contractor connecting the base with a secure 5G network to support operations, maintenance and flight traffic management. The Hughes 5G network will utilize spectrum from DISH Wireless, the only carrier capable of providing the right combination of low band, mid band, and high band (mmWave) spectrum.

Speedcast and OneWeb Sign Partnership to Bring LEO Capabilities to the World's Largest Network

March 21, 2022 – Speedcast announced that it will become a OneWeb Distribution Partner, integrating OneWeb's Low Earth Orbit (LEO) satellite connectivity into Speedcast's Unified Global Platform (UGP). OneWeb is set to enter customer trials in mid-2022, bringing in LEO service for Speedcast's energy and enterprise customers followed by maritime mobility in 2023. The agreement will add OneWeb's enterprise-grade, high-speed LEO connectivity to the Speedcast platform, which is one of the largest technology-agnostic networks in the world, seamlessly adding LEO as a connectivity pathway, joining GEO, MEO and 4G/5G for high-demand applications. Making this integration possible is Speedcast's substantial investment in network management technologies, with future-ready, software-defined services to help evolve customer operations and maximize what remote sites can achieve.

SES to Accelerate Access to C-Band Spectrum for Verizon to Support Rapid Deployment of 5G Services

March 21, 2022 – SES has announced an agreement with Verizon Communications to expand the US-based mobile carrier's access to a portion of the C-band (3700-3800 MHz) in important regions across the US earlier than the relocation deadlines set out in the US Federal Communication Commission's (FCC) C-Band Report and Order. SES has already completed its Phase I accelerated C-band clearing ahead the first FCC deadline of 5 December 2021, a critical step in meeting the Commission's objectives to rapidly roll out 5G services across the US, and as a result earned almost $1 billion in accelerated relocation payments. To meet the Phase II deadline of 5 December 2023, SES is working to relocate its existing services from the 3700-4000 MHz band and complete equipment changes for Incumbent Earth Stations across the entire contiguous United States, earning an additional $3 billion in accelerated relocation payments in the process.

Isotropic Systems Partners with ST Engineering iDirect to Deliver First Fully Integrated Multi-Orbit Terminal

March 21, 2022 – Isotropic Systems, the leading developer of transformational multi-link satellite technology, announced a strategic integration partnership with ST Engineering iDirect, a global leader in satellite communications. The partnership secures a fully integrated iDirect waveform option to enrich commercial and government networks globally, enabling concurrent connections in the harshest environments to achieve highly resilient, multi-domain, multi-orbit communications. Isotropic Systems' first launch products will offer a powerful, fully integrated iDirect option designed to unlock access to multiple iDirect platforms concurrently over GEO satellites and upcoming NGSO constellations, as well as commercial and government frequency bands including Defense TRANSEC and commercial grade links across all orbits.

Kymeta Momentum Continues with Strong Financial Backing, Increased Global Market Adoption, and New u8 Product Names Unveiled

March 21, 2022 – Kymeta announced today the introduction of three new product brands for the u8 terminal including the Hawk TM u8, Goshawk TM u8, and Osprey TM u8. Along with unveiling the new Kymeta branding, the company announced the Osprey u8 product for the military is now shipping. In addition, the company introduced significantly lower pricing for the Hawk u8 that will open additional markets and vertical opportunities. This follows last week's news of $84 million in new financing for Kymeta to further evolve the company's growth as it prepares to expand offerings for LEO and defense customers and evolve the u8 product line from the full Ka band into the Ku band in the future. Through strong relationships with key partners including iDirect, Comtech, and Kratos to enable solutions that cross over multiple applications and groundbreaking trials with Intelsat and OneWeb that demonstrate future-proof capabilities including satellite-enabled 5G and interoperability with low Earth orbit (LEO) and geostationary (GEO) satellite constellations, Kymeta's market momentum in the key areas of defense, government, public safety and commercial industries has continued to see significant interest from customers.

Sale of Telenor Myanmar Approved by Myanmar Authorities

March 18, 2022 – Telenor Group has been informed that the Myanmar Investment Commission has given final regulatory approval to the sale of Telenor Myanmar to M1 Group. During the regulatory approval process the Myanmar authorities made it a condition that M1 Group should have a local partner in the ownership of Telenor Myanmar after the transaction between Telenor and M1 closes. Telenor's sales agreement is with M1 Group alone, and this has remained unchanged during the approval process. However, the regulatory approval requires that M1 ensures a local majority owner after the closing of the transaction between Telenor and M1. Telenor has confirmed to the regulator that the sales agreement between Telenor and M1 does not prevent M1 from entering a local partnership. M1 has informed Telenor that its local partner Shwe Byain Phyu has acquired 49 percent of Investcom, the Singapore-based company set up by M1 for the purchase of Telenor Myanmar.

Thaicom, SpaceBridge and WTD Indonesia Partner to Provide High-Speed Broadband Internet Connectivity to Enterprises, MNOs and Consumers in Indonesia.

