

APSCC Monthly e-Newsletter

May 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 April 1 to April 30.

INSIDE APSCC

APSCC 2022 Webinar Series Continues LIVE Tuesday 9AM HK | 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>.

APSCC 2022 Satellite Conference & Exhibition (APSCC 2022), October 18-20, Seoul, Korea

The APSCC Satellite Conference and Exhibition is Asia's must-attend executive conference for the satellite and space industry, where business leaders come together to gain market insight, strike partnerships and conclude business deals. The APSCC 2022 Satellite Conference & Exhibition, with the theme "Reuniting Space in Asia", will incorporate industry veterans and new players into the program to reach out to a broader audience. Mark your calendar for the APSCC 2022 and expand your business network while hearing from a broad range of thought provoking panels and speakers representing visionary ideas and years of business experience in the industry. Contact info@apsc.or.kr for general inquiries to the APSCC 2022.

SATELLITE BUSINESS

AST SpaceMobile Announces Collaboration with Globe Telecom of the Philippines

April 28, 2022 – AST SpaceMobile, Inc., the company building the first and only space-based cellular broadband network designed to be accessible directly by standard mobile phones, announced a MoU with Globe Telecom, Inc. Globe is a leading digital platform in the Philippines, serving consumers and businesses' telecommunications and technology needs, including about 86 million wireless subscribers. Once launched, AST SpaceMobile would aim to provide Globe with expanded coverage and reach to remote and underserved areas. AST SpaceMobile has entered into agreements and understandings with mobile network operators which collectively service over 1.8 billion cellular customers.

Intelsat Selects Gilat to Provide Satellite Cellular Backhaul Solution to a Leading Mobile Telecom in the DRC

April 27, 2022 – Gilat Satellite Networks Ltd. announced today that the Company has been selected in a multimillion-dollar deal with Intelsat, operator of the world's largest integrated satellite and terrestrial network, to provide the satellite cellular backhaul solution for a leading mobile telecommunication company in the Democratic Republic of the Congo (DRC). Intelsat deployed its

CellBackhaul service with Gilat's SkyEdge II-c platform and Capricorn VSATs, connecting with a Ku-band satellite to bring mobile communications to nearly 1,000 previously underserved and unserved remote sites. The implementation brings mobile services to deep rural sites in the DRC, geographically the second-largest nation in Africa, with a growing population of more than 90 million people. Working together, Intelsat and Gilat are extending mobile connectivity to areas where terrestrial backhaul networks are impractical, expensive, or otherwise unfeasible to deploy.

SKY Perfect JSAT and NTT Agree to Establish Space Compass Corporation

April 26, 2022 – NTT Corporation and SKY Perfect JSAT Corporation announced today that the parties have reached an agreement and signed a contract to establish a joint venture company that will launch a novel integrated space computing network to aid the realization of a sustainable society. The joint venture will take on the challenge of building new infrastructures in space, where business led by the private sector is expected to grow in the future, and contribute to the creation of a sustainable society. By taking on the challenge of creating new infrastructures, starting with the optical and wireless communication network to be built in space and the mobile network to be built in the stratosphere, the joint venture will contribute to the development of the global space industry and the realization of a sustainable society.

GapSat Signs Ku/Ka Band Long Term Service Agreement with QSTC Inc. of Canada

April 26, 2022 – QSTC Inc. of Canada, announced the signing of an agreement with GapSat Development Group Ltd. for the provision of turnkey Ku- and Ka-band services using a dedicated small Geostationary Earth Orbit (GEO) satellite to be known as GapSat-A. Under the scope of the agreement, QSTC is the prime contractor responsible for delivering the services, based on the use of its fully electric satellite platform, Sigma 1, with a fully processed payload together with satellite control and ground segment. GapSat decided to enter into this agreement with QSTC, because until now significant customer demand could not be met at short notice. GapSat-A, through its highly flexible payload covering all the frequencies in the Ku- and Ka-bands, and its ability to relocate at high speeds, between missions will allow GapSat to address this pent-up demand. GapSat was advised by GH Partners of New York.

