

APSCC Monthly e-Newsletter

March 2022

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

News in this issue has been collected from February 1 to February 28.

INSIDE APSCC

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

The most frequent and largest ongoing virtual conference in the Asia Pacific satellite community – the APSCC 2022 Webinar Series incorporates industry veterans, local players, as well as new market entrants in a single event to reach a wide-ranging audience. The APSCC 2022 Webinar Series continues to play a vital role in supporting the industry in the Asia Pacific region and beyond with a brand-new format, a lengthened timeline, and a potentially unlimited reach. Register now and get access to the complete APSCC 2022 Webinar Series with a single password. To register go to <https://apscsat.com>.

SatADSL Joins APSCC

February 10, 2022 – SatADSL is the world's first managed satellite service aggregator and a zero CAPEX OSS/BSS. It is an innovative & revolutionary platform that helps every player in the satellite services value chain (teleport/hub operator, ISP and reseller) to generate new revenue without upfront costs and to monetise their investment faster. SatADSL's neXat platform is empowering operators to enter new markets throughout the Asia Pacific region.

SATELLITE BUSINESS

Thuraya Launches its Innovative Push-to-Talk Communications Solution with Cobham SATCOM

February 28, 2022 – Thuraya Telecommunications Company has launched a new IP-based radio communications solution Thuraya Push-to-Talk (PTT) developed with Cobham SATCOM. The solution will enable users across a wide spectrum of industries to extend the range of their voice communications beyond line of sight (BLOS) wherever their assets and teams are located. Thuraya PTT is an IP-based radio communications solution that works in conjunction with any Thuraya Broadband terminal to establish a private network. It gives users the ability to combine and integrate different technologies such as 3G/LTE/LMR (Land Mobile Radio) via Thuraya's advanced satellite system for seamless voice and data communications.

Telesat and Liquid Intelligent Technologies Ink Strategic Cooperation Agreement for Telesat Lightspeed Services in Africa

February 28, 2022 – Telesat and Liquid Intelligent Technologies announced a strategic cooperation agreement to explore reciprocal go-to-market strategies to bring Telesat Lightspeed Low Earth Orbit (LEO) satellite services to Africa. As part of the agreement, the companies will closely collaborate on the commercial and technical aspects of integrating the Telesat Lightspeed enterprise-grade, high-throughput, low-latency satellite network with Liquid's global value-added services network. This integration can enable the expansion of Liquid's enterprise portfolio offerings, including next-generation cloud services, managed security services, business Wi-Fi and data center connectivity. At

the same time, Telesat will explore combining Liquid's landing stations, Points of Presences (PoPs), site hosting, management services, and fibre network as part of its global terrestrial infrastructure that seamlessly integrates with the Telesat Lightspeed satellite network. The agreement opens the door for a collaborative approach to LEO terrestrial development. Moving forward, Telesat and Liquid Intelligent Technologies will work together to determine how each company's industry-leading technologies can integrate with the other to better serve the African continent.

Intelsat Collaborates with Microsoft to Demonstrate Private Cellular Network Using Intelsat's Global Satellite and Ground Network

February 27, 2022 – Intelsat announced the successful demonstration of a first of its kind private cellular network with Microsoft Azure Private Multi-Access Edge Compute and FlexEnterprise, Intelsat's satellite-based global connectivity service. Held at Intelsat's office in McLean, VA, the demonstration successfully establishes reference architecture for deploying secure, high-performance private LTE and 5G networks and other cloud services over satellite networks to enterprise locations virtually anywhere globally, including those in remote and austere environments. The demonstration creates a private LTE service using Azure Private 5G Core deployed on an Azure Stack Edge device. Connectivity to the internet and Azure services is enabled by Intelsat's FlexEnterprise. Via the private cellular network, users can access local enterprise resources via SIM-authenticated connections to the Azure Stack Edge and access remote resources through the FlexEnterprise connection, the IntelsatOne global network and Azure. Additionally, the LTE network powers a Wi-Fi access point and IoT applications.

Eclipse Global Connectivity Signs Distribution Partner Agreement with OneWeb

February 24, 2022 – Eclipse Global Connectivity ("Eclipse") is now an authorized OneWeb Distribution Partner (DP), following a signed agreement late last year. Through the partnership, Eclipse will offer new, low latency, fibre-like airtime services, hardware systems and certifications to government aircraft across Europe, the Middle East and Asia (EMEA) to facilitate a broad range of operational and mission goals. The five-year agreement is an outstanding opportunity for the two companies to collaborate on comprehensive solutions. Beyond their Distribution Partner role, Eclipse brings expertise in aero launch readiness and Eclipse Technics, the company's Design and Production (DOA / POA) division offers hardware-solution integration, Supplemental Type Certificates (STC) and installation kits which may support OneWeb's selected hardware. Network latency has historically affected other high-bandwidth geosynchronous (GEO) satellite networks.

Lynk Global Signs Contracts with MNOs to Bring Satellite-Direct-to-Phone Connectivity to Seven Pacific and Caribbean Island Nations

February 23, 2022 – Lynk Global, Inc. has signed multiple commercial contracts with Mobile Network Operators (MNOs) covering seven island nations in the Pacific and Caribbean, including with Telikom PNG in Papua New Guinea's (PNG) and bmobile in the Solomon Islands. Lynk has seen a clear acceleration of contract signings with island nations in response to the recent disaster in Tonga. Lynk's satellites offer a constellation of cell towers in space that will enable PNG and Solomon islands' subscribers to stay connected across their nations' vast terrain simply using their standard unmodified mobile phones. PNG has a land mass spanning more than 460,000 kilometers and a population of nine million residents of which more than 80% are considered rural and have limited or no mobile phone connectivity with the current terrestrial cell tower infrastructure. The Solomon Islands are spread over 1.6 million kilometers and is the 22nd largest maritime exclusive economic zone in the world. Over 75% of residents of the Solomon Islands live outside urban areas, with 60% living in localities with fewer than 200 people.

Intelsat Announces Successful Emergence from Financial Restructuring Process

February 23, 2022 – Intelsat S.A. has successfully completed and emerged from its financial restructuring process as a private company with a substantially strengthened capital structure to

support its growth as the leader in satellite communications. This final milestone follows receipt of regulatory approvals, completion of certain corporate actions, and satisfaction of other customary conditions. Intelsat's now effective Plan of Reorganization, supported by all creditor groups and confirmed by the Bankruptcy Court on December 16, 2021, has reduced the Company's debt by more than half, from approximately \$16 billion to \$7 billion. In connection with emergence, Intelsat obtained \$6.7 billion in new financing consisting of a revolving credit facility, term loan, and secured notes. Supported by new equity owners, the Company is now best positioned for long-term success as it continues to innovate and bring new services to market. Intelsat also has a new Board of Directors, composed of the Company's Chief Executive Officer and six new directors, including Lisa Hammitt, Intelsat's Chairperson.

Aurora Insight Announces Strategic Investment from MAXAR

February 23, 2022 - Aurora Insight, a business analytics company that provides radio frequency (RF) data and advanced analytics about wireless activity, today announced a strategic investment from Maxar Technologies, a leading provider of comprehensive space solutions and secure, precise, geospatial intelligence. Aurora Insight directly measures the global RF environment with terrestrial and satellite-based sensors to provide government and commercial customers with comprehensive data on spectrum and wireless network infrastructure. The strategic investment from Maxar will help Aurora Insight accelerate its satellite technology development. Access to spectrum has become a top concern for organizations around the world, and Maxar's strategic investment will further enhance Aurora Insight's ability to measure the global RF environment and provide detailed information and insights on spectral activity.

Marlink to Deliver Smart Hybrid Network for Offshore Fleet

February 22, 2022 – Marlink, the leading provider of smart network solutions, has signed an agreement to provide a global hybrid network solution to vessels operated by Subsea 7, a global leader in the delivery of offshore projects and services for the evolving energy industry. Subsea 7 operates one of the most capable and diverse fleets in its market, including chartered and high specification owned vessels. Marlink will provide a secure hybrid network solution to Subsea 7, combining its global Sealink VSAT solution with L-band back-up, global 4G cellular services and connection to the Tampnet network for operations in the North Sea and Gulf of Mexico. The contract includes provision of guaranteed throughput including a Committed Information Rate (CIR) at a level normally only found in the leisure/cruise sector. Marlink will also provide its XChange platform solution to create a separate network for secure crew communications.

INTEGRASYS Joins the Digital IF Interoperability Consortium (DIFI)

February 21, 2022 – INTEGRASYS has joined the DIFI Consortium, an independent space industry group, formed to advance interoperability in satellite and ground system networks. INTEGRASYS joins a growing roster of leading organizations in the space industry coming together to form the Digital IF Interoperability Consortium. These organizations are contributing to the innovation of digital transformation of space, satellite, and related space technologies for the benefit of the industry. INTEGRASYS is a software company since 1990, a pioneer in smart solutions for the Ground Segment within the Satellite industry for solving industry challenges with smart solutions. Joining DIFI is a potential opportunity for Integrasys to enhance our product line with further capabilities that today is fully virtualized. Product line focuses on network design, deployment, maintenance, monitoring, enhancement, and management of spectrum, solving any possible interferences for Government and Commercial markets. The company sees great value in being part of this Consortium for bringing digital IF/RF to life and solving current industry and customer challenges in a seamless and automated manner.