March 17, 2022 – Thaicom, in partnership with SpaceBridge and WTD, a rewarded Indonesian ISP, announced the delivery and commissioning of an HTS multiple spot beam (MSB) Ku-band broadband VSAT network. SpaceBridge, Thaicom and WTD are providing the end-to-end solution based on the in-country managed services. The network delivers services over IPSTAR Satellite, enabling communities, Mobile Network Operators (MNOs), enterprises, consumers, hospitals, first responders, government and defense entities to transmit true real-time internet applications data over satellite, with the highest level of service assurance and quality of experience, unlike traditional provisioning of competing services in the country.

ACTIA & ARABSAT: A Collaboration that Continues and Takes Shape

March 17, 2022 – ARABSAT and the French Satcom integrator joint their complementary expertise to offer ARABSAT end-users state of the art and cost-effective solutions of end-to-end satcom solutions for commercial customers in the MENA region. While ARABSAT will provide high throughout satcom capacity in Ku Appendix, ACTIA Telecom will integrate, deliver, install and support the Ku Appendix satellite communications terminals. This business model shall be extended for other satellites services in Ku and Ka Band. ACTIA Telecom has a large range of terminals and satcom power amplifiers fitting the needs of ARABSAT - or the ones of its clients - wherever its satellite capacity is available in the MENA region.

OneWeb Partners with Axiros for Management of Critical Customer Infrastructure

March 17, 2022 – OneWeb has partnered with Axiros to deploy their suite of CPE management tools, including its core Auto Configuration Server (ACS – AXESS) and Quality of Experience monitoring and management (QoE – AXTRACT) modules. This partnership delivers OneWeb a vital network component with 3 critical characteristics: absolute reliability, the flexibility to meet OneWeb's unique and exceptional demands, and light-touch, dependable deployment freeing OneWeb to focus precious resources on its most critical challenges. The Axiros system offers the levels of reliability and core functionality that OneWeb needs 'straight out of the box'. No mean feat when the OneWeb network brings a whole new level of meaning to the idea of 'carrier grade' reliability and performance.

Gilat's ESA Antenna for IFC Hits Breakthrough on Airbus Flight Tests Operating on Spacecom Satellite

March 17, 2022 – Gilat Satellite Networks announced a breakthrough in electronically steerable antenna (ESA) technology for in-flight connectivity (IFC) with the conclusion of flight tests conducted by Airbus Defence and Space, marking the successful completion of the final phase of the five-year Clean Sky 2 IFC ESA project. Connectivity was demonstrated on Spacecom's AMOS-17 advanced digital Ka band satellite. Gilat's ESA technology, operating with Gilat's SkyEdge II-c platform and Taurus aero MODMAN, is proven to be at the forefront of the next-generation of the ESA IFC market. Gilat's ESA is a flat antenna that is fully-integrated and validated on the Airbus C295 Flight Test Bed 2, an in-flight demonstrator of the European Clean Sky 2 research and innovation program, part of the EC Horizon 2020 initiative.

Cobham SATCOM Unveils Tactical TRACKER Range of Transportable Tracking Terminals

March 17, 2022 – Cobham SATCOM, a leading global provider of land and maritime satellite communications solutions to the Government and Enterprise sectors, has today announced the launch of its ground-breaking new Tactical TRACKER antenna range. The new terminals are available in three sizes and are the first MIL-STD antennas to fully support multi-orbit tracking across GEO, MEO and LEO satellites. Combining highly accurate multi-orbit tracking capabilities with a rugged, lightweight, and robust design, the new terminals provide unmatched deployment flexibility and a future-ready terminal for ultra-resilient battlefield communications.

ThinKom Introduces Ka-Band COTM Phased-Array Satellite Antenna

March 16, 2022 – ThinKom Solutions, Inc., today unveiled a new Ka-band phased-array satellite antenna for communications-on-the-move (COTM) applications. The new ThinSat(r) Ka500, based on ThinKom's proven VICTS technology, is a "turnkey" terminal that enables the user to easily and quickly connect to the network of their choice, such as the existing and new Ka-band networks being deployed using satellites in geostationary (GSO) and non-geostationary (NGSO) orbits. It has the beam agility to track NGSO satellites as they move rapidly across the sky, as well as switch seamlessly between satellites. This new Ka-band antenna meets the Army's Capability Sets 25 and 27 (CS25 and CS27) needs to provide robust, reliable and resilient command, control and communications capabilities in full support of the DOD JADC2 requirements for military wheeled and tracked vehicles.

AsiaSat Furthers SAILAS's Managed Service Expansion for Maritime Sector with Video Streaming, OBM and Antenna System Solutions

March 16, 2022 – AsiaSat announced plans to expand SAILAS's end-to-end managed connectivity service for the maritime sector with a wide range of value-added services that will further increase operational efficiency and safety for vessel operators, and enhance communication and entertainment experience of crews and passengers on board. This new initiative marks an important step towards strengthening AsiaSat's capability in delivering end-to-end managed service to support the digital transformation of the maritime sector. The new value-added services will include the addition of video streaming service to SAILAS's portfolio of metered and non-metered data service plans, out-of-band management (OBM) and all-embracing antenna system solutions, establishing a complete service network crafted to address the requirements of all maritime sub-verticals including fisheries, merchant shipping, passenger boats, yachting, as well as oil and gas.