SES and ComClark to Deliver Educational Content via Satellite to 2,000+ Schools across Philippines

April 26, 2022 – SES and ComClark Network and Technology Corporation announced today that together they are empowering thousands of Philippine educators with high-speed satellite-based connectivity to deliver content to over 2,000 remote schools across the country to improve the quality of teaching and learning. The content delivered via SES's SES-9 satellite will provide students with equal access to quality education, even to those in the most remote locations. Under this partnership with SES, ComClark will access the Ku-band capacity from the SES-9 satellite via its own teleport and connectivity technologies for voice, video, and data applications to connect the data centre, and simultaneously datacast education materials and curriculum to all participating public schools country-wide.

UltiSat Signs Distribution Agreement with OneWeb for LEO Based Satellite Connectivity

April 26, 2022 – UltiSat has announced a new distribution agreement with OneWeb Technologies to include its Low Earth Orbit (LEO) based satellite communications services as part of the UltiSat portfolio for government and mobility markets. The agreement is part of an ongoing product and services expansion strategy implemented by UltiSat late last year. The strategy is focused on evaluating the wide range of newly emerging satellite-based technologies and helping customers to implement those best suited to their particular mission requirements. The distribution arrangement will leverage OneWeb's growing constellation of LEO communications satellites and certified remote terminals, to provide global end-to-end connectivity. The new LEO service offers high speed links with lower latency than traditional Geosynchronous (GEO) satellites. By combining the OneWeb Technologies service with UltiSat's self-owned and operated Global Interconnect Network (GIN),

customers can benefit from cutting-edge LEO satellites and connect their remote sites directly to a secure private ground network, a cloud-based service, or the public internet.

Kratos Awarded Contract to Deliver OneWeb Spectrum Monitoring System for its LEO Satellite Constellation

April 25, 2022 – Kratos Defense & Security Solutions, Inc. has been awarded a contract to deliver an advanced spectrum monitoring system for OneWeb to monitor, analyze and review the utilized spectrum to support high quality of service for its fleet of Low Earth Orbit (LEO) constellations. The system will monitor the spectrum used between its global network of Satellite Network Portal (SNP) gateways and its constellation of LEO satellites. The OneWeb Spectrum Monitoring System (OSMS) will help staff monitor, manage and analyze this spectrum, the radio frequencies that satellite signals travel over. The OSMS will incorporate Kratos' industry-leading, integrated spectrum monitoring capabilities to enable real-time management of Radio Frequency (RF) usage and to monitor compliance with frequency transmission regulations. As part of the contract, Kratos is responsible for designing, developing, and installing the OSMS and integrating the system with OneWeb's ground segment.

Inmarsat Combats Rising Maritime Cybercrime with Fleet Secure Unified Threat Management

April 25, 2022 – Inmarsat has launched Fleet Secure Unified Threat Management (UTM), as a standard option on Inmarsat's award-winning Fleet Xpress service, protecting vessel networks against cyberattacks. Fleet Secure UTM completes a portfolio of Inmarsat cyber security solutions for ship owners, which includes Fleet Secure Endpoint and Fleet Secure Cyber Awareness Training. Developed in partnership with maritime Cyber Security specialist Port-IT, the resilience of Fleet Secure UTM protection is based on its consolidation of multiple network security tools in a single application. Depending on user preferences, Fleet Secure UTM capabilities can include gateway anti-virus software, intrusion detection, and prevention, web-content filtering, and application control. However, all Fleet Secure UTM users get asset management, alerting, and reporting capability that fully aligns with International Maritime Organization 2021 compliance on cyber security risk management.

ST Engineering iDirect's Mx-DMA[®] MRC Return Technology Leveraged by X2nSat and Dejero

April 25, 2022 – ST Engineering iDirect, a global leader in satellite communications, announced today that satellite service provider X2nSat is leveraging its breakthrough Mx-DMA[®] MRC return technology on the Newtec Dialog[®] platform to power their Smart Blending Technology developed by its partner Dejero. Featuring blended cellular and Ku-band satellite communications, the Smart Blending Technology is a resilient connectivity solution that allows the delivery of live broadcasts and enables transmission continuity and disaster recovery by broadcasters and public safety agencies. ST Engineering iDirect's Mx-DMA MRC technology is an award-winning, patented multi-access waveform that incorporates the scalability of MF-TDMA with the efficiency of single channel per carrier (SCPC) into a single return technology. It enables service providers to cover a myriad of use cases in a single return link sharing capacity across multiple terminals and applications without making tradeoffs between speed, efficiency and scale, lowering their total cost of ownership.