Inmarsat and Hughes Support ITU Disaster Relief Efforts with \$1.3 Million Donation

February 17, 2022 – Inmarsat and Hughes Network Systems, LLC have donated mobile satellite

communications technology and services to the International Telecommunication Union (ITU) for use in developing nations facing natural and man-made disasters. The donation includes 30 Broadband Global Area Network (BGAN) terminals, manufactured by Hughes, and \$1.2 million worth of satellite airtime from Inmarsat, leveraging the ELERA network. Hughes and Inmarsat will also provide technical training to ITU personnel so they can deliver a turn-key communications solution for humanitarian aid workers responding to emergencies anywhere in the world. Within the first hours of a disaster or conflict, the ITU will lend the mobile satellite terminals to relief teams that can use the rugged, portable devices and Inmarsat satellite capacity to set up voice and data connectivity where it's needed most for rescue and relief efforts. With access to global satellite capacity and 30 terminals, the ITU will be able to deploy satellite connectivity to support multiple communities in need at any one time.

Intelsat FlexExec and Satcom Direct's Plane Simple™ Antenna System for Inflight Broadband Connectivity Confirmed D160 Certified

February 17, 2022 – Intelsat announced Satcom Direct's (SD) Plane Simple advanced tail mount terminal for Intelsat's inflight internet solution FlexExec has confirmed its D160 approval. The achievement of the industry standard was announced at SD's annual Connecting with Customers (CwC) 2022 event taking place in Orlando this week. The SD Plane Simple terminal, which has undergone over 250 trial flight hours, received DO-160 certification this week. This means the Federal Aviation Administration (FAA) conducted extensive environmental testing, including heat, weight, weather, and vibration testing, officially confirming the terminal is approved for commercial use. The first in a series of Supplemental Type Certificates, (STC) is anticipated to be confirmed in March, with STCs for all major OEMs expected by the end of April. Intelsat's global, multi-layered, high-throughput satellite (HTS) network, combined with the advanced SD Plane Simple antenna system, meets the increased demand for secure, always-available inflight connectivity – ideal for VPN, video conferencing, streaming and uninterrupted access to cloud-based applications, enabling productivity at all altitudes. It also offers dedicated network capacity for data-hungry tasks, such as streaming and sharing large files.

Orange, Sonatel and SES to Deploy First African O3b mPOWER Gateway in Senegal

February 16, 2022 – Orange, one of the world's leading multi-service telecommunications groups with a presence in 18 African countries, along with its subsidiary Sonatel, the leader in Senegalese telecommunications solutions, will partner with SES, the leader in global content connectivity solutions, to deploy and manage the first O3b mPOWER gateway in Africa, allowing the African continent to enjoy easy access to high-performance and low-latency connectivity services. The three companies announced that the gateway for O3b mPOWER, SES's next-generation medium earth orbit (MEO) communications system, will be located at the Sonatel teleport in the Senegalese territory of Gandoul among other local satellites antennas. This very first O3b mPOWER gateway will be used by Sonatel and Orange to deliver high-performance, low-latency, and cloud-optimised connectivity services throughout Africa. SES will also use the gateway to support telemetry, tracking and command (TT&C) functions for the O3b mPOWER fleet from an additional location and the first one in Africa.

Hughes Introduces First-of-its-Kind Community LTE Service

February 15, 2022 – Hughes Network Systems, LLC announced the successful three-month pilot of a new Community LTE service at five villages in Brazil. Designed to serve people who live outside the reach of cable, fiber and cellular networks, Community LTE creates a mobile hotspot across several kilometers that connects to the internet by satellite. Anyone can access the broadband service with an LTE-enabled device simply by purchasing data at the local retailer who hosts the hotspot. Since launching the pilot program, hundreds of people have used the LTE service. At each site, Hughes integrates its JUPITER™ high-throughput satellite capacity and equipment with an LTE small cell and an opensource network core – effectively creating a private LTE network. With this edge

configuration, subscriber traffic gets processed locally, rather than traversing the satellite backlink to the central network core – saving bandwidth and money for the operator when compared to traditional backhaul.

Kacific and Farmer Charlie Team up to Grow Agricultural Output and Support Sustainable Development across Pacific

February 15, 2022 – Kacific Broadband Satellites and Farmer Charlie will bring affordable satellite-powered agricultural information and expertise to farmers in remote and isolated places across South East Asia and the Pacific. The companies have signed an MoU supporting sustainable development and agriculture in small holdings across the region. Kacific and Farmer Charlie will work together to deliver agricultural advice, localized weather information, and agribusiness information – including data from in-field sensors – to smallholder farmers and agribusinesses, helping them improve land management and food production using smart digital tools. It will also help them reduce post-harvest loss, better manage the risk of drought, floods, and other extreme weather events and address the impacts of climate change. The companies share a common vision of helping farming and rural communities achieve meaningful economic, social, and environmental outcomes and impacts in support of the UN’s Sustainable Development Goals (SDGs).

Inmarsat and Satcom Direct’s Advanced New Terminal for Jet ConneX Inflight Broadband Enters Development Phase

February 15, 2022 – An advanced new terminal for Inmarsat’s market-leading business aviation inflight broadband solution Jet ConneX, developed by Satcom Direct (SD), has moved a step closer to commercial service after successfully communicating over the air with an Inmarsat satellite. A complete prototype unit of the ground-breaking Plane Simple Ka-band Antenna System is scheduled for completion later this year, followed by design verification, testing, certification and its commercial service introduction in 2023. Designed specifically to meet current and long-term connectivity needs in the business aviation market, the new Plane Simple Ka-band Antenna System optimises inflight Wi-Fi, particularly for super-mid to large-size jets, using Inmarsat’s current and upcoming Ka-band satellites. It offers a unique alternative to existing terminals used on private jets, with key features including a modern lightweight design with only two line-replaceable units and simplified wiring to enable quicker and easier installation and maintenance.

Jio Platforms Ltd and SES Announce Joint Venture to Deliver High-Performance Satellite-Based Broadband Services across India

February 14, 2022 – Jio Platforms Limited and SES announced the formation of a joint venture – Jio Space Technology Limited – to deliver the next generation scalable and affordable broadband services in India leveraging satellite technology. JPL and SES will own 51% and 49% equity stake in the joint venture respectively. The joint venture will use multi-orbit space networks that is a combination of geostationary (GEO) and medium earth orbit (MEO) satellite constellations capable of delivering multi-gigabit links and capacity to enterprises, mobile backhaul and retail customers across the length and breadth of India and neighbouring regions. The joint venture will be the vehicle for providing SES’s satellite data and connectivity services in India, except for certain international aeronautical and maritime customers who may be served by SES. It will have availability of up to 100 Gbps capacity from SES and will leverage Jio’s premiere position and sales reach in India to unlock this market opportunity. As part of investment plan, the joint venture will develop extensive gateway infrastructure in India to provide services within the country.

Eutelsat and Marlink Extend Global Maritime Partnership for GEO Ku-band Satellite Capacity

February 14, 2022 – Eutelsat Communications and Marlink have agreed to extend their Global Maritime Partnership, initially signed in 2019, to support expansion in Africa and the Middle East (Red Sea and the Gulf) and to integrate the Americas and Asia into the portfolio of Eutelsat satellite capacity used by Marlink. Marlink is the leading maritime VSAT operator in the world, with the best-

in-class global maritime VSAT network and unrivaled market access all maritime segments: shipping, offshore, cruise/ferry, yachting and fishing. In partnership with Eutelsat, Marlink will further increase the capacity and coverage of its maritime VSAT network offering customers with truly differentiated, high-quality, reliable and secure connectivity solutions globally. Marlink has made a multi-year commitment for GEO Ku-band capacity representing several hundred incremental Mhz on multiple Eutelsat satellites, covering the Americas, Asia, Africa and Europe to deliver targeted capacity with guaranteed levels of throughput to specific sailing areas. This agreement also highlights the strong market demand for maritime broadband connectivity across all market segments, driven by a rising number of connected vessels and the surge of the unitary vessel bandwidth and data usage.

Anuvu Secures Major Capacity Deal with Telesat

February 14, 2022 – Anuvu and Telesat announced the largest yet in a series of satellite capacity deals, providing Anuvu and its customers with new Ka-band connectivity over the Southeastern US, the Caribbean, the Gulf of Mexico and Central America. Under the agreement, Anuvu, the leading provider of high-speed connectivity and entertainment solutions for demanding worldwide mobility markets, will add approximately ten gigabits of Ka-band capacity, from Telesat starting next month. This adds to Anuvu’s existing global multi-band capacity on 54 satellites from 11 satellite operators around the world. This deal is part of Anuvu’s Bridge to LEO, allowing Anuvu customers to begin using terminals and capacity now, which are forward-compatible with the Telesat Lightspeed LEO network.

Kacific's COVID Response Initiative Recognized as Satellite Project of the Year at Global Carrier Awards

February 14, 2022 – Kacific’s COVID-19 response has been recognized as the Satellite Project of the Year at the Global Carrier Awards 2021, where it was described as the most ingenious and visionary project in the satellite space. When the COVID-19 crisis took the world by surprise, providing medical care and sharing information were crucial to combating its spread and impact. Yet many rural regions throughout the Pacific had little or no connectivity to their main centres. To bridge this gap, Kacific rapidly initiated a large-scale Community WiFi project to provide rural health clinics with high-quality, low-cost satellite broadband using affordable, easy-to-install antennas. The project drew capacity from Kacific’s high throughput satellite, Kacific1, which uses spot beam technology to cover populated areas across 25 nations. In partnership with GuarantCo, Kacific secured a grant from the Private Infrastructure Development Group (PIDG) Technical Assistance to fund the terminals and help support governments and communities in Asia and the Pacific to fight the pandemic.

