

APSCC Monthly e-Newsletter

September 2020

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 August 1 to August 31.

INSIDE APSCC

APSCC 2020 Conference Series Starts from August 18: LIVE Every Tuesday 9AM HK | Singapore Time from August 18 to November 17

APSCC 2020 is the largest annual event of the Asia Pacific satellite community, which incorporates industry veterans, local players as well as new players into a single platform in order to reach out to a wide-ranging audience. Organized by the Asia Pacific Satellite Communications Council (APSCC), APSCC 2020 this year is even stretching further by going virtual and live. Every Tuesday mornings at 9 AM Hong Kong and Singapore time, new installments in APSCC 2020 will be presented live - in keynote speeches, panel discussions, and in presentations followed by Q&A format. Topics will range across a selection of issues the industry is currently grappling with globally, as well as in the Asia-Pacific region. Register now and get access to the complete APSCC 2020 Series with a single password. To register go to <https://apsccsat.com>.

SatelliteAsia Conference organized by APSCC

September 29 ~ October 1, Online Event, <https://www.connectechasia.com/satellite-asia/>

The Asia-Pacific Satellite Communications Council (APSCC), in conjunction with Informa Markets, will present interactive online sessions at ConneCTechAsia 2020, Asia's biggest telecom industry event. The program will be focused on customer verticals, and will feature case studies, executive interviews, presentations and themed interactive sessions - all intended to showcase APSCC members, and provide a value-added experience for participants.

SATELLITE BUSINESS

Gogo to Sell Its Commercial Aviation Business to Intelsat

August 31, 2020 - Gogo announced it has entered into a definitive agreement to sell its Commercial Aviation (CA) business to Intelsat for \$400 million in cash, subject to customary adjustments. The Gogo Board of Directors has approved the transaction. Intelsat expects to finance the transaction utilizing cash on hand and borrowings under its \$1 billion debtor-in-possession credit facility and has obtained support from key economic stakeholders, as well as approval from the U.S. Bankruptcy Court for the Eastern District of Virginia, Richmond Division, to complete the acquisition. The transaction, which is expected to close before the end of the first quarter 2021, remains subject to customary closing conditions and certain regulatory approvals. Gogo, which will remain a public company, will use the proceeds from the transaction to improve its net debt position and continue to invest in growth opportunities such as Gogo 5G. With greater financial flexibility, including a lower cost of capital over time, the new Gogo will be better positioned to enhance the scale and profitability of its Business Aviation (BA) segment, which is uniquely well-positioned in an attractive and underpenetrated market. Intelsat intends to operate the CA business as an independent business unit, led by current CA President John Wade. The CA business will remain based in Chicago.

Viasat Receives Supplemental Type Certificate to Provide High-Speed In-Flight Connectivity on Gulfstream G650 and G650ER Large Cabin Business Jets

August 26, 2020 - Viasat Inc. announced its business aviation in-flight connectivity (IFC) system received Supplemental Type Certificate (STC) from the Federal Aviation Administration (FAA) through Gulfstream Aerospace Corp., certifying the use of its Ka-band IFC system on the Gulfstream G650™ and Gulfstream G650ER™ business jets. When combined with its prior FAA STC for the Viasat Ku-band system, Gulfstream operators get a powerful tail-mounted Dual-band (Ka-Ku) service offering. Receiving the Ka-band STC

ensures passengers and crew flying on Gulfstream's G650 and G650ER receive a premium cabin internet experience over the most heavily traveled flight routes. Viasat's expanding Ka-band coverage combined with its recent announcement of no speed caps across all Ka-band service plans, will allow Gulfstream G650 and G650ER operators to experience home-like performance in the sky with the fastest available download speeds in the large cabin business jet segment. This in turn will enable passengers and crew to simultaneously enjoy data-rich, business-critical productivity and entertainment apps from video-conferencing and accessing VPN/cloud content to email, high-definition streaming services, live TV and more.

Kymeta Corporation Secures Approximately \$85 Million Financing Round to Accelerate Growth

August 26, 2020 - Kymeta Corporation, the communications company making mobile global, announced the recapitalization of the company along with the successful funding raise of approximately \$85 million, led by Bill Gates with members of the leadership team personally investing approximately \$1 million led by Executive Chairman, Doug Hutcheson. Since its launch of the revolutionary electronically steered flat panel antenna platform, Kymeta™ continues to strengthen and accelerate new product development and commercialization for satellite and cellular communications globally. Meeting the needs of current and future customers drives new product innovation and market development and are key areas of focus for Kymeta.

ST Engineering iDirect Collaborates with Paratus and KNS to Bring Reliable, High-speed Connectivity to Mining Vessels

August 25, 2020 - ST Engineering iDirect, a company of ST Engineering North America, today announced that its long-term customer Paratus, a pan-African telecommunications group which provides satellite connectivity across Africa, has deployed its iDirect modems with marine antenna from manufacturer and integrator KNS, to provide reliable, high-speed connectivity to mining ships based in Guinea, West Africa. The vessels and their crew require constant and reliable communications to keep in permanent contact with their headquarters on land, and with other shipping vessels during operations at the Boffa port in Guinea, where 3G/4G connectivity is poor and internet services are limited. The ships were installed with the iDirect modem and KNS 1.2m Maritime Antenna Z12Mk2 in Shanghai, China, enabling bandwidth-intensive applications including video, email and WeChat to be run. Paratus remotely configured the modems and commissioned the antennas for the ships when they arrived in Boffa. Commissioning is completed with the ships being operational.

New Solution Boosts IoT Device Connectivity

August 25, 2020 - Inmarsat has teamed up with CPN Satellite Services and MinFarm Tech to launch the MF 400 IoT Satellite Bridge incorporating its IsatData Pro (IDP) service. The solution enables data from Internet of Things (IoT) sensors operating on LoRaWAN™ low power wide area networks to be optimised for transmission over Inmarsat's IDP, which will bring much-needed additional connectivity to IoT devices deployed in remote locations across a range of different sectors. The success of a remote operation – such as dam monitoring or agricultural resource management – depends on having robust, reliable equipment in place to do the job. IoT devices are having a significant impact in this area, due to their ability to record and transfer data in a way that reduces the need for expensive on-site visits and lowers overall maintenance costs. However, operating in remote regions means that backhauling data from LoRaWAN™ networks is not always possible via terrestrial connectivity so posing a connectivity challenge for organisations.

RBC Signals and Momentus Announce Global Ground Services Agreement

August 25, 2020 - RBC Signals announced the company has been engaged by Momentus for satellite communication services. The agreement calls for Momentus to utilize assets within the RBC Signals global ground station network for satellite communication services in support of a series of upcoming Momentus missions scheduled to begin in 2021. Momentus is a Space Transportation and Space Logistics company employing new and proprietary technologies, including water plasma propulsion, to enable revolutionary low-cost orbital shuttle and charter services. The core of Momentus' business is Vigoride, a transfer vehicle delivering smallsats to custom orbits in LEO. The 2021 missions that RBC Signals will support are important for multiple companies and researchers whose satellites will be delivered to orbit on larger rockets via ridesharing. RBC Signals' support and technology will help power Momentus' value proposition of transporting these smallsats to a final intended orbit in an extremely cost-efficient manner.

Inmarsat Joins Forces with CPN and MinFarm to Simplify Connecting Low-power Wide-area Networks to Satellite

August 25, 2020 - Inmarsat has teamed up with CPN Satellite Services and MinFarm Tech to launch the MF 400 IoT Satellite Bridge incorporating Inmarsat's IsatData Pro (IDP) service. The solution enables data from IoT sensors operating on LoRaWAN™ networks to be optimised for transmission over Inmarsat's IDP service, which will bring much-needed additional connectivity to IoT devices deployed in remote locations across a range of different sectors. The success of a remote operation – such as dam monitoring or agricultural resource management – depends on having robust, reliable equipment in place to do the job. IoT devices are having a significant impact in this area, due to their ability to record and transfer data in a way that reduces the need for expensive on-site visits and lowers overall maintenance costs. However, operating in remote regions means that backhauling data from LoRaWAN™ networks is not always possible via terrestrial connectivity so posing a connectivity challenge for organisations. The MF 400 IoT Satellite Bridge offers organisations an off-the-shelf and ready-to-use solution to meet these challenges, simplifying the connectivity between sensor and application. Powered by a single 80W solar panel and with battery backup capacity of 2-3 days, the device uses protocol optimisation to forward sensor payload traffic over the high-latency, non-IP packet data satellite services of the Inmarsat IDP. This ensures unrivalled global connectivity, while keeping airtime costs per sensor to a minimum, lowering the complexity of installation and reducing the power requirements at the Edge.

AAC Clyde Space, Saab and ORBCOMM to Bring the Next Generation of Maritime Communications

August 24, 2020 - AAC Clyde Space AB, SAAB AB and ORBCOMM Inc. have today announced the development of the next generation of space based VDES system, marking the beginning of a new era in maritime communications. AAC Clyde Space AB will receive 17.0 MSEK in total, of which 12.2 MSEK is in the form of a grant from the Swedish Transport Administration, to finance the building, launch and commissioning of the first satellite in the project. This is intended to be the first satellite of a future constellation to provide a VDES service. The EPIC 3U satellite is planned to launch in mid-2022 and will be the first satellite assembled at AAC Clyde Space's new integration facility in Uppsala. The satellite will carry a VDES (VHF Data Exchange System) payload from Saab for two-way communication between satellite and ground. ORBCOMM will integrate the data in its distribution centre for maritime communications.