Kymeta to Offer Mission-Critical LEO Satellite Connectivity Services to Government Market through New Partnership with OneWeb Technologies

April 19, 2022 – Kymeta announced an agreement to distribute reliable, secure, and cost-effective broadband connectivity services to the U.S. government. The new managed satellite service offering enables Kymeta to provide government customers with hardware solutions that are packaged with secure and resilient network access from OneWeb Technologies, a wholly owned subsidiary of low Earth orbit (LEO) satellite communications company OneWeb. Access to broadband connectivity services from the leading satellite connectivity platform will provide customers with an additional mission-critical connectivity resource, supplementing Kymeta's existing broadband geostationary

orbit (GEO) and 4G cellular service offering.

New IoT Spectrum Leasing Service from Inmarsat to Drive Growth for IoT Solution Providers

April 14, 2022 – Inmarsat is launching a new IoT spectrum leasing service for satellite IoT start-ups and organisations providing IoT solutions over satellite. The IoT Leasing service provides IoT solution providers with the ability to build flexible, virtual satellite networks harnessing Inmarsat’s ELERA global L-band network, the leading satellite network for the internet of things. The new offering is enabled by Inmarsat’s ground-breaking Dynamic Lease Management capabilities, delivering to providers the ability to flexibly alter their virtual satellite networks, depending on their business need. Inmarsat’s new IoT Leasing service, with Dynamic Lease Management, allows customers to change the geographical focus of the beams they lease – and the bandwidth and power it provides. Rather than paying for static access in every beam they operate in and having to make hard business decisions as to which regions to expand to, IoT solution providers can now control how much coverage they need depending on their business needs and customer demand. This new approach to leasing will help reduce expenditure on network infrastructure, savings they can then pass on to their customers or use to focus on product development.

Spacecom Wins Multi-Million Dollar Contract from Get SAT to Support Large SATCOM On-the-Move Project

April 14, 2022 – Spacecom has been awarded a multi-million contract to support on the move satellite communication networks via the AMOS-17 satellite, from Get SAT, an innovator in small, lightweight satellite communication terminals for airborne, ground, and maritime applications. The contract is to provide the project’s network requirement needs. The combination of Get SAT products and Spacecom’s services will provide the customer with unparalleled adaptability for multiple mission profiles. Spacecom’s solution was selected due to its high-performance characteristics following a long evaluation process involving multiple solutions.

Viasat Receives Landmark Validation of Supplemental Type Certificate for IFC System on Airbus A320 Aircraft in China

April 13, 2022 - Viasat Inc. has been awarded a Civil Aviation Administration of China (CAAC) Validation of Supplemental Type Certificate (VSTC) to install its complete, advanced Ka-band satellite system on Airbus A320 series of aircraft. This CAAC validation, Viasat's first in China, lays the foundation for Chinese airlines to install and deploy Viasat's industry-leading In-Flight Connectivity (IFC) system, including antenna, radome, modem, server and WAPs, on Airbus A320s. The CAAC VSTC was awarded based on an Airbus A320 STC previously certified by the European Union Aviation Safety Agency (EASA). It joins a portfolio of STCs that has been applied globally on 1,800+ commercial aircraft installed with Viasat's in-flight connectivity system. In total, the Company's current IFC solution has accumulated more than 16.5 million flight hours.

Northrop Grumman Australia and IntelliDesign Partner for Sovereign Secure Communication Capability

April 12, 2022 – Northrop Grumman Australia has entered into an agreement with Australian electronics engineering company IntelliDesign for hardware design services and contract manufacturing of Secure Communications Solution (SCS) devices. Northrop Grumman Australia’s sovereign SCS-200 capability provides simple, secure network access for deployed teams and individuals, supporting customers such as the Department of Defence and Department of Home Affairs. The agreement supports IntelliDesign’s engagement on future projects across the business. It also incorporates new Commonwealth of Australia requirements and expands on supply chain governance and assurance in areas such as cyber security.