Intelsat Makes Strategic Selection with a Significant Initial Order of Gilat’s New SkyEdge IV Platform

February 10, 2022 – Intelsat completed a strategic selection process and placed a significant initial order for Gilat’s new SkyEdge IV platform, which will be used for its latest high throughput satellite, Intelsat IS-40e, designed to augment inflight connectivity and mobile backhaul services over North America. SkyEdge IV is Gilat’s next generation platform designed to operate with new, adaptable very high throughput satellites (VHTS) to provide end-users the required capacity where and when needed. SkyEdge IV ensures unified operation with standard interfaces for network orchestration and seamless integration between the space and ground segments. Gilat’s Elastix-TotalNMS will support Intelsat’s current and future satellites to orchestrate network management of a unified network.

Inmarsat and Harvest Technology Group Launch High-Definition Livestreaming Solution for Commercial UAVS

February 10, 2022 - Inmarsat expanded the partner network for its ground-breaking Velaris connectivity solution with the addition of Harvest Technology Group (Harvest), an Australia-based specialist in ultra-low bandwidth livestreaming technology. The combination of Inmarsat’s Velaris

connectivity solution and Harvest's Network Optimised Livestreaming technology will allow commercial operators of Unmanned Aerial Vehicles (UAVs) to securely stream high-definition (HD) video, images, voice and data in real-time to decision makers across the world, while utilising just a fraction of existing bandwidth resources. The ability to stream aerial footage and important sensory data allows UAV operations to be managed remotely, with an 80% reduction in data usage on existing networks. In addition to enhancing critical decision-making, this will also limit the risk of placing personnel in dangerous or costly environments, both in industry settings and in supporting emergency rescue, disaster relief and crisis response efforts. With Harvest's solution, the entire remote inspection or response team, clients and any necessary third-party can securely join live UAV operations.

Intersputnik Becomes a Sponsor for ITU Headquarters Project

February 10, 2022 - The Intersputnik International Organization of Space Communications has decided to become a sponsor of the new International Telecommunication Union (ITU) headquarters project in Geneva, Switzerland. Intersputnik – an international satellite communications services organization and active ITU member – will sponsor a cafeteria in the new ITU building, whose construction is scheduled to start in 2023 and finish in 2026. The 200-seat cafeteria will be named the "Intersputnik Café". The building will face Place des Nations in the heart of Geneva's international district. As conceived by the architects, this new home will enhance ITU's image as a key global institution for peace and cooperation and underscore the organization's commitment to sustainable, inclusive technological development.

Marlink and SES Turbo-Charge Long-term Partnership with O3b mPOWER Commitment

February 9, 2022 – Marlink and SES have signed a multi-year, multi-million-euro deal, which will enable Marlink's customers to access SES's next-generation medium Earth orbit constellation (MEO) – O3b mPOWER, the two long-term partners have announced. Under the agreement, Marlink will offer the high-throughput and low-latency O3b mPOWER dedicated connectivity services to its customers with data-intensive requirements. These include its humanitarian, energy, enterprise, mining, government, maritime and OmniAccess' superyacht customers who require robust communication networks with higher speeds and dedicated lower latency for their business operations in the most remote locations. Marlink and SES have been partners for more than two decades, jointly delivering connectivity solutions to maritime users, humanitarian agencies, energy and mining companies, as well as enterprise, mobility and government customers around the world leveraging SES's widebeam and high-throughput GEO satellites, O3b constellation and teleport infrastructure.

Inmarsat Fleet Xpress Enables Geoquip Marine Vessels to Offer High-Speed Private Networks to Charterers and Crew at Sea

February 9, 2022 – Inmarsat has implemented an agreement with Geoquip Marine allowing the offshore geotechnical solutions provider to offer dedicated Fleet Xpress bandwidth as part of its vessel charter arrangements and separated connectivity for personnel onboard. Four Geoquip integrated geotechnical survey vessels have introduced Fleet Xpress Charterer Network services for sole use by charterers plus connectivity via Fleet Hotspot Wi-Fi services for those working at sea. In a set-up that is unique to Inmarsat, Fleet Xpress allows multiple networks to be connected to the vessel via a single antenna, with activation requiring no new hardware or shipboard installation work. The vessels are currently operating off the US East Coast, off Taiwan, and in Europe.

Astrocast Partners with UnaBiz on End-to-End Satellite IoT Solution

February 9, 2022 – Astrocast, the most advanced global nanosatellite IoT network, has announced a partnership with massive IoT service provider, UnaBiz, to develop an end-to-end IoT solution for asset tracking and monitoring. This collaboration combines Astrocast's connectivity technologies with UnaBiz's custom design expertise in IoT sensors and data platform services. UnaBiz will extend

its UnaInside services to Astrocast's customers, providing them with a quick turnaround platform for their hardware requirements, such as high-quality product design, fast prototyping services and mass production. Astrocast will provide its direct-to-satellite data service offering, as well as hardware and consulting services to UnaBiz. UnaBiz will facilitate the on-boarding of Astrocast-enabled devices on UnaConnect, an ISO27001 certified IoT device management data platform that currently manages close to a million IoT devices.

Eutelsat Supports the World Food Programme in Delivering Vital Relief to Madagascar

February 8, 2022 – In the wake of Cyclone Batsirai which hit Madagascar late on Saturday 5 February, Eutelsat Communications stepped in to provide satellite equipment and in-orbit resources on its EUTELSAT KONNECT satellite to Gulfsat Madagascar in support of the World Food Programme's (WFP) disaster relief coordination efforts. The cyclone brought massive flooding across the country with widespread damage to infrastructure. Under the auspices of the WFP, in-orbit capacity provided by Eutelsat's satellite coupled with Gulfsat Madagascar's ground-breaking telecom expertise was assured vital support to early relief operations by deploying telecommunications resources in zones where terrestrial networks had been damaged, saturated or destroyed by the cyclone.

SES and Gilat Expand Partnership with Selection of Gilat's SkyEdge IV Platform for SES-17

February 8, 2022 – Gilat Satellite Networks Ltd., a worldwide leader in satellite networking technology, solutions, and services, announced today the expansion of their strategic partnership with SES. SES has selected Gilat's SkyEdge IV platform to operate with its SES-17 satellite, a very high throughput satellite (VHTS) to provide fixed services and mobility services. Gilat's SkyEdge IV is a multi-orbit platform that was designed to interface and smoothly integrate with non-geostationary constellations and geostationary VHTS, such as the recently-launched SES-17. SES will be using SkyEdge IV simultaneously for both SES-17 and its upcoming second generation NGSO constellation, O3b mPOWER. The SkyEdge IV multi-service platform will be utilized by SES to deliver cellular-backhaul and enterprise services, in addition to previously announced maritime services. SES-17 is a GEO VHTS designed for high-speed connectivity and flexibility for end-users in the Americas, the Caribbean, and the Atlantic Ocean. SkyEdge IV ensures unified operation with seamless switchover between SES-17 and the O3b mPOWER constellation. Empowering SkyEdge IV is Gilat's Elastix-Total NMS network management system, which was optimized to work in harmony with SES's Adaptive Resource Control (ARC).

Intelsat to Provide In-flight Connectivity Service to LATAM Airlines' new Airbus Fleet

February 7, 2022 – Intelsat announced Intelsat's connectivity service will be installed in its fleet of Airbus narrow body aircraft including A320ceo and A320neo variants, based in Chile, Ecuador, Peru and Colombia. The installations will include up to 160 total aircraft and will take three years to complete. Approximately 70 new-delivery aircraft are expected to be installed with Intelsat's 2Ku system by Airbus, prior to delivery to LATAM, at its manufacturing sites in the U.S. and Europe. When completed the entire fleet of LATAM narrow body aircraft will be served by Intelsat's IFC service. With an initial \$2B investment, Intelsat is building the world's first global unified network to support the next generation of global mobility. This includes a new fleet of software-defined satellites (SDS) to meet airline passenger demand for streaming-quality inflight connectivity. Intelsat brings airlines the scale and flexibility they depend upon to deliver outstanding passenger experiences at any point in their route or network.

Marlink and OneWeb to Bring High-Speed Connectivity to the Maritime, Energy, Enterprise and Humanitarian Sectors

February 7, 2022 – OneWeb and Marlink have joined forces to bring OneWeb's high-speed, low latency connectivity to the maritime, energy, enterprise and humanitarian sectors. Marlink operates a global industry leading VSAT network and has unrivalled market access providing remote communications across the maritime, offshore and onshore energy, enterprise and humanitarian

sectors. In partnership with OneWeb, Marlink will further enhance the capabilities of its hybrid network solutions and offer its customers truly differentiated, flexible, reliable and secure connectivity solutions, optimized for every application. The two companies plan to concentrate on the energy sector in regions above the 50th parallel north from January 2022, expanding to the maritime, energy, enterprise and humanitarian sectors on a global scale from January 2023. Together OneWeb and Marlink will deploy, test and demonstrate several types of user terminals and LEO connectivity services to customers across these market segments.