Kymeta Corporation Secures Additional $84 Million in Equity Financing

March 15, 2022 – Kymeta announced the closing of additional equity funding totaling approximately $84 million, led by Bill Gates and participation by Hanwha Systems, among other investors. The multi-million-dollar investment will be used to drive Kymeta's innovations forward, accelerate the production of its innovative electronically-steered flat panel technology and further evolve the company's growth as it prepares to expand our offerings for LEO and defense customers. With this financing, the company is also nearing fully funded and will allow Kymeta to expand its manufacturing capacity to meet increasing customer demand for Kymeta's flat panel antennas while continuing to evolve the u8 product line in the Ku-band as well as bring the same complete product family into the Ka-band in the future.

Kacific's Commitment to Underserved Communities Recognised at the Asian Telecommunications Awards 2022

March 15, 2022 – Kacific's commitment to bridging the digital divide for unserved and underserved communities across Asia and the Pacific has been recognised at the Asian Telecommunications Awards 2022. Award organisers, The Asian Business Review, named Kacific the Company of the Year and Christian Patouraux, the founder and Chief Executive Officer of Kacific, CEO of the Year. The Asian Telecommunications Awards celebrates outstanding companies, whose remarkable initiatives and achievements transform the lives of customers and keep the region moving forward. Since its inception, Kacific has been committed to transforming the lives of underserved and unserved communities by delivering affordable and reliable satellite broadband. The satellite industry has traditionally had high barriers to entry, but Kacific was the first operator who managed to bring a satellite into service starting its mission without capital, the backing of an established parent company or a license to operate.

Japan Approves Iridium Partner Cobham SATCOM's Iridium Certus® SAILOR 4300 Terminal

March 14, 2022 – Iridium Communications Inc. partner Cobham SATCOM, a market-leading provider of radio and satellite communications solutions, has received regulatory approval from Japan's

Ministry of Internal Affairs and Communications (MIC) to allow for Japanese adoption of its Iridium Connected® SAILOR 4300 terminal. With this approval, those operating Japanese flagged vessels can now utilize the high-performing, truly global L-band connectivity that the SAILOR 4300 provides. Powered by Iridium Certus 700, the SAILOR 4300 enables mariners to access affordable, weather-resilient, and fast internet speeds at sea through Iridium's truly global satellite network. Whether it serves as a primary ship communications solution or as a VSAT companion service, the SAILOR 4300 supports reliable voice and data applications for mariners' everyday use. The small form factor terminal will be of particular value to Japan's extensive merchant and fishing fleets, which require rapid, reliable, and cost-effective connectivity.

Intelsat Expands In-flight Connectivity with Huge Order for Gilat's SkyEdge IV Taurus Modems

March 14, 2022 – Gilat Satellite Networks Ltd. announced today that Intelsat is expanding its in-flight connectivity (IFC) capabilities with a strategic multimillion-dollar order for Gilat's SkyEdge IV Taurus modems. SkyEdge IV Taurus is an ultra-high-performance modem for IFC designed to provide Wi-Fi internet and IPTV for passengers on commercial airlines, regional aircraft and business jets. Taurus is backward compatible, thus preserving past investments with the proven SkyEdge II-c platform, already deployed globally. This will enable Intelsat to continue to deliver high-quality IFC capabilities to its customers and an enhanced user experience, as well as to make a strategic move to embrace new technologies, such as those offered in the SkyEdge IV platform.

Intellian to Design and Supply Dual-parabolic Reference User Terminals for the Telesat Lightspeed Network

March 8, 2022 – Telesat and Intellian announced a contract award for Intellian to design and supply reference enterprise user terminals for the Telesat Lightspeed Low Earth Orbit (LEO) satellite network. Intellian's innovative satellite terminal technology leverages the company's non-geostationary satellite orbit (NGSO) modem integration expertise and satellite tracking algorithms and will provide Telesat's most demanding customers with highly reliable, high throughput access to the Telesat Lightspeed network. Telesat will use early deliveries of Intellian terminals to support system development and performance testing, and during the Telesat Lightspeed Alpha and Beta Test phases, to demonstrate system capabilities to Telesat's enterprise, telecom and government customers, including the Government of Canada. Telesat and Intellian are also discussing terminal development programs for other market segments. These high-performance user terminals feature dual-parabolic antennas in a true make-before-break configuration to achieve seamless handovers from one satellite to the next in the LEO constellation.

INTEGRASYS Develops a Resilient Firmware Security Solution to Fight against Cyber-attacks

March 7, 2022 – INTEGRASYS has developed a solution, FWSEC, to protect critical infrastructures from potential cyber-attacks. Nowadays, securing supply chains against imminent cyber-attacks has become a challenge, especially in Europe. The battlefield extends to the online field, which is the engine of the current intelligence. INTEGRASYS' FWSEC solution is used for the firmware protection of connected sensors operating in Critical Infrastructures. It detects, stops, and reports malicious tampering attempts which may be a potential threat to the security of the affected sensors, and also scale up the threat towards the full system through the network infrastructure. The solution is based on three main pillars: a firmware management server including remote management capabilities, a TPM module at the sensor platform providing crypto functions and secure storage, and an external tamper-proof private blockchain used as an additional security layer leveraging time-based integrity of digital assets. If the Firmware is not reliable FWSEC automatically goes back to a safe state with a digital coded footprint.