PSN Group Selects Hughes JUPITER System for Third Satellite Serving Indonesia

April 12, 2022 - Hughes Network Systems, LLC announced that PT Pasifik Satelit Nusantara (PSN), the

oldest private telecommunication and information service provider in Indonesia, selected the Hughes JUPITER™ System to enable services on the Nusantara Lima very high-throughput satellite. Eleven JUPITER gateways will power 100 Gbps of capacity across Indonesia and nearby countries to bring internet access to people living outside the reach of terrestrial broadband. This award follows PSN's earlier selection of the JUPITER System for the Satellite of the Republic of Indonesia (SATRIA), currently under construction, and the Nusantara Satu satellite (formerly known as PSN VI), now in service. In addition to choosing the Hughes technology as the ground platform for several satellites, PSN employs JUPITER equipment to light up Community Wi-Fi hotspots across Indonesia. The JUPITER System is the next-generation Very Small Aperture Terminal (VSAT) platform from Hughes, in use at more than half of all VSAT implementations worldwide. Widely considered the de facto industry standard, the JUPITER System enables software-defined satellite networking and virtualized, cloud-enabled network management for the highest possible performance and cost efficiencies.

Intelsat Supports Programmers with Cloud Connect Media

April 12, 2022 – Intelsat has announced its latest service offering: Cloud Connect Media, a connectivity solution that provides programmers with secure access between the IntelsatOne Media Network and Amazon Web Services (AWS). Cloud Connect Media is designed to provide content providers with a private, dedicated secure gateway between AWS and the Intelsat global media distribution network. Intelsat is an AWS Select Partner in the AWS Partner Network (APN). This collaboration can provide Intelsat media customers a more efficient way to connect to their playout, video editing, and additional resources they use in the cloud while still accessing the IntelsatOne media network for centralized distribution and managed services, including uplink and/or downlink to key satellites and teleports, colocation, and much more. In addition to advancing media services, Intelsat customers using enterprise and commercial aviation connectivity services who also require dedicated secure connectivity to their cloud-based services will be able to take advantage of AWS Direct Connect. Cloud Connect Media expands the capabilities of Intelsat's Cloud Connect, launched in 2020 with secure cloud connectivity available to customers of the global FlexEnterprise network. As organizations continue to integrate cloud-based services into their operations, the Cloud Connect portfolio will aggregate the capabilities of cloud partners and Intelsat's global networks to enable new services and extend the benefits and reach of the cloud to locations around the globe. Cloud Connect Media is currently available in the United States and Europe.

Comtech Telecommunications to Supply SES with O3b mPOWER Gateway and User Terminals

April 12, 2022 – Comtech Telecommunications is supplying gateway and user terminal antenna systems to SES for its second-generation O3b mPOWER Medium Earth Orbit ("MEO") satellite constellation. These antenna solutions are part of Comtech's Failsafe Communications product suite and were designed and will be manufactured at Comtech's new technology center in Basingstoke, United Kingdom. Comtech's antenna systems that can be used with the O3b mPOWER satellite constellation range in size from the 5.5-meter gateway intended for telemetry, tracking and control (TT&C) to 2.4-meter antennas for enterprise and government use. Compared with existing O3b gateways, Comtech's dual-drive X/Y antennas offer huge advantages over traditional Azimuth/Elevation systems, to include precision tracking, multi-orbit support and easier installations. Comtech's carbon fiber reflector is a light weight, rigid structure, and stable over extreme temperature ranges, which is critical for Ka-band surface accuracy. The lighter-weight reflector design utilizes smaller drive motors, experiences less component stress for longer life and lower power consumption during the constant trace/retrace operation needed for non-geostationary satellite tracking, resulting in overall lower capital and operational costs.

Viasat and Batelco Sign MOU for the Commercialization and Distribution of Business-to-Business Broadband Connectivity Services across MENA

April 12, 2022 – Viasat Inc. and Bahrain Telecommunication Company announced the signing of a MOU to engage in several business-to-business (B2B) service opportunities across the Middle East

and North Africa region. The non-binding MOU between Viasat and Batelco focuses on the potential commercialization and distribution of satellite broadband connectivity to businesses in the MENA region. Viasat and Batelco seek to leverage satellite broadband capacity from Viasat's current satellite systems, with plans to evolve to the ViaSat-3 satellite platform, once launched and operational. As a first step of the MOU, the companies expect to implement a proof-of-concept trial within the next several months.