Cobham SATCOM Joins the Digital IF Interoperability Consortium (DIFI)

February 7, 2022 – Cobham SATCOM and the Digital IF Interoperability Consortium (DIFI) announced Cobham’s membership in the DIFI Consortium. Cobham is a long-standing proponent of standard interfaces, reflected in modular designs and compatibility across a broad range of RF vendors, and has developed a range of digitizers and innovative digital interfaces. DIFI members are coming together to support innovation and the digital transformation of space, satellite and related network technologies through the development of industry interoperability standards. In August, DIFI introduced version 1.0 of its interoperability standard based upon VITA 49, entitled IEEE-ISTO Std 4900-2021: Digital IF Interoperability Standard.

Telstra to Bring Vast Experience to Viasat Upcoming Global Satellite Constellation

February 2, 2022 – In Australia and the Asia-Pacific region, Viasat has entered into a relationship with Telstra to build and manage the ground network for the ViaSat-3 satellite constellation. This is the next big step for Viasat to fulfill its ambition to deliver a broadband network with enough satellite capacity to deliver greater consumer choice with an affordable, high-speed, high-quality internet and video streaming service – anywhere in the world. An ultra-high-capacity terabit satellite constellation, the ViaSat-3 system is a completely new satellite design and platform. It is comprised of three ViaSat-3 class satellites with state-of-the-art ground network infrastructure. The first two satellites will focus on the Americas and Europe, Middle East and Africa (EMEA), respectively, with the third targeting the Asia-Pacific (APAC) region.

Gilat Announces Launch of SkyEdge IV, Next Generation SATCOM Ground System

February 2, 2022 – Gilat Satellite Networks has announced the launch of SkyEdge IV, a next generation satellite communication ground system, aiming to capture a leading position of the multibillion-dollar emerging VHTS market opportunity. SkyEdge IV will increase operational efficiencies due to scalable software centricity and provides VSAT backward compatibility to preserve SkyEdge II-c customer investment. SkyEdge IV was built to lead the revolutionary Elastix-Era of satellite communication, where multi-orbit constellations and very high throughput satellites (VHTS) answer the demand for ubiquitous connectivity for fixed and mobility sites anywhere, answering the promise of the cloud, 5G, and IoT. Gilat’s SkyEdge IV is a multi-orbit, multi-service platform built to work in harmony with software defined satellites and support cloud software defined network (SDN) centric infrastructure.

Sateliot finalizes the Closing of a Capital Increase of €10 Million with Indra and Cellnex

February 2, 2022 – Sateliot, the company that will put into orbit the first commercial constellation of 5G-IoT nanosatellites that will act as a coverage extension for mobile operators, is finalizing the closing of a capital increase divided into two tranches for ten million euros through which Indra and Cellnex are incorporated as new shareholders and industrial partners. Specifically, at the end of December 2021, the first tranche of this series A of Sateliot was closed for €6.5 million, which has facilitated the entry of Indra and Cellnex in the company’s capital as industrial partners. This first tranche will be completed next February to reach ten million euros. The final stake of both companies will be adjusted depending on the closing of the second tranche of the capital increase, although it is estimated to be around 10.5 percent in the case of Indra and approximately 3.5 percent in the case of Cellnex.

The US Patent Office Grants INTEGRASYS LLC New Patent for Satmotion API

February 2, 2022 – The US Patent Office (USPTO) granted a new patent on Satmotion API method, for being the only satellite auto alignment and commissioning method for automated antenna terminals. Satmotion API, is the second patented technology from the INTEGRASYS LLC in USA, being Satmotion Pocket its precedent the first granted patent for the company. The new version of INTEGRASYS Auto commissioning Technology has been considered by the USPTO thanks to the Zero-Touch commissioning method, which is totally aligned with Electronically Steerable Phased Array Antennas (ESPAA) needs, providing a seamless interface and intuitive use for optimizing its performance. Satmotion API aims to enable Satcom services by fully automating the commissioning of services for Electronically Steerable Phased Array Antennas (ESPAA), and all without human intervention, addressing optimal radio frequency (RF) performance, required by the Network Operations Center (NOC), minimizing interferences and power management. It will also enable remote recovery in many cases, removing the need for installers to revisit the site, particularly in isolated areas such as those that are rural, desert or high sea.

Inmarsat Agrees Fleet LTE Contract with Golden Energy Offshore

February 2, 2022 – Inmarsat, the world leader in global, mobile satellite communications, has secured a new contract for its flexible, three-in-one network service Fleet LTE from independent Norwegian owner Golden Energy Offshore. Using Fleet LTE, three modern Global Energy Offshore support vessels can switch between Fleet Xpress (Ka-band), FleetBroadband (L-band), and 4G coverage, depending on the strongest available signal. Band selection will be made automatically, in a seamless process developed to ensure stability. A long-term Inmarsat customer, Golden Energy Offshore has also been a longstanding user of the satellite operator's VSAT services. The switch to Fleet LTE will involve straightforward integrations of 4G connectivity onboard Energy Duchess, Energy Empress, and Energy Swan, with installations scheduled as part of forthcoming port calls.

Astrocast's Cost-effective, Bidirectional Satellite IoT Service Launches Commercially

February 2, 2022 – Astrocast SA has launched its commercially available cost-effective, bidirectional satellite IoT (SatIoT) service, to connect IoT devices globally when outside of cell-based terrestrial networks at a comparable cost. Accessibility to Astrocast's Satellite IoT service has the potential to transform the business model for global IoT, opening the door to a raft of new, powerful applications that will accelerate change and deliver tangible value to business, individuals and the environment. Utilising its own recently launched nanosatellite constellation in Low Earth Orbit (LEO), Astrocast offers affordable connectivity for all and supports applications in asset tracking, telemetry and telematics; as it fosters innovation across sectors including maritime, agriculture & livestock, environment & utilities, land, transport, freight & storage, mining, oil & gas. By default, IoT solutions implemented in many of these situations are deployed in remote locations – from mines to farmland, ships to oil platforms. Astrocast's solution minimises the need for human intervention and repair, wherever possible, safeguarding the business case.

Telesat Selects Cobham SATCOM for Telesat Lightspeed Landing Station Terminals

February 1, 2021 – Telesat and Cobham SATCOM have announced an Agreement to deploy high-performance Cobham SATCOM 3-axis TRACKER 4000 terminals for the Telesat Lightspeed Landing Station network. Under the terms of the agreement, Cobham SATCOM will manufacture, integrate, and install advanced Ka-band tracking antennas at Telesat's sites throughout the world, and provide long-term logistics and maintenance support. The radome-protected antennas will provide accurate tracking in the most adverse weather conditions, ensuring high availability and throughput for carrier-grade performance. Based on Cobham SATCOM's successful TRACKER Gateway series, the Landing Station terminals offer industry-leading performance, high reliability, and low total cost of ownership. Cobham SATCOM will integrate the TRACKER antennas with baseband modems from SatixFy, to enable the Telesat Lightspeed network to provide 15 Tbps of global network capacity. Up

to four TRACKER antennas may be simultaneously pointed at each Telesat Lightspeed satellite, allowing efficient use of satellite capacity and very high customer throughput in both forward and return directions.

Kratos and Kymeta Join Forces to Develop Solutions that Integrate Advanced Antenna Technologies with Software-Defined Ground Systems

February 1, 2022 – Kymeta and Kratos Defense & Security Solutions, Inc. announced a strategic partnership to jointly develop products and solutions that will enable modern, virtualized ground systems to better leverage the capabilities of next generation mobile satellite antennas. Among the broader goals of the partnership are to advance the ability of ground systems to support, leverage, manage, and control electronically-steered and multi-purpose antennas to better support the capabilities of software-defined and multi-beam satellites. This effort will initially focus on joint development of a software-defined remote terminal that will support a variety of dynamic satellite connectivity applications, including support for multi-orbit use cases where connectivity to LEO, MEO, and GEO satellites through the same antenna are desirable.

Intelsat Partners with SKY Perfect JSAT Corporation to Expand High-Throughput Inflight Connectivity Network in Asia

February 1, 2022 – Intelsat has expanded its partnership with SKY Perfect JSAT Corporation to use its next-generation JCSAT-1C high-throughput satellites (HTS) over Japan and Asia, one of the fastest-growing markets for air travel. The partnership benefits both airlines and passengers because it promotes an exceptional passenger experience with faster internet connection speeds onboard flights. Intelsat was recently named Best Inflight Wi-Fi Service by Global Traveler Magazine. With an initial \$2B investment, Intelsat is building the world's first global unified software-defined network to support the next generation of global mobility. This includes a new fleet of software-defined satellites to meet airline passenger demand for streaming-quality inflight connectivity. Intelsat brings airlines the scale and flexibility they depend on to deliver outstanding passenger experiences at any point in their route or network.

BROADCAST

MEASAT's Video Neighbourhood Welcomes Toonz Kids in Partnership with Amagi

February 21, 2022 – MEASAT Satellite Systems Sdn. Bhd. ("MEASAT") announced today an agreement with Amagi, a global leader in cloud-based Software as a Service ("SaaS") technology for broadcast and connected TV, for the distribution of Toonz Kids via MEASAT-3a satellite. The channel joins MEASAT's video neighbourhood at 91.5°E. Toonz Kids launched by Toonz Media Group is a new children's television channel in Indonesia. The 24x7 bilingual channel will include shows in both Bahasa and English and is targeted at children between 4 - 12 years old. The 91.5°E prime video hot slot is home to the MEASAT-3a and MEASAT-3b satellites, forming the region's strongest video neighbourhood. From 91.5°E, MEASAT supports broadcasters and DTH operators to distribute UHD, HD and SD channels to audiences across Asia, Australia, East Africa and Eastern Europe. The MEASAT fleet will be further strengthened with the addition of MEASAT-3d in 2022.