SES Unveils New ESG Strategy and Targets with 2021 Annual Report Publication

March 2, 2022 – SES S.A., the leader in global content connectivity solutions, has today published its 2021 Annual Report which includes a new Environmental, Social, and Governance (ESG) agenda and

an ambitious set of ESG targets. The revised ESG strategy reflects the outcome of a comprehensive materiality assessment that was conducted during 2021, involving extensive stakeholder outreach. The SES Horizon strategy is where sustainable space meets sustainable Earth and focuses on four key pillars – ensuring the secure and sustainable use of space; bold climate action, including a commitment to carbon NetZero by no later than 2050; increasing diversity and inclusion in the industry, starting with SES; and using our global content connectivity solutions to meet critical human needs.

Intelsat and TIM Brasil Implement the Largest Satellite Network in Latin America and Expands 4G Coverage to the Northern Region

March 2, 2022 – TIM Brasil is expanding Sky Coverage to new points in the northern region of the country in partnership with Intelsat. One of the objectives of the project, which currently has more than 1,000 sites, is to bring connectivity sustainably through off-grid sites to more distant areas of Brazil, where there is a deficit in electricity grid infrastructure. As the leader in 4G coverage and with the objective of covering 100% of the municipalities in Brazil with the technology by 2023, TIM created the Sky Coverage project to cover districts, localities, highways, and resorts, also using satellite connection in remote areas. This solution extends the reach of networks faster than terrestrial alternatives. The project also expands connectivity for the agribusiness sector, especially for equipment and investments in the Internet of Things (IoT). Intelsat's satellite capability is already used today for cellular backhaul in countries around the world, including fully managed CellBackhaul solutions in Europe, DRC, the United States and Japan.

Intelsat Secures Extension of Vodacom DRC Ku-band Contract with Managed CellBackhaul Service

March 1, 2022 – Intelsat has been selected by Vodacom DRC, a leading mobile telecommunication company in the Democratic Republic of Congo (DRC) to provide its Ku-band satellite services. Intelsat's end-to-end managed CellBackhaul service will serve as an alternative backhaul service to certain sites as a component of Vodacom's Rural Communication Solution (RCS) initiative to bring mobile services to deep rural sites in DRC. As part of the "Inclusion for All" pillar of their Vision 2025 strategy, Vodacom brings together available transport networks and hybrid power solutions to enhance and upgrade rural communication services. Intelsat's Ku-band capacity and the CellBackhaul managed service enable Vodacom to extend mobile connectivity to areas where fiber or microwave backhaul networks are not yet available or unfeasible to deploy.

BROADCAST

Intelsat Establishes Satellite Video Neighborhood for Brazil Cable Distribution

March 31, 2022 – Intelsat announces the commencement of "seeding" of antennas at more than 200 cable headends in Brazil in cooperation with local vendor, Z2Gtech. Antenna seeding is an installation program providing widespread access to cable headends across Brazil, creating a new video neighborhood on Intelsat 14 (IS-14) at 45°WL. IS-14 will reach more than 98% of cable TV subscribers bringing value and monetization opportunities for programmers seeking to reach the Brazilian market. IS-14 is focused on regional video distribution and has high penetration into regional systems across all Latin American countries. The antenna program is a pioneering way to enhance cable penetration to all key MSOs in Brazil. TV Cultura, a Brazilian television network that serves over-the-air, cable, and satellite TV systems, will be an initial customer on the IS-14 video neighborhood.

TAS (Teleport Access Service Inc) Taps ABS for Capacity over Asia on ABS-2 Satellite

March 29, 2022 – Teleport Access Services Inc. (TAS), a Taiwanese service provider has signed a multi-year capacity deal with ABS, a global satellite operator, to broadcast Hwazan TV, a Buddhism-based channel via ABS-2 satellite at 75° East. TAS will distribute the channel on the ABS-2 Southern beam MCPC platform across Asia and Buddhist communities within this region. Launched in 2003, Hwazan Satellite TV is a satellite channel broadcasting 24 hours a day in Mandarin Chinese. It has

expanded its reach beyond Taiwan and Greater China to five major continents of the world. It features programs about Buddhism and its culture from music to education, and entertainment that aim to promote peace and a sense of well-being to its audience.

SES and CANAL+ Expand Partnership with New Ground Services Agreement

March 17, 2022 – SES and CANAL+ have expanded their partnership with a long-term agreement for uplink services for CANAL+'s French Pay-TV channel bouquet at 19.2 degrees East. The new agreement includes services delivered from two teleports in Betzdorf, Luxembourg, and starting in 2023, Munich, Germany, underscoring the importance and shared value of delivering superior and uninterrupted viewing experiences to CANAL+ subscribers. The current satellite capacity agreement between SES and CANAL+ sees SES satellites delivering premium content to more than 10 million subscribers across Europe and Africa until the end of the decade. SES and CANAL+ have been partners since 1995. CANAL+ utilises transponders at three orbital positions: 19.2 degrees East, 23.5 degrees East and 22 degrees West.