Nokia and StarHub Conduct First Live 5G Non-standalone Network Trial in Singapore

August 20, 2020 - Nokia and Singapore-based operator StarHub are conducting South East Asia's first live 5G non-standalone (NSA) network trial across Singapore, running until 16 February 2021. With StarHub as the first and early adopter of 5G services in Singapore, long-standing partners StarHub and Nokia have achieved another milestone. By leveraging existing 4G infrastructure, the trial 5G network will allow StarHub to provide higher data bandwidth and reliable connectivity to its subscribers without a major infrastructure overhaul. The network utilizes Nokia's end-to-end core and radio solutions, enabling the efficient use of spectrum to deliver 5G services. The 5G NSA network will enable StarHub customers to enjoy early benefits of 5G, with enhanced coverage and performance to improve user experience at major residential and commercial hubs of Singapore. StarHub will progressively expand the 5G NSA network coverage and expects it to reach 70 percent by September 2020. This follows StarHub's recent announcement that it has chosen Nokia as a preferred 5G technology partner for deploying mmWave solution and 5G Standalone (SA) Core network.

MediaTek Conduct World's First Public Test of 5G Satellite IoT Data Connection with Inmarsat

August 19, 2020 - MediaTek is pushing the boundaries of advanced IoT 5G satellite communications with a successful field trial that transfers data through Inmarsat's Alphasat L-band satellite, in Geostationary Orbit (GEO) 35,000 kilometers above the equator. The results of MediaTek and Inmarsat's IoT field test will be contributed to the 3rd Generation Partnership Project (3GPP)'s Rel-17 standardization work on Non-Terrestrial Network (NTN), which is part of its overarching initiative to establish 5G standards toward new use cases and services. The new 5G satellite NB-IoT technology established a bi-directional link from MediaTek's satellite-enabled standard NB-IoT device to a commercial GEO satellite, breaking new ground for a truly global IoT coverage. The successful test builds the foundation for hybrid satellite and cellular networks to enable new ubiquitous 5G IoT services at a global scale. MediaTek is the world's 4th largest fabless semiconductor company and Inmarsat is the world leader in global, mobile satellite communications. The two companies ran the test with a base station located at the Fucino Space Center in Italy and developed by Taiwan's Institute for Information Industry (III). The test device, built with MediaTek's satellite-enabled NB-IoT chipset, was located in Northern Italy. The prototype system

successfully established a communication channel and data transfer with the GEO satellite 'Alphasat'. The successful test could provide proof as to the feasibility of new global standards and open market potential of using a single device for connecting both satellite and cellular networks.

Kymeta Acquires Lepton Global Solutions

August 18, 2020 - Kymeta Corporation has announced the successful acquisition of Lepton Global Solutions, which will become a wholly owned direct subsidiary of Kymeta Corporation. Established in 2013, Lepton Global Solutions is a leading provider of satellite-based customized turnkey communications solutions and services with expertise in the Intelligence Community (IC), Special Operations Command (SOC) and other government sectors. Acquiring Lepton combines critical capabilities and strengthens Kymeta's ability to pursue key opportunities with U.S. defense and government customers in locations around the world. As a rapidly growing satellite communication services provider with a global and scalable network infrastructure, the company provides customized end-to-end connectivity solutions that can be deployed quickly and efficiently to meet the needs of customers wherever they are located. Lepton currently hosts Kymeta's satellite connectivity solutions. As a combined entity, the new offerings and capabilities bring unique, complete, bundled solutions to the market based on best-in-class technologies and tailored customer-centric services that meet and exceed customer mission requirements.

IEC Telecom & Thuraya Empower Critical Humanitarian Operations with High Bandwidth via a Portable Rapid Deployment Kit

August 19, 2020 - Global satellite communications specialist IEC Telecom, along with mobile-satellite service provider Thuraya, introduced its Rapid Deployment Kit (RDK), designed to provide Humanitarian Response Teams with reliable connectivity during COVID-19 and support emergency and disaster relief efforts even in the most remote areas. With over 126 million people in need of humanitarian assistance globally, including 70 million forcibly displaced, governments and the global community are stressing the significance of on-time medical and humanitarian responses. The RDK solution enables frontline workers to respond immediately and effectively to mitigate the wider secondary impacts of the pandemic. RDK is a technological breakthrough, powered by Thuraya broadband terminals and the OneGate Aid Compact network management system from IEC Telecom. The new solution provides field missions with a VSAT-like experience anywhere they go. RDK is equipped with bandwidth optimization and advanced filtration tools, offering a user experience up to 2+ Mbps, which allows taking full advantage of digitalization, including videoconferencing, remote maintenance, telemedicine, and more for smooth communications during critical humanitarian missions.

Azercosmos with iSAT Africa to Provide Satellite Services via Azerspace-2 in Africa

August 14, 2020 - Azercosmos established a cooperation with iSAT Africa, the leading data, video and internet service provider serving Telco's, ISP's, Media companies, Enterprise Govt and others in Africa and Middle East. iSAT Africa services include MPLS, SDWan, Media solutions, OTT using terrestrial and satellite technologies. According to the agreement, iSAT Africa will meet the growing demand for telecommunications in various parts of Africa, that can't be served using terrestrial, via the resources of Azerspace-2 satellite. iSAT Africa will use the capacity of the Azerspace-2 satellite to provide various satellite solutions, in addition to data and video services provided to 90% of the African region.

Speedcast Receives US\$395m Equity Commitment

Aug 13, 2020 - Speedcast International Limited has received a US\$395 million equity commitment from Centerbridge Partners, L.P. and its affiliates, one of its largest lenders. The commitment would support a plan of reorganisation, which has the support of both Centerbridge and the Company's Official Committee of Unsecured Creditors. Centerbridge's proposed US\$395 million equity investment provides the opportunity for Speedcast's existing secured lenders to participate in the equity commitment on a fully pro-rata basis to support Speedcast's emergence from its reorganisation under Chapter 11 of the US Bankruptcy Code. During the completion of the Chapter 11 process and under the new ownership structure, Speedcast remains focused on supporting the connectivity needs of its customers and fully intends to continue its global operations uninterrupted.

Iridium Announces Beta Partners to Validate its New Iridium Edge® Solar Remote Asset Management Device

Aug. 13, 2020 - Iridium Communications Inc. announced six beta partners for its newest out-of-the-box satellite IoT device, the Iridium Edge Solar – an intelligent, secure and maintenance-free solar-powered remote asset management device with over-the-air configuration capabilities. The six companies selected

to participate in beta testing include CLS Telemetry, Everywhere Communications, Marlink, M2M Connectivity, Rock Seven, and Tesacom. These companies represent some of the most innovative of the over 450 partners that are licensed to create Iridium® network-based solutions. As part of this process, Iridium Edge Solar is undergoing a multi-continent deployment that will push the device's limits for applications including Vessel Monitoring Systems (VMS), fisheries management, asset tracking including freight and containers, oil and gas and heavy equipment telematics data reporting. In addition, Bluetooth Low Energy (BLE)-enabled smart device applications are being tested to allow users to maintain remote asset management and monitoring from their smartphone and/or tablet. Unlike competitive satellite GPS tracking products, Iridium Edge Solar enables real-time, two-way communication, over-the-air configuration changes and local wireless capabilities over BLE – anywhere in the world.

IPSTAR: The World's First High Throughput Satellite Celebrates 15 Years of Excellence

August 11, 2020 - On 11 August 2005, IPSTAR roared into orbit and the satellite industry was not the same again. The launch of the IPSTAR broadband satellite, to this day 15 years ago exactly, marked the introduction of broadband satellite services in Asia Pacific. With IPSTAR, Thaicom was the first operator in the world to develop and launch a High Throughput Satellite (HTS). In the years to come IPSTAR would connect hundreds of thousands of users in underserved and unserved areas across Asia Pacific to broadband internet. IPSTAR has been the region's leading broadband satellite platform, underlining Thaicom's innovative and pioneering role in the satellite industry. IPSTAR was built by US-based Space Systems Loral, the satellite manufacturer who developed and designed the satellite's core technologies. At the time of launch, IPSTAR was the heaviest commercial GEO satellite ever orbited with a launch mass of nearly 6,500 kg. It was also the first satellite to achieve a maximum 45 Gbps of bandwidth capacity.

Ovzon Expands Reach and Capacity through Intelsat Agreement

August 11, 2020 - Ovzon and Intelsat have entered into a four-year agreement where Intelsat will provide service to Ovzon via three powerful steerable beams on the Intelsat 39 (IS-39) and Intelsat 37 (IS-37) satellites. The agreement replaces and expands the current agreement for capacity on IS-39. The agreement enhances Ovzon's offerings with additional capacity and expanded coverage and reach. Combining the power, resiliency, and flexibility of Intelsat's steerable beams with Ovzon's managed service and ultra-small terminals will provide unprecedented high throughput to small end-user terminals that are used by teams or large headquarters conducting disaster response, defense operations, and other mission-critical activities requiring unfettered access to information at the tactical edge. Ovzon's current service offering, through leased capacity, will be significantly expanded with the launch of the new satellite, Ovzon 3, in 2021. Ovzon 3 will provide dramatically enhanced performance and functionality and is an important step to further revolutionize mobile broadband by satellite, offering the highest bandwidth with the smallest terminals. Ovzon 3 is the first of a number of satellites planned for Ovzon's high-end, global service.

COMNET Extends SES Networks' Connectivity Solutions over Latin America

August 11, 2020 - COMNET, one of Guatemala's leading service providers, will leverage SES Networks' Signature Enterprise Solutions and the SES-14 satellite to extend and enhance its high-performance next-generation broadband service QUANTTUM across Latin America, SES announced today. Extending its business relationship with SES that spans more than 10 years, COMNET already provides a carrier-class managed services platform on SES-10 and utilizes other SES satellites to deliver reliable connectivity services to underserved areas in Central America. The extended partnership comes under the SES Partner Programme, which recognises partners as trusted advisors to end-customers. As a certified partner for delivering SES Networks' Signature Solutions, COMNET will now use the expanded coverage of two satellites, SES-10 and SES-14, gaining access to dedicated bandwidth, flexibility in service design, and teleport operations to ensure high reliability and outstanding quality of service for customers in industries such as energy, agriculture, construction and government.