Discovery Deutschland Extends HD Capacity Agreement with SES for TELE 5 HD

February 21, 2022 – The Discovery Deutschland GmbH & Co. KG (Discovery Deutschland) has extended its existing partnership with SES, securing long-term satellite capacity for the distribution of its movie channel TELE 5 HD on the SES's prime TV neighbourhood at ASTRA 19.2 degrees East. The channel continues to be available free-to-air in standard definition (SD) and in high definition (HD) on HD+, SES's German media platform. As part of the HD+ channel bouquet, TELE 5 HD presents a wide range of fiction and sci-fi programmes to its viewers in high definition. The TV station airs films from around the world, cult classics and comedic in-house productions.

Cellcom and NOVELSAT Plan to Partner on a 5G Video Pilot

February 21, 2022 – Cellcom and NOVELSAT aim to collaborate on a pilot of real-time video content distribution on 5G network infrastructure. As part of the pilot, Cellcom will implement a full 5G network for delivering video content to multiple user devices. Video content of CellcomTV service will be distributed in real time to 5G base stations by NOVELSAT’s solution. At the cell site, NOVELSAT’s solution will perform video processing using edge-computing capabilities and will stream the video content at the highest quality and with the lowest latency to a wide range of user devices. The pilot will demonstrate the benefits of edge-based video delivery in terms of both video traffic efficiency and end-user experience quality (QoE).

ODE-C Enclosure Keeps Hong Kong TV’s Links Cool

February 21, 2022 – Datacom System International Ltd, a major supplier of satellite communications equipment and system integrator in various countries, has chosen ViaLite Communications’ recently upgraded ODE-C outdoor enclosure to house a variety of RF over fiber link connections for Hong Kong TV; a pay-TV service provider based in Hong Kong. Datacom needed to support a large number of RF over fiber links, as well as a variety of types, in a single outdoor, temperature-controlled cabinet. They chose the ODE-C enclosure, which is primarily designed to house ViaLite’s 3U rack chassis with associated RF over fiber/support cards, but can also be used to store other customer Satcom, Broadcast or GPS/GNSS equipment. The enclosure’s robust, IP55-rated design protects electrical equipment from the elements when housed outdoors. Up to four 3U 19” rack chassis units and up to 104 RF over fiber channels can be supported in a single enclosure. Alternatively, extra rack space in the enclosure can be used for other equipment. A more unique feature, is that the ODE-C enables access to the front and rear of the equipment, even when the enclosure is wall mounted.

Sydney Teleport Added to Livelink Service Network

February 16, 2022 – Cerberus Tech Ltd has announced the inclusion of Sydney Teleport Services Pty Ltd (STS) into its growing, content delivery network of teleport providers. Cerberus Tech’s Livelink Service Network provides IP delivery as a managed service and builds increased connectivity in regions which can be challenging or expensive to reach with traditional broadcasting methods. STS hosts broadcast-grade encoding and decoding hardware, to send and receive Zixi, SRT and RIST feeds, using Livelink’s fully managed end-to-end service. Cerberus Tech’s Livelink platform helps broadcasters expand content reach by reducing the cost of contribution and distribution. Livelink moves broadcast-grade feeds via IP, from any location to any destination, at a fraction of the cost of traditional methods. Customers can transport live linear and OTT content from point-to-point or point to multipoint, with the option of self-serve or fully-managed content services. Livelink combines a protocol-agnostic, multi-cloud compatible infrastructure with low-latency reach, and is facilitated by a global network of technical partners.

Intelsat Offers More to Watch in Central and Eastern Europe

February 15, 2022 – Intelsat has signed a contract with Hungaro DigiTel, one of Europe’s leading satellite telecommunications providers, to assist the company in its expansion of digital television distribution services for TV2 Hungary. Hungaro DigiTel will distribute 14 additional TV channels in Hungary and the neighboring countries. They will leverage Intelsat’s reliable and expansive 1West satellite neighborhood over Hungary and Central Europe to provide access to millions of viewers. TV2 has Hungary’s largest television portfolio. Intelsat already carries about 200 Hungarian channels to around 1.8 million viewers in the country on 1West. The 1West neighborhood is a multi-satellite solution distributing SD and HD content to cable operators, direct-to-homes, IPTV head ends and affiliates. The top five direct-to-home (DTH) platforms in the region are located on 1West as well as leading international programmers. Additionally, a 4K platform is now available on the neighborhood increasing the quality of content available to 18 million households in Central and Eastern Europe. Additional success stories at 1West include ViacomCBS Networks International and Slovak Telekom providing Central Eastern Europe with the best DTH services with the greatest quality and quantity of

channels. Both customers reap the benefits of this popular satellite neighborhood.

Eclat Media Group Selects Tata Communications to Broadcast the Sport in Asia

February 8, 2022 – Tata Communications and Eclat Media Group announced the expansion of Eclat's sports content broadcast to viewers in Asian countries such as Indonesia, Malaysia, Philippines, Singapore and Thailand. This new agreement allows Eclat Media Group's new channels, SPOTV and SPOTV2, to broadcast more than 4,000 hours of content per year. Tata Communications Media Ecosystem, together with video Connect and Satellite Uplink services, will allow SPOTV and SPOTV2 commenters to overlay comments in their local language, which will be added to the video streams of viewers in the relevant regions. Fans across Asia will now be able to watch their favorite global sports with commentary in their preferred language, expanding the reach of content to millions of potential new viewers.

TiVi5MONDE Launches Exclusively on ARABSAT across MENA Region via Longstanding Globecast Partnership

February 9, 2022 - Globecast and Arabsat have announced that TiVi5MONDE has exclusively chosen the longstanding partnership to launch the channel in SD and HD across the MENA region. The free-to-air DTH channel launched 28th Jan 2022. TiVi5MONDE, owned by French network TV5MONDE, is a 24/7 French language children's network, featuring cartoons, educational shows, and teen series. It's aimed at children and tweens aged four to fourteen, whether they are native French speakers or learning the language. The channel is launching on the Badr satellite at 26°E, which already hosts a strong DTH neighbourhood. Arabsat already provides satellite distribution services over MENA for TV5MONDE Maghreb Orient HD and TV5MONDE Style HD, which are on the same transponder as the new service. For TiVi5MONDE, Globecast is supplying the channel, with full redundancy and channel monitoring, to Arabsat's European teleport from where the channel is uplinked.

LAUNCH / SPACE

Rocket Lab Successfully Launches Second Mission for Synspecive, Deploys 110th Satellite to Orbit

February 28, 2022 – Rocket Lab USA, Inc. has successfully deployed a second Synthetic Aperture Radar (SAR) satellite to orbit for data and solutions provider Synspecive, bringing the total number of satellites deployed by Rocket Lab to 110. "The Owl's Night Continues" mission is Rocket Lab's 24th Electron launch. "The Owl's Night Continues" follows on from Rocket Lab's first launch for Synspecive in December 2020, called "The Owl's Night Begins." Today's mission was the first mission as part of a three-launch contract signed with Synspecive in late 2021. Rocket Lab is scheduled to launch another Synspecive mission in 2022 and the third in 2023. The mission was the first to employ the new Pad B launch pad at Launch Complex 1, which is the company's third pad globally. By operating two pads at Launch Complex 1, Rocket Lab can eliminate pad recycle time between missions to support more frequent and responsive launch capabilities.

Globalstar Signs Contract with MDA for New Satellites

February 24, 2022 – Globalstar, Inc. announced that the Company has entered into a satellite procurement agreement with Macdonald, Dettwiler and Associates Corporation (MDA) pursuant to which Globalstar will acquire 17 new satellites that will replenish and extend the life of Globalstar's existing constellation. Globalstar is acquiring the satellites to provide continuous satellite services to the potential customer under the Terms Agreement described in the Company's Annual Reports, as well as services to Globalstar's current and future customers. Rocket Lab USA, Inc. is the principal satellite bus subcontractor under the Procurement Agreement. In addition, if it elects to obtain services from Globalstar under the Terms Agreement, the potential customer is obligated to make service payments and cost reimbursements to Globalstar in amounts that would be material to the Company. The total contract price for the initial 17 satellites is \$327.0 million. Globalstar maintains the option to acquire up to nine additional satellites with flexibility in timing to place such order in

addition to other optional services under the contract.

Rocket Lab Selected by MDA to Design and Build Spacecraft for Globalstar

February 24, 2022 – Rocket Lab USA, Inc. has been awarded a subcontract by MDA Ltd, a leading provider of advanced technology and services to the rapidly expanding global space industry, to lead the design and manufacture of 17 spacecraft buses for Globalstar’s new Low Earth Orbit satellites. Globalstar, Inc.) is a leading provider of Mobile Satellite Services including customizable satellite IoT solutions for individuals and businesses globally. Rocket Lab will lead the development of the spacecraft buses, while MDA will act as prime contractor to manufacture Globalstar’s satellites, lead the development of the payload, and perform the final satellite assembly, integration, and test. The partnership between Rocket Lab and MDA brings together two of the space industry’s most innovative satellite companies. The total initial contract value for Rocket Lab is US\$143 million, with options to provide the satellite operations control center, launch dispensers, launch integration, and up to nine additional spacecraft with flexibility in timing to order such spacecraft. The satellites will integrate with and replenish Globalstar’s current constellation, ensuring service continuity. Globalstar expects to launch the satellites by the end of 2025.