USSI Global Helps Intelsat Successfully Execute Phase I of Intelsat's C-Band Spectrum Transition

March 10, 2022 – USSI Global, a turnkey provider of customized broadcast, network, and digital signage services worldwide, has completed Phase I of its project management services for Intelsat's accelerated C-band clearing and relocation activities. Completed in October 2021, USSI Global provided logistics and field services that were essential in supporting Intelsat's customer service transitions, technology upgrades and earth station filtering required to meet the aggressive Phase I schedule as mandated by the FCC's Report and Order. The FCC's C-band spectrum transition will clear 300MHz of the C-band's 500MHz bandwidth for 5G mobile services by December 2023. USSI Global has been working closely with Intelsat and other satellite companies to relocate the TV, radio, and other services they carry to the upper 200MHz of C-band spectrum approved for on-going satellite contribution and distribution. Intelsat selected USSI Global as one of the primary vendors to help manage and execute the challenging transition across all phases, which has a core focus of freeing the spectrum for flexible use and mitigating 5G interference risks.

Telenor Chooses DataMiner EPM for Renewed Converged Television and Video Streaming Services

March 10, 2022 – Skyline Communications, global leading provider of end-to-end vendor- and domain-agnostic digital transformation solutions for the ICT media and broadband industry, announced that Telenor has chosen Skyline's DataMiner platform as the experience and performance management solution for its renewed converged television and video streaming services platform (DVB-C/FTTx/5G FWA/unmanaged OTT, DVB-C/IPTV/ABR). The continuous expansion of Telenor's TV platform has seen them offering more services over an increasing variety of access networks and even more diverse endpoints. To support this ever-increasing complexity, they concluded that Skyline's DataMiner Experience and Performance Management (EPM) Solution was the best choice. DataMiner EPM is the only video quality-of-service (QoS) management solution delivering the coverage, reach and profound OSS integration they were looking for.

HISPASAT and NAGRA Reach Agreement for the Joint Launch of a Wholesale OTT Service in Latin America

March 9, 2022 – HISPASAT has reached an agreement with NAGRA, the world's leading independent provider of streaming, content protection and monetization solutions for digital television, to develop a wholesale OTT (Over-The-Top) television solution. The service will enable pay-TV operators, Internet service providers (ISPs) and regional content companies to offer their clients a high-quality multiscreen entertainment service that is distributed through the Internet without having to roll out their own infrastructure. This reduces both the initial investment and the time needed to launch this type of solution. While its launch is planned for Spring of 2022, a demonstration is now available for interested clients. Within the framework of this collaboration, HISPASAT will provide the video processing infrastructure at its teleport in Lurin (Peru), including the receipt of linear content (TV

channels) and on-demand content, as well as its coding and publication. HISPASAT will be responsible for the entire operation of the service from the teleport of Lurin, Peru, where it has an experienced team of professionals that currently operates several TV platforms via satellite for the main South American operators.

LAUNCH / SPACE

SES Adds Third Satellite from Thales Alenia Space to Extend Services across Europe, Africa and Asia
March 28, 2022 – SES has ordered SES-26 a fully software defined geostationary (GEO) satellite from Thales Alenia Space. SES-26 will maintain and expand the wide range of content delivery and connectivity services to broadcasters, media companies, telco operators, internet service providers and governmental organisations across Europe, Africa, the Middle East, and Asia Pacific. The digital satellite with both Ku-band and C-band frequencies will replace SES's NSS-12 satellite at 57 degrees East, one of SES's longest-held and most valuable orbital positions. From this key location at the crossroads of Europe, the Middle East, Africa and Asia, SES will continue to deliver content and connectivity solutions to some of the world's fastest-growing markets.

PSN Group Builds Nusantara Lima satellite
March 22, 2022 – PSN Group has entered into contracts to build the Nusantara Lima Satellite which will be launched in 2023 and will augment the capacity of SATRIA-1. With these 2 VHTS, PSN Group will be one of the biggest satellite capacity providers in Asia with approximately 330 Gbps covering Indonesia and its surrounding areas. The Nusantara Lima Satellite has a capacity exceeding 160 Gbps, which will provide primary service in Indonesia and some ASEAN countries. The satellite and its seven gateways in several cities in the regions of Indonesia, including Banda Aceh, Bengkulu, Cikarang, Gresik, Banjarmasin, Tarakan, and Kupang. The satellite will also provide satellite-based internet access all over Indonesia and to some ASEAN countries. PSN has already entered into a contract with a satellite manufacturer from the United States, Boeing Satellite Systems, to build the Nusantara Lima satellite. PSN also have entered into an agreement with SpaceX to launch the satellite on its Falcon 9 rocket. PSN Group has also selected its ground segment partners Hughes Network System for the broadband network and Kratos Communication to provide Satellite Spectrum Monitoring and Network Management System. The antenna and the RF gateways are provided by Kratos and PCCW Global from Hong Kong.