KSAT to Support Norway's First Hyperspectral Smallsat Mission

August 11, 2020 - KSAT has signed a contract for ground station support of HYPSON-1, a Smallsat mission from the Norwegian university of science and technology (NTNU), aiming to detect toxic algae blooms. This is the first time KSAT provides ground station services to a Norwegian university mission. At NTNU Small Satellite Lab, a multi-disciplinary team of master students, PhD-students and professors are currently working on a small satellite with a miniaturized hyperspectral camera for detection of toxic algae blooms along the Norwegian coast. KSAT will as part of this contract, provide commercial ground station services from the Svalbard Ground Station for this mission, called HYPSON-1. KSAT is well known for

providing fast and reliable space to ground services. By using the unique ground station at Svalbard, KSAT ensures fast access to the time-critical data.

Gilat Awarded over \$10 Million for a Five-Year Service Project for 4G Backhaul Services in Latin America

August 10, 2020 - Gilat Satellite Networks Ltd., a worldwide leader in satellite networking technology, solutions and services, announces the award of over \$10 Million for a five-year service project for 4G backhaul services in Latin America. The contract calls for providing coverage to half a million people in hundreds of sites in rural areas, with significant expansion potential valued at additional tens of millions of dollars over time. Gilat is working closely with the government and the private sector to provide connectivity this year to hundreds of villages via the 4G network. Gilat is heavily engaged in supplying the population with broadband connectivity and access to applications such as e-health and e-education. Furthermore, four hundred additional villages are expected to be connected next year.

US Tier-1 Mobile Operator Awards Gilat a Contract for Cellular Backhaul

August 6, 2020 - Gilat Satellite Networks Ltd., a worldwide leader in satellite networking technology, solutions and services, announces the award by a Tier-1 Mobile Network Operator (MNO) in the United States, of a multi-million-dollar service contract for cellular backhaul. The US Tier-1 MNO provides nationwide coverage with its LTE network that is extended with Gilat's cellular backhaul solution over satellite. Gilat's solution enables reach to remote areas and ensures high quality service and an excellent user experience. Gilat completed the LTE cellular backhaul satellite migration project according to schedule, during these challenging times imposed by the COVID-19 pandemic.

Integrasys's Beam Budget Ready for LEO and Flat Panel Antennas

August 6, 2020 - Nowadays, the Broadcasting and Telecommunications Industry is witnessing a new era, due to the arrival of LEO, MEO, and flat panel antennas. The new goal of the market is to look for solutions to achieve the effective use of the spectrum and provide higher bandwidth for matching the demand with reliable network technology. Flat panel antennas are designed to fit in more types of platforms with its low profile and its flat surface, installations can become easier and faster. The greatest advantage of flat panel antennas is the ability to create Multibeams, which are able to point different constellations. At this part is where LEO satellites come on stage, the complexity of this communication system lies in their orbital movements which enables them to reduce the latency between devices. Therefore, flat panel antennas would be ideal to make this connection happen, as they can point to multiple satellites simultaneously. For instance, Connected Car is an application that will drive the flat panel antennas to a privileged position within the industry. Regarding the development experienced by the industry, the calculation of Link Budget becomes harder with LEO satellites and it was impossible to find tools that were able to control these new antennas and these satellite networks to be placed around the Planet Earth. Integrasys created Beam Budget, the unique and only technology solution that enables us to accurately calculate Link Budgets supporting LEO constellation and flat panel antennas. Beam Budget has the availability for any frequency band, including Q and V whose high frequencies are more affected by atmospheric events. Thanks to Beam Budget small satellites constellations can design better, easier, and more effectively their networks for their constellations, and service providers can compare constellations and services before they choose the right partner.

ThinKom Wins Defense Innovation Unit Contract

August 6, 2020 - The Defense Innovation Unit (DIU) has awarded a contract to ThinKom Solutions to test and evaluate one of the company's commercial off-the-shelf (COTS) aeronautical phased-array antenna systems as a solution for next-generation communications on U.S. Navy ships. Under the seven-month contract, ThinKom is delivering a ThinAir® Ka2517 antenna system for on-board testing to meet U.S. Navy requirements for Multi-Domain Tactical Communications (MDTC). The Ka-band antenna, based on the company's patented VICTS technology, will demonstrate the capability to be integrated onto a U.S. Navy ship. A concurrent design study phase will evaluate performance modifications requested by the Navy. ThinKom's industry-leading VICTS phased arrays are currently installed on more than 1,550 commercial aircraft and have accrued more than 17 million flight hours, demonstrating mean time between failure (MTBF) rates well in excess of 100,000 hours. The Ka2517 terminals are in full production and currently operational on a fleet of U.S. government aircraft.

Gilat Telecom Now Offering Intelsat FlexMove, the Industry-First Managed Service for Ubiquitous, HTS Land Mobile Connectivity

August 4, 2020 - Gilat Telecom announced it is now offering the Intelsat FlexMove managed service for ubiquitous, high-speed land mobile connectivity. With FlexMove, Gilat Telecom's customers can easily connect to the internet, private data networks and cloud services from virtually anywhere in the world, including while on-the-move, or on-the-pause at a temporary site. The "always-on" FlexMove connectivity solution from Gilat Telecom is up to 20 times faster than current mobile satellite solutions (MSS) for a fraction of the cost. It offers global, multi-layered, redundant coverage that enables even the most data-intensive applications. Gilat Telecom is now offering FlexMove service plans that are sold by the gigabyte (GB). These plans are seamlessly integrated with a portfolio of qualified satellite terminals empowering even non-technical personnel to set-up and connect to the internet in just minutes. Service plans are designed for recurring, seasonal, occasional and, event-based use. Users can pool airtime and share data costs across multiple terminals, making FlexMove a cost-effective connectivity solution for organizations with large vehicle fleets and numerous remote locations.

C-COM Receives Additional Funding for its Phased Array Antenna Technology Development

August 4, 2020 - C-COM Satellite Systems has been awarded a one million dollar non-refundable financial contribution from the Canadian Space Agency (CSA) over the next 2 years for the continued development of its phased array antenna technology. Working in partnership with a renowned research team at the University of Waterloo's Centre for Intelligent Antenna and Radio Systems (CIARS), C-COM has been developing a next generation Ka-band flat panel antenna based on advanced phased array technology for enabling high-throughput mobility applications over satellite targeting land, airborne and maritime markets. The CSA funding will be used to continue the research project of the antenna development by focusing on the development of a low-cost, modular, and conformal Ka-band antenna for the next generation mobile satellite communications. A new generation of 4x4 antenna modules will be developed based on a highly improved, power efficient, low noise and reduced cost MMIC's (Monolithic Microwave Integrated Circuits).

NSR Releases Toolkit Benchmarking LEO and MEO Satellite Constellations

August 4, 2020 - NSR's Non-GEO Constellations Analysis Toolkit, released today, provides clients with an unbiased analytical framework to conduct internal assessments of LEO and MEO high-throughput satcom. With pre-loaded datasets and logic driven by configurable filters and inputs, the toolkit delivers an output-rich set of technical and business metrics benchmarking HTS constellations' capabilities and performance. Mega-constellations comprising thousands of HTS satellites beaming globally tens of Terabits per second are poised to transform the space industry, making it imperative for planners and decision makers across all telecom value chains to quantify and visualize impacts at granularly defined levels. Through a multiplicity of configurable tools, NSR's Non-GEO Analysis toolkit puts in the hands of clients the same set of analytical instruments that NSR leverages internally to holistically assess LEO and MEO HTS in support of market research studies and targeted consulting projects.

Intellian Completes its Next Generation Global Xpress Portfolio with Inmarsat Type Approval

August 4, 2020 - Intellian is proud to launch the latest addition to its next generation GX range of antennas: the GX60NX, designed specifically and now type approved for use with Inmarsat's Global Xpress Ka-band VSAT network. This 65cm terminal, the smallest in the range, completes Intellian's GX portfolio and brings the benefits of its market leading NX antennas to all vessels using Inmarsat's Fleet Xpress service for reliable, fast connectivity at sea. Thanks to its compact size and light weight, the GX60NX is ideally suited to smaller commercial vessels, where space is at a premium but the benefits offered by the latest technology are still required. The new form factor supports customers across all markets, including leisure and fishing. The Below Deck Terminal (BDT), single cable antenna connection and AptusNX control software are identical to those used for the larger GX100NX, which is already approved. This allows ship management companies and ship owners to benefit from the ability to work with a standard platform across diverse fleets.

Astrocast and KSAT Announce New Partnership Agreement

August 4, 2020 - Astrocast and KSAT have been working together for more than two years on the Astrocast Network's precursor and In-Orbit-Demonstration missions. Astrocast will make use of the scalable ground network offered by KSAT which is optimized for large constellations of small satellites. This partnership signifies a new phase as Astrocast prepares for commercial availability at the end of 2020. The current KSAT and Astrocast collaboration at the Svalbard ground station has demonstrated the importance of this polar location, giving Astrocast the ability to continuously access their nanosatellites. This initial collaboration has paved the way for the future commercial operation of Astrocast via KSAT ground

stations, ensuring the interface compatibility between the KSAT ground stations and Astrocast nanosatellites and the service control center. The KSATlite network can support multiple satellites at several antennas across various sites – sometimes simultaneously. Leveraging an up-to-date Application Programming Interfaces (API), Astrocast will interface directly with the KSATlite scheduling database and real-time monitoring equipment from the cloud. Currently supporting more than 10'000 contacts per month, KSAT's lite-network is continuously expanding to deliver the most comprehensive ground solution in the market today – growing both the number of antennas as well as their geographical footprint.

Comtech Seeks Russian Regulatory Approval

August 3, 2020 - Comtech Telecommunications Corp. reported that its pending acquisition of UHP Networks Inc. ("UHP") continues to progress through the regulatory approval process. As previously announced, Comtech has entered into an agreement to acquire UHP, a provider of innovative and disruptive satellite ground station technology, for an aggregate purchase price of \$38.0 million, of which \$5.0 million will be paid in cash, and the remainder in shares of Comtech common stock, cash or a combination of both, as Comtech may elect at the time of closing. The transaction is subject to customary closing conditions, including regulatory approval to allow Comtech to purchase UHP's sister company which is headquartered in Moscow. Today, Comtech announces that on July 29, 2020, the Federal Antimonopoly Service (FAS) of the Russian Federation advised Comtech that its application for regulatory approval has been referred to the Commission for Supervising Foreign Investments in the Russian Federation (the "Commission") for review under Russia's Foreign Investment Law. As such, Comtech plans to submit its application for regulatory approval to the Commission as soon as possible.