Rocket Lab Officially Opens Third Launch Pad, First Mission Scheduled to Launch within a Week

February 23, 2022 – Rocket Lab USA, Inc announced the completion of its second orbital launch pad at Launch Complex 1 in New Zealand – the Company’s third dedicated pad for its Electron rocket - and confirmed the new pad’s first mission will be a dedicated commercial launch scheduled to lift-off within a week’s time. Pad B is based within Rocket Lab Launch Complex 1, the world’s first private orbital launch site, located in Mahia, New Zealand. The new pad is Rocket Lab’s third for the Company’s Electron launch vehicle and joins the existing Pad A at Launch Complex 1 and a third launch pad at Rocket Lab Launch Complex 2 in Virginia, USA. With two operational pads within the same launch complex, Rocket Lab doubles the launch capacity of its Electron launch vehicle. Launch Complex 1 Pad B will support the upcoming launch of a dedicated Electron mission for Japanese Earth-imaging company Synspecive..

Space Flight Laboratory (SFL) Wins NASA Rapid Spacecraft Acquisition Contract for Small Satellites

February 23, 2022 – Space Flight Laboratory (SFL) has been awarded a contract under the NASA Rapid Spacecraft Acquisition IV (Rapid IV) contracting vehicle to provide small satellites to NASA centers and other U.S. government agencies. The indefinite-delivery, indefinite-quantity contract includes SFL’s space-proven DEFIANT and DAUNTLESS satellite platforms. SFL is one of three satellite developers to win 2022 Rapid IV on-ramp contracts, which are effective February 15, 2022, through August 31, 2025. Managed by the Rapid Spacecraft Development Office (RSDO) at NASA Goddard Space Center, the Rapid IV program gives the U.S. government a fast and flexible means to procure spacecraft tailored to meet specific missions under firm-fixed price delivery orders.

Plan-S announces Launch with SpaceX Falcon 9 via Exolaunch for Three IoT Tech Demo Satellites

February 23, 2022 – Plan-S Satellite and Space Technologies, a Turkish provider of end-to-end satellite solutions for global IoT services, have signed a series of agreements to launch three IoT tech demo satellites onboard SpaceX’s Falcon 9 via Exolaunch, a global leader in launch, in-space logistics and deployment services for small satellites. The satellites being built by Plan-S will be launched in the second half of 2022 as part of SpaceX’s SmallSat Rideshare Programme. Plan-S was established mid-2021 as one of the largest private Turkish satellite companies with its own production and test facilities. They have gone on to become an IoT service provider in Turkey and later covering Central Asia, Africa and the Middle East. Thanks to the engineering team’s substantial expertise, Plan-S will complete a full cycle in less than a year. From developing to manufacturing and launching three satellites to serve a number of sectors including transport, finance, energy, meteorology, aviation, and agriculture, with plans to deploy a large IoT constellation starting in 2023.

Thales Alenia Space Wins Study Contract to Develop Payload to Extract Oxygen on the Moon

February 23, 2022 – Thales Alenia Space has signed a study contract with the European Space Agency worth one million euros for a payload concept to extract oxygen from Moon rock. For a sustainable habitation on the Moon, humans will need to utilise resources that they find on the Moon rather than transport these resources from Earth; one of these resources is oxygen. Thales Alenia Space teams in the UK have worked with AVS, Metalysis, Open University and Redwire Space Europe to specify a demonstration payload for a European Space Agency Lunar Mission that uses molten salt and electrolysis to extract oxygen from Moon rock ‘regolith’. The winning proposal from an ESA competition between multiple industrial consortia, this payload concept will demonstrate that In Situ Resource Utilisation (ISRU) can be performed on the Moon efficiently and to produce oxygen in the quantities required by future Moon colonies.

Satellite Vu Signs Launch Deal with SpaceX

February 21, 2022 – Satellite Vu have signed a launch deal with SpaceX to launch the world’s highest resolution thermal imaging satellite in early 2023. Satellite Vu will be part of a rideshare launch on one of SpaceX’s Transporter missions aboard Falcon 9, which have proven to be the most reliable rockets to launch satellites into orbit in recent years. The mission will launch the first of Satellite Vu’s seven UK built satellites into a low earth orbit. The satellites can collect thermal data, both day and night, of the built and natural environment at any location on the planet. The full constellation will have the ability to measure the heat signature of any building multiple times a day, enabling Satellite Vu to provide near real time insights about building heat loss, giving an accurate image of where to implement energy optimisation investments, offering substantial cost saving benefits to both public and private sector. Surrey Satellite Technology Limited (SSTL) is building the satellites which have been designed with a 3.5m resolution mid-wave infrared imager with video capability and a sensitivity of less than 2 degrees Celsius.

Northrop Grumman Set to Launch Cargo Resupply Mission and Perform Reboost Service for ISS

February 18, 2022 – Northrop Grumman Corporation is set to launch the company’s 17th resupply mission (NG-17) to the International Space Station under NASA’s Commercial Resupply Service-2 (CRS-2) contract. In addition to delivering 8,300 pounds of critical cargo to astronauts living aboard the station, the company’s Cygnus spacecraft will perform its first operational International Space Station reboost service. Antares is scheduled to launch Saturday, Feb. 19 at 12:40 pm EST from the Mid-Atlantic Regional Spaceport Pad 0A at NASA’s Wallops Flight Facility on Wallops Island, Virginia. Cygnus will rendezvous with the station on Feb. 21, where it will remain attached to the station for three months while performing the reboost. Live coverage of both the Antares launch and Cygnus berthing with the station will be available on NASA TV.

AEB and Amazon Web Service (AWS) Sign Strategic Declaration of Intent

February 17, 2022 – The Brazilian Space Agency (AEB) and Amazon Web Services (AWS) have signed a Strategic Intent and Cooperation Agreement. The initiative, with which the Brazilian Embassy in Washington also collaborated, is the first of its kind for AWS in Latin America, and will support the innovation and continued growth of the country's space industry. AEB plays an important role in the Context of Latin America, being responsible for a wide variety of space activities related to space transport, satellites, research and applications. AEB has supported the strengthening of The Brazilian rocket launch infrastructure, production and exploration of space systems. It also offers support for educational and research activities in astronautic and related sciences. In addition, AEB is NASA's bilateral partner in ionospheric research and a signatory to the Artemis Agreements for the joint exploration of the Moon. Cooperation between AEB and AWS describes three specific areas of collaboration designed to support the Agency's long-term economic and technological development goals. These educational, economic and political initiatives will benefit the Brazilian government, Brazilian commercial space organizations and space-focused startups.

UNSW Sydney Buys Nanosatellite Bus from NanoAvionics for its Satellite Innovation Laboratory

February 17, 2022 – The University of New South Wales (UNSW) in Sydney, Australia, has contracted mission integrator NanoAvionics to build a nanosatellite bus for UNSW's satellite innovation laboratory. As part of the collaboration, NanoAvionics will deliver a 6U nanosatellite bus fully assembled and tested on a functional level, ready for its research and educational purposes. Payload integration for laboratory testing, modifications, and mission operations validation will be carried out by UNSW Sydney. The intended GNSS (global navigational satellite systems) payload named "Harry v2" will consist of two "KEA" GPS receivers, developed by the Australian Centre for Space Engineering Research at UNSW, to perform remote Earth sensing operations using GPS reflectometry. Able to host multiple experiments, it will take measurements from reflections coming from the Earth while using navigation signals from other GPS satellites. The receivers, designed for both aircraft and CubeSat operations, are capable of recording intermediate frequency (IF) data and delay Doppler maps (DDM) with its associated metadata. The experiment data can be used to infer sea-state, wind speed, water-land boundaries and many other unexplored applications.

Terran Orbital to Build Microsatellite Program with Lockheed Martin

February 17, 2022 – Small-satellite pioneer Terran Orbital Corporation (Terran Orbital) was awarded a contract by Lockheed Martin Aeronautics to provide three microsatellite class satellites, launch procurement, integration, and operations in support of product demonstration. Terran Orbital has previously announced that it entered in a business combination agreement with Tailwind Two Acquisition Corp., a special purpose acquisition company (SPAC), pursuant to which Terran Orbital will combine with Tailwind Two.

PSLV-C52/EOS-04 Mission: Successful Launch of EOS

February 15, 2022 – PSLV-C52 India's Polar Satellite Launch Vehicle PSLV-C52 injected Earth Observation Satellite EOS-04, into an intended sun synchronous polar orbit of 529 km altitude at 06:17 hours IST on February 14, 2022 from Satish Dhawan Space Centre, SHAR, Sriharikota. PSLV lifted off at 05:59 hours IST from the first launch pad at SHAR. This was the 80th launch vehicle mission from SDSC SHAR, Sriharikota; 54th flight of PSLV; and the 23rd flight of PSLV in XL configuration (6 strap-on motors). The satellite EOS-04 is realised at U R Rao Satellite Centre, Bengaluru. It is a Radar Imaging Satellite designed to provide high quality images under all weather conditions for applications such as Agriculture, Forestry & Plantations, Soil Moisture & Hydrology and Flood mapping. Weighing about 1710 kg, it generates 2280 W power and has a mission life of 10 years. The vehicle also placed two small satellites a student satellite (INSPIRESat-1) from Indian Institute of Space Science & Technology (IIST) in association with Laboratory of Atmospheric & Space Physics at University of Colorado, Boulder and a technology demonstrator satellite (INS-2TD) from ISRO, which is a precursor to India-Bhutan Joint Satellite (INS-2B). Co-passenger satellites were successfully separated from the PSLV in a predetermined sequence.