Kacific Introduces Asia Pacific's First HTS Ka-band Enterprise Backup Service

April 11, 2022 – Kacific Broadband Satellites Group has responded to a growing interest in connectivity protection by launching Enterprise Backup, a service that protects organisations against outages that happen all-too-frequently. It is the first enterprise backup service in the Asia Pacific region designed to take advantage of the speed, efficiency and flexibility of Ka-band satellite connectivity. Kacific Enterprise Backup provides a very affordable on-demand, hot-backup package that allows organisations, factories, and enterprise branches who rely heavily on real-time business operations to continue with normal activities if their primary internet access is compromised. The service includes installation of a satellite dish at each site, and a choice of low-cost per-month, per-site backup plans depending on the organisation's size and needs. Working like an insurance premium, a minimal fee is paid for the site to act as a backup. In the case of an outage, high-speed first priority bandwidth can be instantly activated and a fixed fee will be charged.

SES Expands Multi-Cloud Offerings with Oracle Cloud Infrastructure FastConnect

April 7, 2022 – SES, a member of Oracle Partner Network (OPN), today announced it will offer private, dedicated connectivity to Oracle Cloud through Oracle Cloud Infrastructure (OCI) FastConnect. Customers can harness the power of Oracle Cloud locally, including Oracle Autonomous Database, to unlock innovation and drive business growth. The direct access to Oracle Cloud as a FastConnect partner is part of SES's strategy of offering customers high-performance, low-latency and secure connections to the leading public cloud providers. SES will be using its Cloud Direct service to connect customers to Oracle Cloud applications and services over its network of medium earth orbit (MEO) and geostationary (GEO) satellites – a key advantage for enterprises, the government and other customers who require low-latency and secure connections in remote, rural or other locations with limited network options. The Cloud Direct service will also be available on SES's next-generation MEO constellation, O3b mPOWER, launching this year. O3b mPOWER will provide SES customers with satellite-enabled cloud connection, supporting multi-gigabit services that adapt dynamically to network demand. With OCI, customers benefit from best-in-class security, consistent high performance, simple predictable pricing, and the tools and expertise needed to bring enterprise workloads to the cloud quickly and efficiently.

Microsoft, SES and Nokia Demonstrate Satellite and 5G Integration for Australian Defence Remote Access to Azure Cloud Services

April 5, 2022 - As Defence organisations continue to respond to new threats and changing strategic circumstances, it's crucial that they have access to the best possible technology for modernised military capabilities and high-performance operations. One of the biggest challenges is the ability to access and share increasingly large volumes of data from remote locations quickly and securely, and then analyse the data to inform real-time decision-making. To help meet these demanding requirements, Microsoft, SES, and Nokia have successfully demonstrated secure access to the Azure cloud platform over private 5G and satellite communication (SATCOM) networks, enabling the use of cloud services anytime and anywhere, including remote and austere environments. Through the integration of SATCOM, 5G, and cloud computing, the demonstration established a reference architecture to deliver remote access to enterprise systems, remote access to data, and the ability to conduct analysis simultaneously in the field and in the hyper-scale cloud. For this demonstration, military vehicle data was streamed over private 5G, viewed and analysed in the field, and then delivered in real-time to an enterprise maintenance system in Azure over SATCOM.

Hughes Announces Distribution Agreement with OneWeb Technologies

April 5, 2022 – Hughes Network Systems, LLC has signed a distribution agreement with OneWeb Technologies Inc., a wholly owned subsidiary of OneWeb, to deliver managed Low Earth Orbit (LEO) services to the U.S. Department of Defense (DoD). The agreement follows the launch of the industry’s first managed LEO satellite communications (SATCOM) network for the DoD, an implementation led by Hughes in the Arctic region for the U.S. Air Force Research Lab (AFRL). With the new distribution agreement, Hughes offers turnkey LEO managed services supporting DoD acquisition agencies and Combatant Command (COCOM) requirements worldwide. The Hughes defense portfolio now includes single- and multi-transport network solutions integrating OneWeb’s proven low-latency connectivity with service level agreements and vendor options for ground equipment, installation and network management. Today’s agreement expands an established relationship between the two companies. Hughes, through its parent company EchoStar, is an investor in OneWeb. It is also an engineering partner to OneWeb, developing gateway electronics and the core module that will power every user terminal for the system. In September, Hughes and OneWeb announced distribution agreements in North America and India. In March, Hughes demonstrated a new electronically steerable, flat panel antenna technology for OneWeb services.