Viasat Dynamic Video Encoding Enhances Satellite Connectivity for Intelligence, Surveillance and Reconnaissance Missions

August 3, 2020 - Viasat announced the availability of its Viasat Dynamic Video Encoding (DVE) capability, a new satellite communications technology enhancement that optimizes sensor data for military aircraft on Intelligence, Surveillance and Reconnaissance (ISR) missions. The new DVE capability allows aircraft to optimize their available bandwidth and video transmissions for high-speed, high-quality video feeds from the aircraft. In today's ISR missions, military aircraft often travel long legs from base to objective, where satellite return link data rates can change depending upon the location of the aircraft within the satellite footprint. As the aircraft traverse within a single beam and/or across higher data rate spot beam satellites, they are often unable to adjust sensor data rates to efficiently use the full satellite performance available. Recognizing this limitation, Viasat developed its DVE capability to optimize ISR data feeds based on satellite capability, as well as allowing this configuration-on-the-fly to occur across security boundaries.

Africa Mobile Networks (AMN) Extends Gilat's Contract of Powering Africa's Largest Satellite Cellular Backhaul Network

August 3, 2020 - Gilat Satellite Networks Ltd., a worldwide leader in satellite networking technology, solutions and services, announces the extension of Gilat's contract with Africa Mobile Networks (AMN) to power the largest satellite cellular backhaul network in Africa. AMN's network enabled by Gilat's technology serves multiple Tier-1 Telcos in over ten countries throughout Africa. "AMN has selected Gilat, due to its superior technology, to further extend Africa's largest satellite cellular backhaul network constructed by AMN and powered by Gilat's VSAT technology," said Michael Darcy, CEO AMN. "We are pleased to contribute to closing the digital divide by furthering the reach of our network to additional countries reaching more of the population in rural areas." "Gilat is honored to enhance its long-standing partnership with AMN and to have been selected once again to provide high-quality solutions for cellular backhaul over satellite to serve Tier-1 Telcos coverage throughout Africa," said Michal Aharonov, VP Global Broadband Networks at Gilat. "Gilat has provided over 2,000 VSATs to AMN and is pleased to participate in plans of site migrations from 2G/3G to 4G, as the requirement for data communication is rising."

Inmarsat to Maritime Launch 'Crew Welfare Open Innovation Challenge'

August 3, 2020 - Inmarsat has joined forces with Shell Shipping and Maritime and maritime digital consultancy Thetius to launch a new 'Open Innovation Challenge' for start-ups and small and medium sized enterprises (SMEs). The Challenge aims to identify technology that can benefit crew safety, health and wellbeing at sea at a moment when COVID-19 has exposed the welfare of seafarers to global scrutiny. The six-week Open Innovation Challenge is looking for novel solutions that have the potential to improve crew safety and welfare across four innovation challenge areas spanning deck safety, fatigue, administration reduction and overall wellbeing. From the submitted applications a shortlist will be generated. The successful solutions will be invited to pitch their idea to a decision-making jury at the end

of September. The majority of the jury will be made up of serving seafarers, with representatives from Inmarsat, Shell Shipping and Maritime and the welfare sector also taking part. The team behind the chosen idea will be awarded a £10,000 GBP cash grant to test their idea by implementing a proof of concept onboard a vessel and the winning start-up will also receive support from Shell Shipping and Maritime, Thetius and Inmarsat.

Spacecom and Gilat Telecom Join Forces to Improve Satellite Services in Africa

August 3, 2020 - Spacecom, operator of the AMOS satellites fleet, and Gilat Telecom announced that they have partnered to develop a faster, more reliable and more cost-effective satellite service for organisations of all sizes across Africa. The service uses Spacecom's AMOS-17 fully digital and advanced High Throughput Satellite (HTS), on both C and Ku band and Gilat Telecom's unique SD-WAN MAX technology. It is available immediately and can be used for home and office connectivity including video conferences, e-health applications, e-learning, e-education, etc. Spacecom's AMOS-17's HTS fully digital payload enables Cross-Connection between all beam and all bands enabling the use of the existing equipment that can be also set-up remotely by the end customers (on existing or new terminals). Using Gilat Telecom's intelligent routing, capacity can be expanded by up to 20% (the equivalent of 6 Mbit/s can be achieved from a 5 Mbit/s downlink). Gilat Telecom's SD-WAN enables service providers and MNOs to centrally control the route that both satellite and fiber traffic takes to and from the customer. It enables different applications – voice, streaming, caching (Facebook, Netflix, Microsoft cloud services etc.) - to be identified with automatic prioritisation, according to the customer's needs and demands.

BROADCAST

Av-Comm to Provide Satellite Communication Equipment and Technology to Support PacificAus TV throughout the Pacific

August 28, 2020 - PacificAus TV has partnered with Av-Comm in an initiative to provide audiences in Fiji, Kiribati, Nauru, Vanuatu, Tuvalu, the Solomon Islands, and Papua New Guinea, free access to premium Australian television content delivered by satellite. Av-Comm was selected to provide the satellite television reception equipment to broadcasters in their respective countries including a decoder and networking router. Some broadcasters did not have satisfactory satellite receiving facilities so a new commercial grade C Band satellite dish, Av-Comm C Band filtered LNBS, and mounting hardware was also supplied. Additionally, Av-Comm is providing PacificAus TV with real-time 24/7 monitoring of the network via Av-Comm's advanced cloud-based Network Monitoring System providing Free TV with visibility and remote-control access across the network. Australian commercial television programming will be delivered to viewers in the Pacific with 1000 hours of premium content including lifestyle programs, factual programs, children's programs, drama, reality TV and sport being delivered each year. This initiative will allow Av-Comm to provide support to Pacific Islands broadcasters using their satellite and technical resources, designed to meet and exceed evolving broadcasting needs for the area. PacificAus TV is the result of a partnership between Free TV Australia and the Australian Government, which has sourced content from Australian commercial television free-to-air networks and other providers to supply content across the Pacific. The aim of the service is to enhance Australia's engagement in the Pacific.

Spacecom and NOVELSAT Demonstrate High-Volume Video Delivery over AMOS-17 Satellite for 5G Networks and Wi-Fi Hotspots

August 17, 2020 - Spacecom and NOVELSAT announced the successful demonstration of end-to-end video delivery over AMOS-17 high throughput satellite, from network core to network edge, serving user devices over a wireless network and showcasing high-quality user experience. The demonstration illustrated a complete network architecture for the delivery of Over-The-Top (OTT) live video content to multiple user devices, using NOVELSAT's video processing and delivery solution over Spacecom's AMOS-17 fully digital satellite operating live multi-band broadcasting. NOVELSAT Video Core Cloud staged content acquisition from multiple sources in multiple formats, performing multi-channel transcoding to HEVC and satellite modulation utilizing NOVELSAT NS4TM bandwidth-efficient waveform, and transmitting a single high-quality profile of each video channel. NOVELSAT Video Edge Gateway displayed content processing and delivery, demodulating the satellite transmission, executing decoding and transcoding, generating multiple video profiles, performing multi-profile packaging and delivering live video streams to user devices at network edge over a wireless network. Spacecom AMOS 17 digital satellite powered the space segment of the demonstration, providing highly efficient connectivity from the satellite to the terrestrial network edges, interconnecting the video cloud core to the video edge gateway. The demonstration highlighted the benefits, in terms of bandwidth efficiency, delivery cost and end-user Quality of Experience (QoE), of using

satellite-based video delivery for distributing high volumes of live video content to cell sites and Wi-Fi access points. Bypassing terrestrial backhaul network congestion and performing transcoding and packaging at the edge, enable OTT delivery of high quality and low latency live IP video streaming to any device, and at the lowest investment in network infrastructure.

ViacomCBS Networks International Selects Intelsat for Video Distribution to Major Global Markets

August 11, 2020 - Intelsat has been selected to continue distributing content for ViacomCBS Networks International (VCNI) in Central Europe, Eastern Europe and across the Asia Pacific region. Intelsat was chosen for its unique ability to deliver managed media services, global coverage and integrated satellite distribution and terrestrial network. VCNI delivers premium content through notable brands such as BET, MTV and Nickelodeon to a worldwide audience of billions across both traditional and emerging platforms. In the Central and Eastern European market, VCNI harnesses the extensive reach of Intelsat's direct-to-home (DTH) platform on the 1 West video neighborhood to deliver its premium programming. The Intelsat 1 West neighborhood can reach more than 17.8 million viewers across the region. In Southeast Asia, VCNI leverages the Intelsat 19 (IS-19) satellite to serve its distribution affiliates, including cable headends, throughout the region. The IS-19 video neighborhood can reach up to 70 million viewers in Asia Pacific. VCNI will also continue to utilize Intelsat's terrestrial uplink services to distribute its video content across key Asian and Central and Eastern European markets, including remote and hard-to-reach areas.

BluTV Leverages Unique Coverage of EUTELSAT 65 West A to Launch New Brazilian Broadcast Platform

August 10, 2020 - 1Sat Telecomunicações launches BluTV, a new Direct to Home broadcast platform dedicated to the Brazilian market, leveraging the unparalleled coverage of Eutelsat Communications' EUTELSAT 65 West A satellite. BluTV's basic offer will include over 100 channels of films, series, sports, lifestyle, culture and news, broadcast in a mix of standard and high definition. EUTELSAT 65 West A is a tri-band satellite designed targeting the fast-growing broadcast markets across Latin America. Its high-power Ku-band payload enables DTH reception of digital and HD channels across Brazil.