Spaceflight Inc. and Astrocast Extend Launch Contract
Mach 22, 2022 – Spaceflight Inc. has announced an extended multi-launch agreement (MLA) with long-time customer, Internet of Things (IoT) constellation developer, Astrocast. This agreement will add two missions to accommodate Astrocast's fast-growing IoT constellation which helps track assets in some of the world's most remote regions. In February of 2020, Astrocast and Spaceflight signed an MLA for the launch of 10 additional IoT nanosatellites, representing the sixth launch booked with Spaceflight. In total, Spaceflight is now set to launch a majority of the satellites that will complete the Astrocast IoT Nanosatellite Network. Spaceflight has already managed the successful launch of 10 Astrocast spacecraft, including demonstration models on Spaceflight's historic SSO-A mission in 2018 and PSLV-C45 in 2019. The companies most recently partnered and successfully launched an additional five nanosatellites on Spaceflight's SXRS-5 in January 2021.

OneWeb to Resume Satellite Launches through Agreement with SpaceX
March 21, 2022 – OneWeb announced that the company and SpaceX entered into an agreement that will enable OneWeb to resume satellite launches. The first launch with SpaceX is anticipated in 2022 and will add to OneWeb's total in-orbit constellation that currently stands at 428 satellites or 66 percent of the fleet. OneWeb's network will deliver high-speed, low-latency global connectivity. Demand for OneWeb's broadband connectivity services has continued to grow across telecommunications providers, aviation and maritime markets, and governments worldwide.

OneWeb has activated service with its network at the 50th parallel and above, and early partners are initiating service.

Rocket Lab to Launch Three Demonstration Satellites for E-Space

March 21, 2022 – Rocket Lab USA, Inc. will launch three demonstration satellites for E-Space, to validate the systems and technology for its satellite system. The satellites are scheduled to fly as part of a rideshare mission on Rocket Lab's Electron launch vehicle from Launch Complex 1 Pad A on New Zealand's Mahia Peninsula expected in the second quarter of 2022. E-Space aims to reduce the launch requirements for a full constellation to months instead of years — decreasing the time it takes to scale, replenish or deliver a full system. E-Space's system aims to allow governments and companies to own private satellite constellations that can dynamically scale in capabilities, with applications ranging from secure communications to managing remote infrastructure, while maintaining a high level of security, flexibility and resiliency.

Astra Announces Multi-Launch Contract and First Launch with Spaceflight Inc.

March 14, 2022 – Astra Space, Inc. and Spaceflight Inc. announced a multi-launch contract. The first launch under this contract is planned for today, March 14, 2022, with a window opening at 9:22am PDT / 16:22 UTC out of the Astra Spaceport in Kodiak, Alaska, but may be shifted to March 15, 2022 depending on conditions at the launch site. This agreement provides Spaceflight with launch opportunities using Astra's launch services through 2025. Through this commitment, Spaceflight expands its launch vehicle partner portfolio, offering its customers additional launch opportunities through Astra missions. Astra gains a knowledgeable and reliable partner that offers a consistent stream of satellite customers seeking launches. Together, Astra and Spaceflight are rapidly accelerating the cadence of how companies get to space. Today's planned launch, Spaceflight's Astra-1, will take three Spaceflight customers, including Portland State Aerospace Society and NearSpace Launch, to a 525 km circular sun-synchronous orbit. Spaceflight managed the mission for all customers onboard and worked closely with the Astra team during the integration process.

AST SpaceMobile Announces Multi-Launch Agreement with SpaceX

March 9, 2022 – AST SpaceMobile, Inc. has signed a multi-launch agreement with Space Exploration Technologies Corp. ("SpaceX"). In addition to the planned summer launch of the BlueWalker 3 test satellite (BW3), the agreement covers the launch of the first BlueBird satellite and provides a framework for future launches. The BW3 satellite is slated to launch from Cape Canaveral on a Falcon 9 vehicle. The satellite has an aperture of 693 square feet and is designed to communicate directly with cell phones via 3GPP standard frequencies. The BlueBird satellites are designed to be compatible with the Falcon 9 vehicle, as well as other existing and planned industry launch vehicles. These production satellites are designed to provide broadband commercial service directly to cell phones, without any additional hardware or software on the phone. At full capacity, AST SpaceMobile expects to be able to assemble up to six BlueBird satellites per month at its Texas manufacturing facilities, which offer a combined 185,000 of square footage. AST SpaceMobile's mission is to eliminate the connectivity gaps faced by today's five billion mobile subscribers moving in and out of coverage zones, and bring cellular broadband to approximately half of the world's population who remain unconnected. Partners in this effort are leading global wireless infrastructure companies, including Rakuten Mobile, Vodafone and American Tower.

CGWIC Successfully Launches 6 Galaxy Space Satellites by LM-2C with XINGYUAN-2 Satellite as Secondary Passenger

March 5, 2022 – Long March-2C (LM-2C) launch vehicle successfully launched 6 Galaxy Space satellites, and XINGYUAN-2 satellite as secondary passenger from Xichang Satellite Launch Center (XSLC). China Great Wall Industry Corporation (CGWIC), a subsidiary of China Aerospace Science & Technology Corporation (CASC), provides the launch services for all the satellites in this mission. The 6 Galaxy Space satellites, designed and developed by GalaxySpace, will be used for in-orbit validation of

multi-satellite joint operation, constellation building, and communications & remote sensing integrated services. XINGYUAN-2 is a 6U remote sensing CubeSat. LM-2C Launch Vehicle is a liquid two-stage launcher designed and manufactured by China Academy of Launch Vehicle Technology (CALT), also a subsidiary of CASC. The designed capacity of LM-2C is 1200kg for 700km sun synchronous orbit. The largest PLF of LM-2C is 4.2m in diameter. This is the 60th launch of LM-2C.