Intellian Invests in the UK with Launch of Innovation Hub and Office Based in London

April 4, 2022 – Intellian has announced the opening of its London office, marking a long-term commitment to and investment in Europe and the UK. The office will also be home to their ‘L-band Center of Excellence’, a best-in-class facility to enhance L-band product development and customer experience globally. A center of product innovation, the London base is focused on building the next-generation of L-band terminals for existing and new market segments in both maritime and enterprise. L-band is a satellite frequency providing extremely reliable and resilient communications across the world, often with global or extensive coverage. Intellian’s current range of L-band products includes the C700 designed for Iridium’s Certus network and the Intellian FB250 and Fleet One, for use on Inmarsat’s ELERA network. The center’s engineering excellence provides the timely opportunity to innovate new product lines for L-band, serving demand from the growing industrial Internet of Things (IIoT) sector. Alongside the digitalization of industry, this launch comes at a time when the UK space industry is also growing. The development of next-generation products at Intellian’s UK lab will serve the rising demand for satellite communications resulting from the growth of the industry.

KSAT to Provide Satellite Operations As-a-Service for ESA’s Arctic Weather Satellite

April 4, 2022 – KSAT is proud to announce that we are subcontracted in an industry consortium consisting of OHB Sweden and Thales Alenia Space for ESA’s Arctic Weather Satellite mission. The Consortium is led by OHB Sweden who will build the Arctic Weather Satellite (AWS) prototype-flight model and has contracted Thales Alenia Space to provide the Ground Segment. KSAT will serve as a sub-contractor to Thales, providing the Consortium with a single interface to handle all of the Consortiums routine operational needs. AWS is designed by ESA as a NewSpace mission, which enables an agile workflow throughout the Consortium, ensuring that objectives are achieved efficiently, at low cost and with high-quality. KSAT will provide the Consortium with a single point of contact for all activities related to mission operations through utilization of our unique experience and global network infrastructure.

BROADCAST

Intelsat Launches VideoNow

April 21, 2022 – Intelsat has launched an electronic program guide (EPG) to help viewers better navigate satellite TV programming while creating more value for broadcasters by increasing viewer-engagement opportunities. VideoNow by Intelsat, in conjunction with EasyBroadcast, is a service for viewers looking for free-to-air (FTA) content on direct-to-home (DTH) platforms. The first Intelsat

satellite to be included in the service is Galaxy 19 (G-19), a multicultural and ethnic-content neighborhood over North America. G-19 delivers prominent cultural and faith-based programming from the Middle East, Europe, Asia, and Africa to millions of viewers in the United States, Canada and Mexico. These viewers represent diverse groups looking for high-quality content from their home countries. VideoNow enables these viewers to easily find and discover new content specific to their interests. Visitors to VideoNow will experience an easy-to-navigate interface that highlights the list of channels available on G-19 as well as descriptions, logos, genres, languages, and countries of origin.

SES Sees Significant Growth for IP Switch Driven by Customer Demand for Live Sports and Events

April 11, 2022 – SES today announced the increasing market momentum for its innovative SES IP Switch solution driven by global consumer demand for viewing live sports and events, including football, American football, tennis, golf and judo. In Q4 2021, SES IP Switch saw an increase of 61% in sports events served and an increase of 96% in hours of content delivered compared to the same time the previous year as broadcasters, content owners, sports organisations, and media companies leverage SES IP Switch solution running on SES's terrestrial and satellite delivery network to deliver content. Since SES IP Switch launched in October 2020, SES has served an average of 420 events per month, delivering a total of 19,640 hours of content to customers by end of 2021. SES IP Switch is a hybrid cloud-based and on-prem service platform for the routing and delivery of low-latency, secure, and reliable video streams for broadcast contribution, production, and distribution to takers. SES IP Switch combines complementary technologies with self-booking options, a strong service layer, live monitoring, 24/7 NOC, and add-ons to enhance the management and distribution of live feeds around the globe. With it, customers gain full control over live event distribution via the internet from anywhere in the world.

NOVELSAT's New Multi-Purpose Video Gateway Selected by Operators and Broadcasters to Empower Content Connectivity

April 11, 2022 – NOVELSAT announced today that its new multi-purpose video gateway, NOVELSAT Xstream, has been selected and deployed by multiple satellite operators and media broadcasters to empower media delivery networks. Designed to increase operational efficiencies, NOVELSAT Xstream ideally addresses the needs of multi-connectivity satellite networks requiring any-to-any video gateway. NOVELSAT Xstream multi-purpose video gateway provides a highly integrated, optimized, and efficient multi-signal solution for media networks. Build on off-the-shelf servers with software-defined modular architecture and carrier-grade management system, NOVELSAT Xstream high-density architecture incorporates multiple satellite modulators and demodulators, supporting the most bandwidth-efficient waveform, NOVELSAT NS4TM, as well as standard DVB-S2 and DVB-S2X. In addition, NOVELSAT Xstream integrates multiple independent ASI and IP interfaces, supporting any-to-any failover matrix with stream and service redundancy. Presenting a powerful re/multiplexing system, NOVELSAT Xstream supports advanced PSI/SI and descriptor handling capabilities as well as program analysis, including program level bitrate measurements on both incoming and outgoing streams.