INVIDI Technologies Extends Successful Relationship with Tata Elxsi

August 3, 2020 - INVIDI Technologies and Tata Elxsi announced an expansion of their relationship to bring addressable television capabilities to pay TV operators in India, Asia-Pacific and MEA. INVIDI Edge™ is a market-leading combination of single view addressability across both OTT and linear TV audiences, providing a one-stop solution for pay TV operators and premium video publishers. INVIDI Edge™ supports all premium video distribution schemes: satellite, cable, IPTV, AVOD, OTT. INVIDI Edge™, INVIDI's patented addressable television solution, is uniquely able to work in the satellite distribution environment on non-connected set top boxes, which in India represents the largest segment of pay TV boxes. With over 160 million subscribers, India is one of the world's largest pay TV markets. As linear advertising revenues remain under pressure due to the increasing shift of advertising spend to digital platforms, pay TV operators in emerging markets like India, Asia-Pacific and MEA regions can now offer their broadcast partners targeting and addressability, thus increasing revenue potential. Tata Elxsi has been at the forefront of enabling digital transformation for leading pay TV operators and media companies across the world, helping them develop, integrate and manage innovative services and applications that deliver new revenue streams and great viewer experience.

LAUNCH / SPACE

Rocket Lab Successfully Deploys Satellite for Capella Space on 14th Mission

August 31, 2020 - Rocket Lab has successfully launched its 14th Electron mission and deployed a single microsatellite for Capella Space. The mission was Rocket Lab's fourth this year and takes the company's total number of satellites deployed to 54. The 'I Can't Believe It's Not Optical' mission launched from Rocket Lab Launch Complex 1 on New Zealand's Māhia Peninsula at 03:05 UTC, 31 August 2020. Electron successfully deployed a single microsatellite to a circular orbit at approximately 500 km for Capella Space. Capella's 100kg class Sequoia payload is the first synthetic aperture radar (SAR) satellite to deliver publicly available data from a mid-inclination orbit over the U.S., Middle East, Korea, Japan, Europe, South East Asia, and Africa, and is powered by technology that can detect sub-0.5 meter changes to the Earth's surface from space. As the first publicly available satellite in orbit as part of Capella Space's constellation, Sequoia will provide insights and data that can be used for security, agricultural and infrastructure monitoring, as well as disaster response and recovery. Today's dedicated mission for Capella Space also marks the successful return to flight for the Electron launch vehicle fewer than 9 weeks since the company

experienced an anomaly on July 4th during its 13th launch.

AAC Clyde Space Wins Two Japanese Orders

August 31, 2020 - AAC Clyde Space has received two new orders, totaling 360 000 EUR (approx. 3.7 MSEK) for Sirius avionics from customers in Japan. The hardware will be delivered during the fourth quarter of 2020 and software updates will be delivered in the first quarter of 2021. These are follow-on orders from existing customers. The Sirius avionics products are an increasingly popular choice for high quality "New Space" missions, offering a high quality and easy to interface standard solution for on-board data handling, with short delivery times and at a competitive price. Japan is one of the world's leading markets for small satellites, increasingly using these highly capable, sophisticated and cost effective spacecraft to fulfil a wide variety of missions. AAC Clyde Space has supplied subsystems and components for many of these over the last few years, showing the trust placed by Japanese manufacturers in our products.

SpaceX Falcon 9 Launches SAOCOM 1B

August 30, 2020 - On Sunday, August 30 at 7:19 p.m. EDT, or 23:19 UTC, SpaceX's Falcon 9 successfully lifted off carrying the SAOCOM 1B mission. This mission put the SAOCOM 1B spacecraft into orbit as well as two rideshare payloads, Tyvak-0172 and PlanetiQ's GNOMES-1. The mission lifted off from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station in Florida. This mission marks SpaceX's first launch to a polar orbit from the East Coast, and the first polar launch from Florida in decades. Falcon 9's first stage previously launched Dragon to the International Space Station for SpaceX's 19th and 20th commercial resupply missions, and it also supported launch of SpaceX's ninth Starlink mission. Following stage separation, SpaceX landed Falcon 9 on Landing Zone 1 at Cape Canaveral Air Force Station. SAOCOM 1B deployed approximately 14 minutes after launch. GNOMES-1 and Tyvak-0172 deployed approximately 61 and 62 minutes after liftoff respectively.

Arianespace Vega Flight VV16: New Launch Opportunity Begins on September 1

August 28, 2020 - Arianespace has rescheduled the 16th flight for Vega within a launch window from September 1 to September 4, with a more than 90% probability of the launch going ahead. Flight VV16 has been pushed back several times, notably due to the persistence of exceptionally unfavorable winds aloft at the Guiana Space Center in French Guiana. With this mission, Arianespace is underscoring its comprehensive range of innovative and competitive services to address the nano- and microsatellite market sub-segment, serving both institutional and commercial needs. Arianespace has decided to resume launch preparation operations for Vega Flight VV16, aiming for a launch window between September 1 and September 4. Models of observed winds and the latest readings indicate a more than 90% chance of being able to conduct the launch into polar orbit during this window while meeting range safety regulations. For Arianespace's sixth mission in 2020, and its first Vega flight of the year, the company will orbit 53 satellites for 21 customers on the Proof of Concept (PoC) launch for the Small Spacecraft Mission Service (SSMS). Flight VV16's satellite payloads will serve a range of applications, including Earth observation, telecommunications, science, technology and education. Flight VV16 will be performed from the Vega Launch Complex (SLV) in Kourou, French Guiana.

Yahsat Signs Contract with Airbus to Build Thuraya's Next Generation System

August 27, 20120 - Airbus has been selected by Al Yah Satellite Communications Company (Yahsat) to build Thuraya 4-NGS, the next generation mobile telecommunications system that will drive the continued advancement of Thuraya's L-band business. Thuraya 4-NGS will deliver higher capabilities and flexibility while increasing capacity and coverage across Europe, Africa, Central Asia and the Middle East, enabling next generation mobility solutions for all customer segments, including defense, government and enterprise. This is a major milestone in Yahsat's commitment towards transforming Thuraya and rolling out its next-generation system, which entails a complete overhaul of its space and ground platforms, enabling a new set of services, products and solutions, across a greater coverage area. The new capabilities will drive leadership across many strategic product lines, such as maritime, IoT, and data solutions offering a wide spectrum of throughput capabilities and the highest speeds available in the market, while reinforcing Thuraya's strengths in the MSS voice market. Thuraya's next generation system will provide a world of opportunities to customers, service partners, hardware manufacturers and integrators, enhancing user experience across land, sea and air to support multiple customer segments, including government, consumer and enterprise.

SpaceX to Launch Masten Lunar Mission in 2022

August 26, 2020 - Masten Space Systems announced today that it has selected SpaceX to launch Masten

Mission One (MM1). As part of MM1, Masten's lunar lander will deliver nine NASA-sponsored science and technology demonstration experiments and several commercial payloads to the lunar south pole. Masten's first mission to the Moon, MM1 is a collaboration with NASA's Commercial Lunar Payload Services (CLPS) Project Office. The Masten XL-1 lunar lander is scheduled to touch down on the lunar south pole in 2022, carrying a suite of NASA-sponsored scientific instruments and various payloads from commercial space customers. Masten's additional capacity on its first mission to the Moon provides opportunities for commercial partners to access the resource-rich lunar south pole.

Rocket Lab to Launch Dedicated Mission for European Space Technology Company OHB Group

August 25, 2020 - Rocket Lab has announced that leading European space technology company OHB Group has signed a contract for a dedicated launch on an Electron rocket. The launch was procured through OHB Cosmos International Launch Service GmbH, the launch service division of the OHB Group. The mission will launch a communications satellite for an OHB customer and is scheduled for lift-off in early 2021 from Rocket Lab Launch Complex 1 on New Zealand's Māhia Peninsula. It is the first launch contract between Rocket Lab and OHB, one of Europe's leading space systems integrators which traditionally offers rideshare opportunities on large launch vehicles. The mission will represent a rapid turnaround time of just six months between contract signing and launch. This streamlined path to launch, combined with Rocket Lab's ability to deliver payloads to precise and unique orbits, were key factors in OHB selecting Rocket Lab as the launch provider.

SES Picks SpaceX to Launch Four Additional O3b mPOWER Satellites

August 20, 2020 - SES announced that it has selected SpaceX as a launch partner to deliver the four newly-ordered O3b mPOWER spacecraft of its next-generation Medium Earth Orbit (MEO) communications system. Just like the initial seven O3b mPOWER satellites procured, these additional four satellites will be launched into space on board Falcon 9 rockets from Cape Canaveral. A total of four Falcon 9 rockets will be used to support the deployment of all O3b mPOWER satellites. SES's O3b mPOWER fully-funded communications system comprises 11 high-throughput and low-latency satellites as well as an automated and intelligence-powered ground infrastructure. Built by Boeing, each satellite will generate thousands of dynamic beams and can deliver connectivity services ranging from 50Mbps to multiple gigabits per second to telecommunications, maritime, aeronautical, and energy, as well as governments and institutions across the world. SES has previously announced Orange and Carnival Cruises its first O3b mPOWER customers. O3b mPOWER is SES's next-generation MEO system. It is built on the proven track record of SES's current O3b constellation of 20 MEO satellites. Today, the O3b system is delivering high-performance communications services to customers operating in nearly 50 countries.

Blue Origin-led National Team Delivers Lunar Lander Engineering Mockup to NASA

August 20, 2020 - Today, the Blue Origin-led Human Landing System (HLS) National Team – comprised of Blue Origin, Lockheed Martin, Northrop Grumman, and Draper – delivered an engineering mockup of a crew lander vehicle that could take American astronauts to the Moon. The lander is set up in the Space Vehicle Mockup Facility (SVMF), NASA Johnson Space Center's (JSC) iconic Building 9. The full-scale engineering mockup showcases two elements of the National Team's multi-element architecture – the Ascent Element (AE) and Descent Element (DE). Standing at more than 40 feet, it is the Blue Origin National Team's update to Apollo's Lunar Module (LM) and will be used to validate the National Team's approaches for getting crew, equipment, supplies, and samples off and on the vehicle. The team will collaborate with NASA organizations including JSC's Astronaut Office to perform engineering and crew operations tests with astronauts aiming to fly the final system within several years.