JAXA Creates Consortium to Study Navigation and Communication Technology for Lunar Activities

February 15, 2022 – ArkEdge Space Inc. has been awarded a contract by the Japan Aerospace Exploration Agency (JAXA) to study navigation and communication technology development for lunar surface activities. The government of Japan has chosen "A Study of Navigation and Communication Technology Development for Lunar Surface Activities" (Ministry of Education: Culture, Sports, Science and Technology (MEXT)) as one of the Strategic Programs for Accelerating Research, Development and Utilization of Space Technology (STARDUST Program). JAXA has been assigned to manage the project and selected ArkEdge Space as a primary contractor. The study will be conducted by a consortium formed by ArkEdge Space, including ispace, inc., AAI – GNSS Consulting Office, Kiyohara Optics Inc., KDDI Corporation, KDDI Research, Inc., The Graduate School of Engineering – The University of Tokyo, and Mitsubishi Precision Co., Ltd. From mid-January until March 25, 2022, the consortium will work on proposing lunar navigation and communication architecture which is expected to become infrastructure of lunar exploration. This includes designing a concept of a lunar

navigation satellite system and lunar-earth communication system and its development plan. The study is expected to develop architecture as well as to accelerate research and development of key technologies that could contribute to international discussion in the future.

OneWeb Confirms Successful Launch of 34 Satellites, Delivering Ongoing, Momentum at the Start of 2022

February 11, 2022 – OneWeb, the low Earth orbit (LEO) satellite communications company, yesterday confirmed the successful deployment of 34 satellites by Arianespace from the Guiana Space Center in Kourou, French Guiana. This launch, the Company's first in 2022 and 13th overall, brings OneWeb's total in-orbit constellation to 428 satellites. It represents 66 percent of OneWeb's planned 648 LEO satellite fleet that will deliver high-speed, low-latency global connectivity. This launch kicks off a successful start to 2022 as demand for OneWeb's broadband connectivity services has continued to grow across telecommunications providers, aviation and maritime markets, ISPs, and governments worldwide. Most recently, the Company has signed new distribution partnership agreements with several companies in the last month – including Hughes Network Systems, Marlink, and Field Solutions Holdings – to help ensure connectivity is delivered to the most hard-to-reach places globally. Liftoff of the latest launch occurred on Thursday, 10th of February 2022. OneWeb's satellites separated from the rocket and were dispensed in nine batches over a period of 3 hours 33 minutes with signal acquisition on all 34 satellites confirmed.

Arianespace's Thirteenth Flight for OneWeb Successfully Deployed 34 Additional Satellites

February 10, 2022 – Flight VS27 was the first Arianespace's mission of 2022 and the 340th launch overall for the Arianespace family of launchers Ariane, Soyuz and Vega. Performed on Thursday, February 10 at precisely 03:09 p.m. local time at Guiana Space Center, this mission orbited 34 OneWeb satellites bringing the size of the fleet in orbit to 428. The OneWeb constellation will deliver high-speed, low-latency connectivity to a wide range of customer sectors, including aviation, maritime, backhaul services, and for governments, emergency response services and more. Central to its purpose, OneWeb seeks to bring connectivity to every place where fiber cannot reach, and thereby bridge the digital divide. Once deployed, the OneWeb constellation will work with user terminals that are capable of offering 3G, LTE, 5G and Wi-Fi coverage, providing high-speed access globally – by air, sea and land. The medium-lift Soyuz (produced by Progress Space Rocket Center, part of the Russian State Space Corporation Roscosmos) entered service from Europe's Spaceport in French Guiana in October 2011, bringing the industry's longest-operating launcher to the world's most modern launch base. Soyuz is a four-stage launcher, designed with extremely high reliability requirements for its wide range of missions, including human space flights.

Spire and Exolaunch Signed a Multi-launch Agreement to Launch Future Spire Satellites Using Upgraded Deployer Technology

February 10, 2022 – Spire Global and Exolaunch have closed a new contract for a multi-launch agreement (MLA). Through this MLA, Spire gains fast and regular access to space for its own satellite constellation as well as for all of its customers to enhance Spire's "space-as-a-service" offerings. The first Spire satellites deployed as part of this agreement are already manifested on SpaceX's Transporter missions this year under Exolaunch's long-term launch arrangements with SpaceX. Exolaunch will also be providing Spire with deployment and integration services on small launchers. In addition to Exolaunch's turnkey launch solutions, the contract also includes the EXOpod Nova, the next generation EXOpod deployer based on Spire specifications for an expanded-envelope 3U cubesat. This deployer will enable Spire to build larger, heavier, and more capable cubesats while keeping their launch costs low. Nova is designed to deploy batches of Spire's satellites for its constellation. The EXOpod Nova increases the allowable satellite mass by up to 30 percent and the available side panel volume by a factor of four compared to traditional cubesat deployers. Exolaunch aims to further use the EXOpod Nova on its Reliant orbital transfer vehicle (OTV) next year to provide launch flexibility to cubesat constellations.

HKATG to Launch 25 Satellites in 2022

February 10, 2022 – Hong Kong Aerospace Technology Group, Ltd. (HKATG), a leading aerospace firm traded on the Hong Kong stock exchange (HKEx) announced that its wholly owned subsidiary Gang Hang Ke (Shenzhen) Space Technology ("SZ Gang Hang Ke") has entered into a second satellite launch service confirmation agreement with China Great Wall Industry Corporation (CGWIC), a state-owned enterprise in Mainland China. Under the agreement, SZ Gang Hang Ke is tentatively scheduled to launch the two satellites, Golden Bauhinia Satellite No. 3 and Golden Bauhinia Satellite No. 4, in July of this year. The continued launching of satellites is expected to speed up the timetable for the completion the Golden Bauhinia Constellation project as well as enhance the operations of the smart city in the process of being rolled out in the Guangdong-Hong Kong-Macau Greater Bay Area (GBA). HKATG plans to launch 25 satellites in 2022.

Pixxel Selects Dawn Aerospace Propulsion for Hyperspectral Imaging Constellation

February 9, 2022 – Dawn Aerospace announced it is providing satellite propulsion to hyperspectral imaging company Pixxel. An emerging leader in cutting-edge Earth-imaging technology, Pixxel is building a health monitor for the planet through a constellation of hyperspectral imaging small satellites. Pixxel's constellation will serve industries like agriculture, resources, energy, and sustainability, providing valuable insights into productivity and environmental management. Compared to standard multispectral imaging, Pixxel's hyperspectral technology can obtain 50 times more information by capturing exact chemical signatures, offering more accurate solutions to previously unsolvable issues, and is available at a lower cost than existing technology. As a result, Pixxel's hyperspectral imaging has the power to help with pressing issues, such as flagging pest infestations and crop diseases, tackling air and water pollution levels, and detecting oil spills and gas leaks.

Thales Alenia Space Paves the Way to the Future Satellite Navigation Systems

February 7, 2022 – Thales Alenia Space has been awarded a contract by the French Space Agency CNES to develop a DFMC (Dual Frequency Multi Constellations) SBAS prototype in the frame of the next generation of SBAS, like EGNOS, the European navigation satellite system. This prototype will complement both GPS and Galileo systems taking benefit of signals transmitted in multiple frequencies for better performances in particular dedicated to aviation navigation and landing, but also to any applications demanding a highly reliable and a highly accurate positioning information. When developed, this prototype will be deployed and tested in an operational mode in real condition using a geostationary satellite. The performances will be analyzed in details according to international standard criteria as accuracy, availability, continuity and service integrity.

Mitsubishi Electric Announced for Team AUSSAT's Australian Satellite Defence Tender

February 3, 2022 – Optus announced Mitsubishi Electric satellites for Team AUSSAT's JP9102 Australia Defence Communication System proposal. Mitsubishi Electric will manufacture Australia's next generation of Defence satellites as part of Team AUSSAT's proposal, which already encompasses leading Defence partners Raytheon Australia and Thales Australia. Optus and Mitsubishi Electric have a longstanding collaboration, including the highly successful Optus C1 satellite, which currently provides critical mission capabilities to the Australian Defence Force. Mitsubishi Electric's extensive space experience brings a proven history in supplying more than 70 satellites as a prime contractor and providing onboard equipment for more than 500 spacecraft to customers around the world. Team AUSSAT's unique proposition leverages over 12,000 Australians already employed, and its JP9102 offering will create a unique, highly skilled Australian workforce with unrivalled national space experience, capacity and capability for the future.

Maxar Extends Satellite Capacity Agreement with European Space Imaging and Space Imaging Middle East

February 3, 2022 - Maxar Technologies announced a new five-year agreement with European Space Imaging and Space Imaging Middle East, strategic partners serving customers in Europe, Northern Africa and the Middle East. European Space Imaging and Space Imaging Middle East provide Maxar high-resolution satellite imagery to a wide spectrum of government and commercial organizations for applications including border security, disaster response and agriculture. Continuing an 11-year partnership, European Space Imaging has reserved dedicated capacity on Maxar's existing WorldView satellite imaging constellation, accessed directly via its ground station in Germany. The agreement also provides for upgrades to European Space Imaging's ground station that would allow it to access Maxar's next-generation WorldView Legion satellites.