Optus Utilises Space Robotics to Extend Life of D3 Satellite in World First

March 3, 2022 – Optus announced it will be the first commercial geostationary operator to utilise SpaceLogistics' Mission Robotic Vehicle (MRV) and Mission Extension Pod (MEP), increasing the life of Optus' D3 Satellite into the 2030's. The MRV, a spacecraft that is capable of robotically servicing multiple satellites in orbit, including the installation of a MEP, will be launched by SpaceX in 2024. The sophisticated robotics of the MRV will provide Optus the ability to attach the MEP to D3 which is effectively a fuel tank that extends geostationary life. Once on boarded, the MEP will augment the propulsion system of Optus' D3 satellite, providing an additional six years of life extension. Combined with OPTUS 11, Optus' next generation satellite and the Asia-Pacific region's first software-defined high throughput satellite (HTS), the extension of Optus' D3 satellite into the 2030's will enable Optus to provide continuity of service to its existing customer base as well as increased capacity, coverage, performance and flexibility. The MEP will be a small Optus-owned, Optus-controlled propulsion augmentation vehicle that can provide more than six years of life extension for a typical 2,000 kg satellite in geostationary orbit.

Australian Government Funding Drives Further Growth for Fleet Space Technologies

March 2, 2022 – Fleet Space Technologies is delighted to announce that the Australian Government has committed $20million (USD) to the development of the Space Manufacturing Hub in Adelaide, South Australia. This adds to funds already committed by The Government of South Australia ($20million AUS) and a consortium of leading space, aerospace and advanced air mobility companies including Fleet, Q-CTRL, AtSpace Pty Ltd and Alauda Aeronautics, the manufacturer of the world's first electric flying racing cars. That total value of the project is therefore $66million (AUS). This state-of-the-art facility will enable the further growth of Fleet Space Technologies in line with Australia's ambitions to create one of the world's leading space industries.

Boeing is Building Wideband Global SATCOM (WGS)-11+ Satellite Using Advanced Techniques to Deliver Unrivaled Capability

March 1, 2022 – Boeing has begun building the latest version of the Wideband Global SATCOM satellite system, WGS-11+, using advanced techniques to effectively integrate the latest commercial technology while enabling a high-paced five-year schedule that will deliver years faster than similar clean-sheet designs. Boeing and the US Space Force completed the system's critical design review in late 2021, officially launching the program's production phase. Leveraging additive manufacturing, rapid prototyping, agile development and other advanced techniques, Boeing has created cost and schedule benefits, while boosting system performance.

Lockheed Martin Invest in Satellite Vu to Bring its World-first Climate Change Technology to the US

March 1, 2022 – British Earth Observation scale-up Satellite Vu, founded in 2016, has successfully closed the second round of its Series A, bringing total investment to £20 million. Satellite Vu's first funding round was led by Seraphim Space Investment Trust Plc, the world's first listed SpaceTech Fund. New participants in the second close include Contrarian Ventures, as well as US investors Lockheed Martin, and In-Q-Tel, Inc. — notable for their mission to invest in cutting-edge technologies to enhance the national security of the United States. The funding round highlights Satellite Vu's rapid growth; the company raised its seed round funding of £3.6 million ($5 million) in April last year. As well as US expansion, Satellite Vu's new investment will be directed to ramping up its plans to launch a constellation of seven thermal infrared imaging satellites that will offer a resolution of 3.5m, this outperforms existing available resolution of 100m. Satellite Vu plans to launch the first of its

constellation of satellites into orbit within the next year. The satellite will collect thermal data, day and night, of both the natural and the built environment at any location on the planet.

EXECUTIVE MOVES

Comtech Appoints Maria Hedden to Chief Operating Officer

March 30, 2022 – Comtech Telecommunications Corp., a leading global provider of next-generation 911 emergency systems and secure wireless communications technologies, today announced that it has hired defense and communications industry veteran Maria Hedden as its new Chief Operating Officer (COO). Hedden's expertise is built on a storied career that includes over 20 years of executive P&L management experience focusing on improving business performance, and she has worked with some of the largest names in defense and mission-critical communications, including BAE Systems and L3Harris. In her most recent position, she served as Senior Vice President of Operational Transformation for Leidos, where she was responsible for establishing manufacturing excellence for a multi-billion product portfolio.

David Wajsgras to Become Intelsat CEO

March 7, 2022 – Intelsat has tapped David Wajsgras, as its next chief executive officer (CEO). Effective April 4, Wajsgras succeeds Stephen Spengler, who announced his planned retirement in Oct. 2021. Wajsgras has two decades of experience at the senior executive management level, providing operational, strategic and financial leadership in both the commercial and defense industries. He most recently served as president of the global, $7.5-billion, advanced-technology Intelligence, Information and Services (IIS) business at the former Raytheon Company, now part of Raytheon Technologies. Before joining Raytheon as chief financial officer, Wajsgras was executive vice president and chief financial officer at Lear Corporation and held other key operations and leadership roles.