Airbus to Build BADR-8 Satellite for Arabsat, with Optical Communications Payload TELEO

August 18, 2020 - Airbus has been contracted by Arabsat, one of the world's top satellite operators, to build BADR-8, their new generation telecommunications satellite. BADR-8 will replace and increase Arabsat's capacity and augment its core business at the BADR hotspot 26°E. The BADR-8 satellite will be based on the state-of-the-art Airbus Eurostar Neo electric orbit raising platform giving access to a wide range of launchers. BADR-8 will also include the innovative Airbus developed TELEO optical communications payload demonstrator. This payload will enable very high capacity analogue optical feeder link communications, as part of the development by Airbus of a new generation of optical communications technology in space to be integrated in its future commercial products, which is highly robust against jamming. The satellite is scheduled for launch in 2023 and its electric propulsion system will enable it to reach geostationary orbit in four to five months, depending on the type of launcher used. It has been designed to remain in service in orbit for more than 15 years. The satellite will have a launch

mass of around 4.5 tonnes and power of 17 kW. This new contract reinforces Airbus Defence and Space's position as the world's number one in electric propulsion satellites, with three full electric satellites operational in orbit and 15 additional full electric high-capacity telecommunications satellites under construction.

Exolaunch to Deliver Kepler's Next-Generation Satellites into Orbit

August 18, 2020 - Kepler and Exolaunch have signed a launch agreement for two of Kepler's 6U XL satellites. Under the contract, Exolaunch will provide launch, mission management, integration and deployment services to Kepler's satellites on a Soyuz rideshare mission, targeted for launch in September, 2020. With Exolaunch providing a quick turnaround for launch and deployment, Kepler now continues its rapid constellation development ahead of its 2020 launch plans. Kepler's two new satellites are important installments of the company's development and demonstration platforms, and both carry a high-capacity Ku-band communications system and a prototype IoT payload. The satellites will deliver additional capacity for Kepler's Global Data Service and a technology demonstration platform for Kepler's narrowband connectivity solution for Internet of Things devices. The satellites will be deployed into orbit with the EXOpod, Exolaunch's advanced cubesat deployer, that has delivered 80 cubesats into orbit to date. Exolaunch produced a custom-tailored 16U EXOpod to accommodate Kepler's 6U XL satellites. The satellites will be delivered to the launch site in Russia, where Exolaunch will conduct a launch campaign and integrate the satellites on a Soyuz launch vehicle.

Exolaunch and Glavkosmos Announce Soyuz Launch Campaign for 15 Small Satellites

August 17, 2020 - Exolaunch and Glavkosmos, a single operator of foreign commercial activities of the State Space Corporation Roscosmos, have initiated a launch campaign for 15 international small satellites onboard a Soyuz-2.1b launch vehicle with a Fregat upper stage. As soon as September 2020, Soyuz-2 will deliver a cluster of small satellites into orbit as rideshare payloads on a Roscosmos mission. Exolaunch's small satellite cluster, named "Wanderlust, Desire To Travel", includes three microsats below 100 kg and twelve cubesats for customers from Europe, Canada, the USA and the UAE. The satellites will deliver remote sensing, AIS, ADS-b and IoT data for leading New Space startups and the international scientific community. After primary payload separation, a cluster of small spacecraft will be deployed into a sun-synchronous orbit of 575 km, where it will undergo subsequent formation by the Fregat upper stage. All satellites will be integrated with Fregat and deployed into their target orbit using next-generation deployment systems developed by Exolaunch – the CarboNIX shock-free microsatellite separation systems and EXOpod cubesat launch deployers – both of which have a successful flight heritage on previous Soyuz-2 and Fregat missions. The cooperation between Exolaunch and Glavkosmos for this upcoming cluster launch comes after many prior successful collaborations, which included the joint launch of nearly 30 small satellites with Soyuz-2 in July 2019 from Vostochny and numerous other jointly implemented rideshare launches.

Triple Mission Success for Ariane 5

August 16, 2020 - On August 15 at 22:04 UTC, Ariane 5 Flight VA253 was successfully performed from the Guiana Space Center, orbiting two satellites produced by Northrop Grumman: Galaxy 30 for Intelsat, and MEV-2 for SpaceLogistics, a 100% subsidiary of Northrop Grumman; along with BSAT-4b, built by Maxar Technologies for the Japanese operator B-SAT. The Galaxy 30 UHD video distribution/broadcast and broadband satellite, built for global network operator Intelsat, will cover North America. BSAT-4b will be used for Ultra-High-Definition (UHD, 4K and 8K) direct-to-home television broadcasting across Japan, in conjunction with its twin, BSAT-4a, launched by Arianespace in 2017. Flight VA253's third passenger, the Mission Extension Vehicle-2 (MEV-2), is a satellite servicing vehicle designed to dock with satellites in orbit. It will provide life extension services. MEV-2's first customer will be the Intelsat 10-02 satellite, which has been in service in geostationary orbit since 2004 and will have its operational life extended by five years. The triple-payload launch performed with Flight VA253 to orbit two telecommunications satellites and a servicing spacecraft is a first for Ariane 5. Another important point: Flight VA253 utilized the Ariane 5 heavy-lift launcher, developed and produced by ArianeGroup, which has increased its payload capacity by 85 kg. for this flight with the introduction of a new vehicle equipment bay (VEB) – bringing total capacity for the satellite payloads to 10,200 kg. on missions to geostationary transfer orbit (GTO).

Maxar's 1300-class Broadcasting Satellite Built for B-SAT Performing according to Plan after Launch

August 15, 2020 - Maxar Technologies today announced that the BSAT-4b satellite, built for Broadcasting Satellite System Corporation (B-SAT), successfully launched today and is performing according to plan.

BSAT-4b deployed its solar arrays and began receiving and sending signals following a launch aboard an Ariane 5 rocket from the Arianespace launch base in Kourou, French Guiana. On August 16, 2020, BSAT-4b will begin firing its thrusters to begin its journey to its final geosynchronous orbit at 110 degrees East longitude. Once in service, BSAT-4b will function as a back-up geostationary satellite to BSAT-4a, also built by Maxar, and co-located at 110 degrees East longitude. Maxar completed manufacturing both BSAT-4a and BSAT-4b well ahead of schedule. BSAT-4b is equipped with 24 Ku-band transponders and weighs 3,530 kg. It is designed to provide service for 15 years or longer and is based on the world's most popular commercial communications satellite platform, Maxar's 1300-class bus, which is used by more than 90 active commercial GEO communication satellites today.

Successful Launch of Intelsat's Galaxy 30 Satellite and Northrop Grumman's Second Mission Extension Vehicle

August 15, 2020 - Intelsat has announced the successful launch of Galaxy 30, a geosynchronous communications satellite that will primarily provide high-performance television distribution service to Intelsat's North American customers. Northrop Grumman's Mission Extension Vehicle 2 (MEV-2) was part of the same successful launch today. The Intelsat 10-02 satellite is scheduled to be its first customer in early 2021. The Northrop Grumman-manufactured Galaxy 30 and MEV-2 launched on the Arianespace Ariane 5 rocket from the Guiana Space Center near Kourou, French Guiana at 6:04 p.m. EDT. Galaxy 30 separated from the rocket at 6:31 p.m. EDT, and Intelsat confirmed its signal acquisition at 7:02 p.m. EDT. Galaxy 30 is the first satellite in Intelsat's Galaxy fleet refresh plan and will replace Galaxy 14 at 125 degrees west once it is in service in early 2021. The Intelsat Galaxy fleet is the most reliable and efficient media content distribution system in North America, offering customers an unmatched penetration of cable head-ends. With C-, Ku-, Ka- and L-band capabilities, Galaxy 30 is the first four-frequency Intelsat satellite. In addition to serving Intelsat's media business customers, Galaxy 30 will also offer broadband, mobility and network services to Intelsat mobile network operator, enterprise and government customers in North America. The new satellite is also carrying a U.S. Federal Aviation Administration hosted payload for Leidos. Galaxy 30 will play an important role in Intelsat's U.S. C-band spectrum transition plan, which is accelerating America's path to 5G. Intelsat is facilitating the work of the U.S. Federal Communications Commission (FCC) in transitioning and safeguarding media services currently utilizing the lower portion of the band to make way for 5G wireless services. Intelsat is not seeking any reimbursement costs from the FCC's public auction proceeds for any aspect of the Galaxy 30 launch or relocation.

Exolaunch Signs Agreement with Rocket Factory Augsburg to Supply Commercial Launch Services

August 14, 2020 - Exolaunch has signed a wide-ranging MOU with Germany-based launch service provider, Rocket Factory Augsburg (RFA), to provide end-to-end launch services for small satellites, with Exolaunch procuring launch capacities from RFA. Exolaunch is the European leader in providing launch services, mission management, and small satellite deployment systems whose customers include startups, universities, scientific institutions, and space agencies from around the world. Since 2017, Exolaunch has helped launch nearly 100 small satellites into orbit, with 50 more small satellites to be launched before the end of 2020. Rocket Factory, a start-up backed by the German satellite maker OHB as a strategic investor and Venture Capital firm Apollo Capital Partners, currently is developing a launcher system called RFA One for small satellites with a payload performance of up to 300kg to low earth orbit (LEO). The first launch is scheduled for 2022. The company recently qualified the upper stage tank system during cryogenic tests and currently is preparing hot-fire tests of the main engine in Esrange, Sweden.

Kleos to Launch Second Satellite Cluster on SpaceX Falcon 9

August 13, 2020 - Kleos Space announces that as part of the expansion of its constellation a contract has been signed with rideshare provider Spaceflight Inc to manifest a cluster of Kleos satellites on the SpaceX Falcon 9 launch, scheduled for mid-2021. This will be the second cluster to be launched by Kleos, following the first four Kleos' Scouting Mission satellites that are in the Sriharikota Range in India, awaiting launch on PSLV C49 by the Indian Space Research Organisation (ISRO). This mission will be named Polar Vigilance Mission and is a cluster of four satellites, launching into a 500 km Sun Synchronous Orbit. The Polar Vigilance Mission will enhance the company's RF geolocation data delivered by the Kleos Scouting Mission by covering areas North and South of the Scouting Mission 37-degree inclined orbit in addition to increasing overall coverage time in the equatorial region. Kleos' objective is to own, launch and operate up to a maximum of 20 clusters of satellites creating a constellation that provides critical coverage for monitoring global events and key locations of interest.