KSAT to Launch Satellite and Mission Control

February 2, 2022 – From the Satellite Operation Center at KSAT headquarters, a dedicated group will perform satellite and mission adapted satellite and payload services for the entire life span of the spacecraft. This will increase operational reliability and reduce cost of operation. KSAT's state-of-the-art Satellite Operation Center will provide both hands-on and automated systems for managing satellites from launch to decommissioning. It is closely integrated with the global ground network, ensuring seamless scheduling, tasking and ground station operation. One of the first missions where KSAT will be providing this service is for the Arctic Satellite Broadband Mission (ASBM), a satellite-based broadband in the Arctic. Space Norway will as the contractor of this mission, in cooperation with Inmarsat and the Norwegian prime contractor Space Norway, offer mobile broadband coverage to end-users in the Arctic.

Second Generation COSMO-SkyMed Satellite Successfully Launched

February 1, 2022 – The second satellite of the COSMO-SkyMed Second Generation (CSG) constellation, built by Thales Alenia Space, and operated in orbit by Telespazio, a joint venture between Leonardo (67%) and Thales (33%), was successfully launched today at 00.11 CET from Cape Canaveral Air Force Station, Florida (USA), on board of a SpaceX Falcon 9 rocket. Fifteen minutes after the separation from its launcher, the satellite was acquired and controlled by Telespazio's Space Centre based in Fucino. The second-generation COSMO-SkyMed (COSMO-SkyMed – COnstellation of Satellites for the Mediterranean basin Observation) is a constellation financed by the Italian Space Agency (ASI) with funds allocated by the Italian Ministry of University and Research alongside the Italian Ministry of Defence. It will guarantee the operational continuity of SAR (Synthetic-Aperture Radar) Earth observation services currently provided by the four first-generation COSMO-SkyMed (CSK) satellites launched into orbit between 2007 and 2010 and still operational.

EXECUTIVE MOVES

INTEGRASYS Welcomes Jeffrey S. Hunsucker, New US Senior Sales Director

February 15, 2022 – With a lot of experience in successful sales in the Telecom & Satellite Industry, particularly in DOD & DOE, Jeffrey is a proven leader who responds to challenges with confidence and determination. He has been recruited by INTEGRASYS, to develop the business and lead the Americas sales teams. Having previously worked in positions like Director Key Clientele or Regional Sales Director in US & Canada, for INTEGRASYS partners such as iDirect, Comtech, or Spacebridge. Jeff brings a great knowledge of sales and management to a fast-growing company with innovative solutions as INTEGRASYS is. As a Senior Sales Director, Jeffrey will lead America's sales, with high communication skills to establish strong and long-term relationships with customers and partners, negotiate commercial agreements and manage complex sales processes.

XipLink Announces Appointment of Jaco Botha, SVP of Product

February 7, 2022 – XipLink, the technology leader in Wireless Link Optimization, is proud to announce that Jaco Botha, based in South Africa and Ashburn, Virginia, has joined the XipLink team as Senior Vice President of Product. Mr. Botha will have responsibility for all Product Management,

Product Marketing and Alliance Partnership functions for the company moving forward. In addition, he will be a key contributor to the senior management committee that sets strategic direction for XipLink and our employees. Jaco has been a stockholder and senior manager in the past via the 2008 acquisition of his company, Trispen Technologies, and his subsequent role as VP of Engineering at XipLink. Most recently, Jaco has gained in depth experience in LEAN product development processes, product management process establishment and managing multidisciplinary teams at startup companies.

Iridium Names Kathy Morgan as New Chief Legal Officer

February 3, 2022 – Iridium Communications Inc. today announced that Kathy Morgan has been named its Chief Legal Officer (CLO). Morgan assumed this position effective January 1, 2022, succeeding former CLO Tom Hickey. Previously, she served as Iridium’s Vice President of Corporate Law. Morgan joined Iridium in 2008 to assist with the company’s corporate development and financing activities that culminated in Iridium’s listing as a public company. She’s worked closely over the years with Iridium’s finance organization on Securities and Exchange Commission (SEC) matters, equity offerings, financings, investor relations, executive compensation, and human resources activities, led Iridium’s Environmental, Social, and Governance (ESG) efforts and has supported Iridium’s Board of Directors.

REPORTS

Euroconsult’s New Whitepaper Highlights Ground Segment’s Pivotal Role as the Enabler of a New Era in Satellite Connectivity

February 22, 2022 – The satellite industry is set for unprecedented transformation, with the impact of cloud-based systems, the introduction of next-generation NGSO broadband constellations, and convergence towards a unified 5G network architecture. However, ground segments will also have to play a pivotal role to allow the industry to fully embrace and benefit from these changes. While satellites have embarked on a journey that will allow them to blend in seamlessly with every other type of access technology, creating full interoperability within end-to-end converged networks like 5G, this new era of connectivity can only be realised through innovation on the ground. This spirit of revolution will see the satellite industry embracing key technology enablers that are already well-known in the telco world and adopting them to reduce operational complexity and to unite the next generation of cellular networks with next generation satellite networks.

NSR Report Projects \$14.3 Billion in Revenues as Non-Geo Constellations Grow Demand

February 15, 2022 – In its 5th year, NSR’s first to market *In-Orbit Services: Satellite Servicing, ADR, and SSA, 5th Edition (IoSM5)* forecasts \$14.3 Billion in IoSM revenue, driven by Life Extension, generating \$4.7 Billion through 2031. As the race to launch Non-GEO Satellite Constellation grows, thousands of satellites are set to launch through the coming decade growing demand for IoS. Over the next decade, NSR’s IoSM5 anticipates growth for all In-Orbit Service applications. The Space Situational Awareness (SSA) market, guided by the need to track assets, is expected to grow fast, and reach a \$3.7 Billion opportunity. And Active Debris Removal will be the fastest-growing area, at 38% CAGR, driven by innovative technology and increasing demand for maintaining secure & sustainable orbits for satellite constellations.

NSR Report Projects \$2 Billion Optical Satcom Market Driven by Non-GEO Constellations

February 8, 2022 – NSR’s newly released *Optical Satellite Communications, 4th Edition (OSC4)* projects a \$2 Billion Optical Satcom market for equipment, driven primarily by upcoming Non-GEO constellations. As Optical Satcom growth trends upwards at a 47% CAGR, projected demand reaches 6,000+ laser communication terminal (LCT) units over the next decade. Optical Satcom is situated to significantly impact both core commercial Satellite Applications industries- Communications and Earth Observation. LCTs enable transition into higher bandwidth services for satcom and deliver a

robust backbone network for backhaul and trunking services via mesh connectivity and lower latency. Similarly, Optical offerings provide high bandwidth pipes for data downlink, meeting next generation Earth Observation satellite demands as increasing sensor resolution and ever more satellites lead to need for higher data rates for download.

UPCOMING EVENTS

APSCC 2022 Webinar Series, Virtual Event, <https://apscsat.com>
LIVE Tuesday 9 AM HK | Singapore Time

Smallsat Symposium 2022, February 8-10, Silicon Valley, CA, USA, <https://2022.smallsatshow.com/>

Paris Space Week 2022, March 14-15, Puteaux, France, <https://www.paris-space-week.com/>

Satellite 2022, March 21-24, Washington DC, USA, <https://www.satshow.com>

Convergence India 2022, March 23-25, New Delhi, India, <http://www.convergenceindia.org>
Redefining the digital landscape of India, the Convergence India 2022 expo, undoubtedly, has grown to become one of the most influential expos in India by successfully hosting cutting-edge exhibitions and concurrent conferences. Launched in 1992, the Convergence India series of expos is widely credited as a leading exhibition in India, in the realms of technology. The expo aims to bring together, under one roof, the latest technology innovations and trends from the Telecom and Mobile industry, Broadcast and Digital Media, and Embedded System as well as emerging technologies & enterprise solutions. With three decades of experience in hosting expos in India, we provide a valuable opportunity for the industry leaders to deliberate on the latest trends and disruptions impacting various industry verticals. The three-day extensive exhibition and the most engaging conferences in India are all set to host a plethora of researchers, scholars, policymakers and decisions makers shaping a smart and digital future.

OTT Summit, March 30-31, <https://avia.org/>

So much of the talk these days about OTT is about the G Word – Growth. Increasingly international operators are looking to Asia to replace the growth that has slowed in North America and Europe. Is Asia the growth opportunity everyone is searching for and if so, how does it get unlocked? Is OTT still in the early stages of growth or is there a danger that a 30-year cycle of growth in Pay TV has been condensed to a 7-year cycle for OTT? Join us on **30 – 31 March** at the **OTT Summit** as we speak to some of the industry's top leaders for their insights into these questions and more, as they gear up for greater growth and expansion for their businesses in 2022 and beyond. Visit ottsummit.asia for more details about the event.

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

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

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

Future of Video India, April 29, https://avia.org/all_events/future-of-video-india-29-april-2022/

Over the last four years, the battleground for video streaming services has slowly been shifting from the United States to India. According to a report by Boston Consulting Group, the OTT market in India is the fourth largest in the world and is expected to grow to USD\$15 billion over the next decade at a CAGR of 25 per cent. Despite this enormous growth, video streaming platforms are far from making profits and are instead strapped with high content costs, low ARPUs, an overcrowded

marketplace with too many consumer options, and the perennial challenge of piracy. How does one make sense of the video streaming market in India today? Where are the revenues despite its large base of viewers, and what will drive the next wave of growth for the streaming landscape? The **Future of Video India** aims to address some of these key questions and look at how business models are changing and adapting in the coming year. Visit https://avia.org/all_events/future-of-video-india-29-april-2022/ for more details about the event.

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

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

EDITORIALS AND INQUIRIES

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

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About APSCC

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