Seraphim Space Appoints New COO Sarah Shackleton

March 7, 2022 – Seraphim Space (Manager) LLP, the manager of Seraphim Space Investment Trust plc, the world's first listed Space Tech Fund, is delighted to announce that the partner of Development Partners International, Sarah Shackleton, has been appointed as the Company's new Chief Operating Officer. The appointment is effective immediately. Sarah joins Seraphim Space as Chief Operating Officer following a long and distinguished career in the private equity and investment banking sector, working for almost 15 years as a partner of Development Partners International, one of the leading private equity firms investing in Africa and overseeing c$2.8 billion in AUM.

REPORTS

NSR Releases Constellations Market Assessment: SATCOM & EO Report

March 31, 2022 – NSR's *Constellations Market Assessment: SATCOM & EO, 4th Edition (CMA4)* report is the industry's leading resource for evaluating the rapidly emerging satellite constellations sector. This report offers a 360° assessment of opportunity generation across applications, regions, and industry value chain within the Satcom and Earth Observation segments. Building on a core understanding of market dynamics upstream, midstream and downstream, from operator to end user, NSR's CMA4 objectively analyzes the market landscape including CAPEX and Competitive Strengths.

Euroconsult Releases High Throughput Satellites Report

March 23, 2022 – Euroconsult has released the 6th edition of its *High Throughput Satellites (HTS)* report – its in-depth analysis of geostationary (GEO) and non-geostationary (NGSO) HTS markets including major drivers, strategic issues, competitive landscape and detailed forecasts of capacity

supply and associated demand take-up. After helping reshape the satellite communications industry through their ever-improving capacity volumes and cost per bit, High Throughput Satellites are entering a new era of accelerated and drastic transformation, wherein global HTS capacity supply is expected to grow at a torrid pace over the next five years (45% CAGR) surpassing 60,000 Gbps (60 Tbps). Facilitating this growth are non-geostationary orbit (NGSO) broadband constellations, which are projected to account for nearly 90% of capacity supply in 2026, a marked contrast to the historically dominant market share of supply held by GEO-HTS systems.

EIB and EUSPA Publish First Global Navigation Satellite Systems Investment Report
March 16, 2022 – The EU Agency for the Space Programme (EUSPA) and the European Investment Bank (EIB) have published the *GNSS Investment Report*. The report provides a comprehensive investment analysis of the global navigation satellite systems (GNSS) market, examining and forecasting the dynamics of the sector overall. It also outlines the current state of play regarding available public and private funding and identifies needs and funding gaps for GNSS companies and startups in the European Union. The report finds that Europe still holds a strong position in the global landscape of downstream GNSS solutions — products and services linked to navigation satellites. However, up to €42 billion in public and private investment will be needed over the next ten years if Europe is to stay competitive and remain in a position where it can rely on domestic suppliers.

UPCOMING EVENTS

APSCC 2022 Webinar Series, Virtual Event, https://apsccsat.com
LIVE Tuesday 9 AM HK l Singapore Time

37th Space Symposium, April 4-7, Colorado Springs, CO, USA, https://www.spacesymposium.org/

NAVITEC 2022, April 4-8, Noordwijk, Netherlands, https://navitec.esa.int/

8th Asia-Pacific Spectrum Management Conference, April 26-27, https://spectrummanagement.asia/

Future of Video India, April 29, https://avia.org/all_events/future-of-video-india-29-april-2022/
Over the last four years, the battleground for video streaming services has slowly been shifting from the United States to India. According to a report by Boston Consulting Group, the OTT market in India is the fourth largest in the world and is expected to grow to USD$15 billion over the next decade at a CAGR of 25 per cent. Despite this enormous growth, video streaming platforms are far from making profits and are instead strapped with high content costs, low ARPUs, an overcrowded marketplace with too many consumer options, and the perennial challenge of piracy. How does one make sense of the video streaming market in India today? Where are the revenues despite its large base of viewers, and what will drive the next wave of growth for the streaming landscape? The **Future of Video India** aims to address some of these key questions and look at how business models are changing and adapting in the coming year. Visit https://avia.org/all_events/future-of-video-india-29-april-2022/ for more details about the event.

Space Technology Conference 2022 – CENTRAL EURASIA, May 10-11, Tashkent, Uzbekistan, https://www.spacetechnologyconference.com/

CABSAT 2022, May 17-19, Dubai, UAE, https://www.cabsat.com/

Asia Satellite Business Week, June 1-3, Singapore, https://asiatechxsg.com/satelliteasia/

Running in-person and online over three days, the Asia Satellite Business Week will mobilize 200+ global space and satellite key players to share industry perspectives, network, and secure partnerships. Around 40 prominent industry speakers will take the stage to address satellite's technology-driven hottest topics amongst which connectivity, remote sensing/EO, Artificial Intelligence, and new space, including industrial/launch activities up to in orbit logistics & space exploration.

EDITORIALS AND INQUIRIES

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About APSCC

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