Thales Alenia Space to Build SES-22 and SES-23 Satellites

August 7, 2020 - Thales Alenia Space has announced that it has signed a contract with SES to build SES-22 and SES-23, geostationary communications satellites. These two new satellites are designed to provide digital broadcasting services over North America. Thales Alenia Space will be responsible for the design, production, testing of the satellites and support of the payload in-orbit acceptance tests. SES-22 and SES-23 are based on the proven Spacebus 4000 B2 platform and will be 3.5-ton class satellites at launch. These satellites are the 11th and 12th satellites based on the Spacebus 4000 B2 platform to be built by Thales Alenia Space. The two satellites will help SES meet the Federal Communications Commission's accelerated C-band clearing deadlines in the United States and will contribute to the effort to clear spectrum necessary to roll out 5G in the United States.

Boeing to Build Four Additional 702X Satellites for SES's O3b mPOWER Fleet

August 7, 2020 - Boeing has received a contract to build four additional 702X satellites from SES as the leading global content connectivity provider, increases the number of O3b mPOWER satellites in its Medium Earth Orbit (MEO) to 11. These four additional O3b mPOWER satellites will enhance SES's next-generation MEO constellation throughput and efficiency as well as expand its unique capabilities to deliver connectivity services ranging from 50Mbps to multiple gigabits per second to a single user. The system will allow telecommunications companies, mobile network operators, governments, enterprises, aircraft and ship operators, and more, to connect with their core network or extend cloud access worldwide. Boeing is currently building the first seven O3b mPOWER satellites for SES. The first set of satellites will be launched in late 2021. SES' O3b mPOWER software-defined satellites are based on Boeing's multi-orbit 702X satellite portfolio, which employs Boeing's most advanced digital payload to date. The O3b mPOWER satellite constellation will integrate with existing network architectures to deliver global, end-to-end managed network services on land, sea and in the air. Additionally, Boeing and SES have agreed to collaborate to develop commercially-based service offerings and capabilities that can be derived from current and future SES MEO satellites. Working together, the companies will develop resilient, interoperable MILSATCOM-COMSATCOM architectures to provide U.S. and other government users with robust connectivity across mission domains.

SpaceX Tenth Starlink Mission Launched

August 7, 2020 - SpaceX targeted Friday, August 7 at 1:12 a.m. EDT, 5:12 UTC, for launch of its tenth Starlink mission which included 57 Starlink satellites and 2 satellites from BlackSky, a Spaceflight customer. Falcon 9 lifted off from Launch Complex 39A (LC-39A) at Kennedy Space Center in Florida. Falcon 9's first stage previously supported Crew Dragon's first demonstration mission to the International Space Station, launch of the RADARSAT Constellation Mission, and the fourth and seventh Starlink missions. Following stage separation, SpaceX will land Falcon 9's first stage on the "Of Course I Still Love You" droneship, which will be stationed in the Atlantic Ocean. The BlackSky Global spacecraft deployed sequentially beginning 1 hour and 1 minute after liftoff, and the Starlink satellites deployed approximately 1 hour and 33 minutes after liftoff. Starlink satellites were deployed in a circular orbit, as was done on the first through fourth Starlink missions. Additionally, all Starlink satellites on this flight are equipped with a deployable visor to block sunlight from hitting the brightest spots of the spacecraft - a measure SpaceX has taken as part of our work with leading astronomical groups to mitigate satellite reflectivity.

SES Selects SpaceX for Launch of New C-band Satellites

August 6, 2020 - SES announced that American launch provider SpaceX will provide launch capability for up to 3 of its C-band satellites over two launches as part of the company's accelerated C-band clearing plan. SpaceX's Falcon 9 rocket will launch two C-band satellites built by Northrop Grumman as well as provide enhanced protection to rapidly launch a contingency satellite from Cape Canaveral, Florida in 2022 allowing SES to meet the Federal Communications Commission's time-critical objective to roll out 5G services across the United States. In June, SES announced it contracted American companies Northrop Grumman and the Boeing Company to deliver four C-band satellites in accordance with SES's accelerated C-band clearing plan. These satellites will enable SES to clear 280MHz of mid-band spectrum for 5G use while seamlessly migrating SES's existing C-band customers and ensuring the continued delivery of digital television to nearly 120 million American TV homes and other critical data services. In the last few months, SES has been increasingly working with U.S. businesses across the country and investing in America in the C-band transition plan, and its long-standing relationship with SpaceX signifies its latest commitment to the U.S. SpaceX has launched six SES satellites in the last seven years.

Momentus Announces First Indian Customer, Astrogate Labs

August 6, 2020 - Momentus and Astrogate Labs, a space technology startup from Bengaluru, developing optical communication terminals and a ground network for smallsats, announced a launch service agreement for a 3U satellite to Sun-synchronous orbit (SSO), to be launched in December 2021 on the second Vigoride commercial mission, as well as a 6U option. Astrogate Labs, founded in the Fall of 2017, is developing smallsat optical terminals and a network of small-aperture optical ground terminals for a full turn-key solution for satellite communication. Astrogate will be demonstrating space-to-ground laser communications from its Optical Downlink terminal onboard the 3U satellite and has plans to further demonstrate space-to-space laser links with the 6U nanosatellite. Astrogate has long term plans to support the growing satellite downlink needs with a network of optical ground stations and in-space relays using the technologies developed in-house.

SES Selects United Launch Alliance to Launch Two C-Band Satellites to Accelerate C-Band Clearing

August 5, 2020 - SES has selected U.S.-based United Launch Alliance (ULA) to launch two C-band satellites. This launch is part of the company's accelerated C-band clearing plan to meet the Federal Communications Commission's objectives to roll out 5G services in the United States. ULA's Atlas V rocket will launch from Cape Canaveral, Florida in 2022 and carry the two stacked satellites. Earlier this year, SES contracted with American companies Northrop Grumman and the Boeing Company to deliver four C-band satellites. These satellites will enable SES to clear 280MHz of mid-band spectrum for 5G use while seamlessly migrating SES's existing C-band customers and ensuring the continued delivery of digital television to nearly 120 million American TV homes and other critical data services. ULA will launch the two C-band satellites manufactured by Boeing. SES is investing in America through its C-band transition plan and its work with large and small businesses across the country and its selection of Atlas V, an American launch vehicle launched from the American soil underlines that commitment.

Rocket Lab Increases Electron Payload Capacity, Enabling Interplanetary Missions and Reusability

August 4, 2020 - Rocket Lab announced a major performance increase to the Electron launch vehicle, boosting the company's payload lift capacity up to 300 kg (660 lbs). The increased payload mass capacity has primarily been made possible through advances in the battery technology that powers Rutherford's electric pumps. Since Rocket Lab's maiden launch in 2017, the Electron launch vehicle has boasted a payload lift capacity of 150 kg to 500 km to Sun-synchronous orbits (SSO), with a maximum lift capacity of 225 kg total to lower orbits. Thanks to the performance increase, Electron is now capable of lifting 200 kg to 500 km SSO and up to 300 kg to lower orbits. The performance improvements make it possible to launch more payload to low Earth orbit (LEO), lunar, and interplanetary destinations on expendable Electron missions, while offsetting the additional mass of recovery systems added to Electron for missions slated for recovery and re-flight. The increased performance also means that customers selecting Rocket Lab's Photon spacecraft as a satellite bus now have up to 180 kg (396 lbs) available as pure payload instrument mass, enabling more complex missions in LEO and beyond. With robust power systems, high-performance propulsion, secure data handling, and precise pointing and accuracy, Rocket Lab's family of LEO and interplanetary Photon buses offer customized spacecraft solutions to accommodate a wide range of small satellite missions.

PredaSAR Chooses SpaceX to Launch its First Synthetic Aperture Radar Satellite

August 4, 2020 - PredaSAR Corporation announced that its first of 48 advanced commercial Synthetic Aperture Radar (SAR) satellites will launch on SpaceX's Falcon 9 launch vehicle. Tyvak Nano-Satellite Systems, Inc. is the launch integration provider in addition to manufacturer of the spacecraft. As part of the agreement, PredaSAR, Tyvak, and SpaceX will be working together to optimize the deployment plan for the remainder of PredaSAR's groundbreaking constellation – the world's largest and most advanced commercial SAR satellite constellation.

Swarm Awards Contract to Exolaunch to Deliver 24 SpaceBEE Satellites into Orbit on Falcon 9

August 3, 2020 - Exolaunch signed a launch agreement with Swarm Technologies, a Mountain View based satellite company providing low-cost global connectivity for IoT devices, to launch 24 satellites aboard a SpaceX Falcon 9 rideshare mission. Under the contract, Exolaunch will provide launch, integration and deployment services to the Swarm satellites. The spacecraft will be launched to a sun-synchronous orbit on the Falcon 9 smallsat-dedicated rideshare mission targeted for launch in December 2020. Swarm enables global connectivity with the world's first low-cost satellite network. The company's goal is to provide affordable, low-bandwidth, two-way connectivity for IoT devices around the world, particularly in remote areas that lack strong communications infrastructure. Swarm supports IoT devices in agriculture,

energy, logistics, maritime, and other sectors. Overall, Swarm is planning to launch a total of 150 satellites into orbit.

EXECUTIVE MOVES

Cobham Advanced Electronic Solutions Appoints Mike Kahn as Chief Executive Officer

August 31, 2020 - Cobham Advanced Electronic Solutions (CAES), a leading provider of mission critical electronic solutions, announces the appointment of Mike Kahn as Chief Executive Officer (CEO) effective September 1, 2020. Mike takes over from Shawn Black, who is leaving the business to pursue other opportunities. Mike has held a number of senior positions within the aerospace and defense industry, and most recently served as the Sector VP and General Manager for Weapon Systems at Northrop Grumman, following the acquisition of Orbital ATK where he was President of Defense Systems. During his nearly 40 years in aerospace and defense, Mike has been the recipient of numerous awards and is widely recognized as a leader within the sector. Mike has extensive experience supporting the Department of Defense, NASA and major commercial customers in successfully delivering significant programs across manned and unmanned launch vehicles, spacecraft and satellites, strategic and tactical missiles, advanced munitions and precision weapon systems.

Speedcast Government Announces CEO Succession Plan Appointing David Myers as President

August 19, 2020 - Speedcast Government (SCG) announced today the appointment of David Myers as incoming President and presumptive Chief Executive Officer (CEO), succeeding Moe Abutaleb, its long-standing CEO. Abutaleb has served as CEO since the founding of UltiSat in 2003, through its growth and success and sale to Speedcast International in 2017. He guided the formation of a Proxy company at that time, and then led the integration of Globecom Systems and its Government-related entities after that acquisition was made by Speedcast in 2018. Myers is a recognized leader in government telecommunications with a track record of driving growth in public and private companies. He joins SCG from Peraton, a prominent national security company, where he served as President of the Communications sector, focused on advanced networks for defense, intelligence and civil customers. Myers previously served as President and CEO of Datapath, a leading provider of military-grade satellite ground systems and field services. He has held a number of senior executive roles at ITC Global, Harris CapRock, and Spacenet. Myers also served as Chairman and President of the Space and Satellite Professionals International (SSPI) industry association.

Jim McClelland Joins Maxar as Vice President of Mission Architecture

August 13, 2020 - Maxar Technologies announced it has hired space industry veteran Jim McClelland to lead its newly established Mission Architecture function. In this leadership position reporting to Maxar CTO Dr. Walter Scott, McClelland will have a role that spans Maxar's Space Infrastructure and Earth Intelligence businesses to bring the full breadth of the company's capabilities to bear for its customers. McClelland will play a key role in the company's strategic initiative to diversify the Space Infrastructure business and further penetrate U.S. civil and national security markets, responsible for leading, managing and executing the architecture and satellite system engineering activities for new mission designs. McClelland most recently served as Chief Technology Innovation Officer at Airbus U.S., Space and Defense. He has also held positions as CTO of OneWeb Satellites LLC; Vice President of Mission Engineering and Operations for Millennium Space Systems; and Vice President of Mission Assurance for Skybox Imaging, Inc. From 1996 to 2011, McClelland was a key contributor to the early success of DigitalGlobe – now part of Maxar – where he served in numerous technical and management roles.

Leadership Changes at ST Engineering Announced

August 12, 2020 - Singapore Technologies Engineering Ltd (ST Engineering) announced leadership changes that will take effect on 1 October 2020. *Lim Serh Ghee*, currently President of the Group's Aerospace sector, will assume a new role as Chief Operating Officer for the Group. His responsibilities include driving operational and cost efficiencies across the Group, and promoting further integration of the Group's business sectors. He will also oversee IT, Procurement and Estate & Facilities Management functions, and remain as a member of the Management Committee. He will step down as President of Aerospace sector upon assuming his new role. *Serh Ghee* joined the Group's Aerospace business in 1984 and had held various senior management appointments over the years. Before he became President of the Aerospace sector in December 2014, he was Chief Operating Officer and concurrently President of Defence Business of the sector from June 2010. He has been instrumental in the growth of the Aerospace business, including its expansion in China, the U.S. and more recently in Vietnam, as well as the acquisition

of MRA Systems that strategically moved the sector into the original equipment manufacturing of aircraft engine nacelle systems. *Jeffrey Lam*, currently Deputy President of the Aerospace sector will be appointed as President of the Aerospace sector. In this role, he will continue to drive the growth of the sector, focusing on enhancing its position as a global integrated aviation solution provider with original equipment manufacturing and aftermarket capabilities. Jeffrey joined the Aerospace sector in 2011, and served in various senior roles within the sector with P&L and business development responsibilities before assuming his current position in July 2018. He has operational oversight of the sector, and responsibility for continuous improvement and digitisation initiatives. Prior to joining ST Engineering, Jeffrey worked in the private and public sectors, amassing extensive experience in the aerospace industry. He had held various leadership roles in customer support, engineering, operations and general management across several aerospace domains. He will be appointed a member of the Management Committee.

Isotropic Systems Names John-Paul Szczepanik Senior Vice President of Engineering

August 11, 2020 - Isotropic Systems, a leading developer of transformational broadband terminal technologies, today announced it has appointed antenna development veteran and former Phasor CTO John-Paul (JP) Szczepanik as Senior Vice President of Engineering to spearhead the engineering development of the company's multi-beam terminal leading to commercial launch in government, aero, maritime and telco markets. Szczepanik will play an integral role in managing all aspects of the development and production of Isotropic Systems' game-changing terminals, including patented circuitry at the core of the optical beamforming lens modules that enable the antenna to link with multiple satellites in multiple orbits. Based in the UK, Szczepanik will contribute hands-on engineering experience with extremely complex system architecture and RF platform development, further strengthening Isotropic Systems' fast-growing UK presence and collaborative relationships with a growing number of innovative companies deeply involved in the UK space market.

Aerojet Rocketdyne Names Dan Boehle as CFO

August 7, 2020 - Aerojet Rocketdyne Holdings announced that Dan Boehle has been named as the company's Chief Financial Officer. Boehle will report directly to CEO and President Eileen P. Drake and will be based out of the corporate headquarters in El Segundo, California. Boehle joined Aerojet Rocketdyne in August 2017 as Vice President, Controller and Principal Accounting Officer. Over the last several years, he has led Aerojet Rocketdyne efforts to streamline Aerojet Rocketdyne's finance and accounting practices to increase efficiency and reduce overhead expenditures. Boehle previously worked for more than 15 years at Northrop Grumman Corporation where he served in positions of increasing responsibility, including Director for Aerospace Systems Sector Financial Planning, Reporting and Analysis as well as Corporate Assistant Controller and Director of Internal Audit. Boehle holds a Bachelor of Science in Accounting from Loyola Marymount University, a Master of Business Administration from UCLA's Anderson School of Management and is a Certified Public Accountant.

Intelsat Announces New Vice President of Global Government Affairs and Policy Peter B. Davidson

August 4, 2020 - Intelsat announced that Peter B. Davidson has joined the company as Vice President of Global Government Affairs and Policy. Based in the company's McLean, Va. office, Davidson is responsible for leading the development of Intelsat's government relations strategy globally, building relationships with individuals in the U.S. Congress and Administration, as well as international administrations and regulatory bodies that impact Intelsat's business around the world. He will report to Intelsat's Executive Vice President, General Counsel and Chief Administrative Officer Michelle Bryan. Davidson brings more than 35 years of experience in government affairs, telecom and legal knowledge to his new role at Intelsat. Most recently, Davidson served as Deputy Dean for Strategic Initiatives and Assistant Professor of Law, at the Antonin Scalia Law School at George Mason University. Before that, he served as General Counsel at the Department of Commerce, acting as the third most senior official and overseeing nearly 400 attorneys across all 13 of the Department's bureaus.

REPORTS

New WTA Report, "The Cybersecurity Buzzwords Every Manager Needs to Know," Provides Guidance into Key Cybersecurity Terms

August 25, 2020 - The World Teleport Association (WTA) today released The Cybersecurity Buzzwords Every Manager Needs to Know, a new research report that serves as a guide to terms that managers are most likely to encounter when grappling with cyberthreats and the practices and technologies that protect

against them. Like every technology field, cybersecurity is filled with buzzwords. They have vital meaning to practitioners – but they can also be a barrier to understanding for managers who have to make decisions about cybersecurity based on their knowledge of finance, sales or satellite communications. Drawing on the expertise of cybersecurity professionals and educators, WTA offers this guide to terms you are most likely to encounter when grappling with cyberthreats and the practices and technologies that protect against them. The terms addressed in this guide include Code Injection, Distributed Denial of Service, Domain Name Server, Keylogging, Multi-factor Authentication, Packet Sniffing, Penetration Testing, Secure Socket Layer, Spoofing, Trojan, Virus, Virtual Private Networks and Worm.

UPCOMING EVENTS

APSCC 2020 Conference Series, August 18 – November 17, <https://apccsat.com>
LIVE Every Tuesday 9AM HK I Singapore Time from August 18 to November 17

APSAT 2020, September 23-24, Jakarta, Indonesia, <https://apsat.assi.or.id/>

Satellite Industry Forum, September 24-25, Virtual Edition, <https://www.aviasif.com/>

ConnecTechAsia 2020, September 29 - October 1, Virtual Edition, www.connectechasia.com

APSCC Summit @ConnecTech Asia, September 29 - October 1, Virtual Edition,
<https://www.connectechasia.com/satellite-asia/>

Future of Video India, October 10, Virtual Edition, https://avia.org/all_events/the-future-of-video-india-2020/

IAC 2020, October 12-14, Virtual Edition, <http://www.iafastro.org/events/iac/iac-2020/>

CABSAT 2020, October 26 - 28, Dubai, UAE, www.cabsat.com

CABSAT now in its 26th edition presents SATEXPO, the only platform in the MEASA region bringing senior buyers in sat-comms, tech and business solutions together for 3 days under one roof. SATEXPO represents the entire ecosystem of satellite carriers, manufacturers, service providers and integrators serving government and military.

Asia Video Summit 2020, November 9-11, Singapore, <https://asiavideosummit.com/>

World Satellite Business Week, November 9-12, Paris, France, <http://www.satellite-business.com/en>

Editorials and Inquiries

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

Inho Seo, Editor, APSCC Publications

Asia-Pacific Satellite Communications Council (APSCC)

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

Gyeonggi-do, SEOUL 13590, Rep. of KOREA

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

E-mail: editor@apcc.or.kr Website: www.apcc.or.kr

About APSCC

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