Satellite Monitor Annual Research Shows SES Increase Reach to 366 Million TV Homes Worldwide

April 5, 2022 – SES announced today the results of its annual Satellite Monitor market research, the industry's premier accounting of satellite's TV reach, which underscores SES's position as the leader in enabling content delivery via satellite directly and indirectly. SES now delivers almost 8,400 TV channels – including 3,130 in HD or UHD – to a total of 366 million TV homes worldwide, an increase of five million homes over the previous year. SES continues to outperform the industry with the highest number of TV homes reached and record-breaking number of channels delivered. The increase of TV households served by SES can be attributed to the growing reach in Africa (+9.1 million), APAC (+1 million) and Latin America (+1.7 million), where direct-to-home satellite platforms and IPTV continue to gain traction as leading TV reception methods. In SES's key European market via 19.2 degrees East, SES continues to reach 117 million homes, delivering content to half of all TV

homes in the market via satellite, cable or IPTV. SES's reach to TV homes in North America is down by 6 million as American audiences turn toward online streaming alternatives.

QVC UK Signs Multi-Year Contract Renewal with SES

April 4, 2022 – Viewers across the United Kingdom and the Republic of Ireland will continue to enjoy premium televised shopping as QVC UK and SES, the leading global content connectivity solutions provider, announced a five-year contract renewal to broadcast the company's QVC, QVC Beauty, QVC Extra and QVC Style channels over SES's 28.2 / 28.5 degrees East satellites. As part of the agreement, both the QVC and QVC Style channels will be upgraded to high definition (HD). Moreover, SES will continue to provide ground services to QVC UK, including managed encoding and uplinking services. QVC is a world leader in video commerce, which includes video-driven shopping across linear TV, vCommerce sites, digital streaming, and social platforms. Worldwide, QVC reaches more than 200 million homes via its 12 broadcast networks. Since the 1990s, QVC has been leveraging SES's satellites to broadcast their retail channels to audiences across the UK and Ireland, as well as to multiple markets across the globe.

LAUNCH / SPACE

Arabsat Invests into Cutting Edge Satellite Technology by Signing a Contract with Thales Alenia Space to Supply a Software-Defined Satellite

April 29, 2022 – ARABSAT, the leading regional satellite operator in the Middle East and Africa, and Thales Alenia Space, the joint venture between Thales (67%) and Leonardo (33%), have signed a contract to build ARABSAT-7A, a fully flexible Software-Defined Satellite (SDS) based on the Space Inspire (INstant SPace In-orbit REconfiguration) platform by Thales Alenia Space. With this contract, ARABSAT joins the exclusive club of geostationary satellite operators who have chosen this revolutionary technology to empower their business and transition from traditional bent-pipe GEO satellites to the highly agile and adaptable SDSs which are expected to change the face of the geostationary satcom industry. Indeed, the Space Inspire platform will enable seamless telecom mission and services reconfiguration of the ARABSAT-7A satellite, instant in-orbit adjustment to broadband connectivity demand, and superior video broadcasting performance while maximizing the effective use of satellite resources. ARABSAT 7A will join ARABSAT 6A and 5A at its data hotspot at 30.5E. It will replace the bulk of the existing C and Ku-band capacity on ARABSAT 5A as this satellite reaches end-of-life to ensure a seamless transition for customers and partners. It will also offer ample high-throughput Ku-band capacity to help ARABSAT expand its services into several verticals to enhance its portfolio of products and solutions over Middle East, Africa and beyond, to parts of Europe.

Next Arianespace Launch Scheduled for June 22 with Ariane 5

April 26, 2022 – This Ariane 5 launch from the Guiana Space Center, Europe's Spaceport, is scheduled for June 22. The satellites will be launched for two major actors and long-standing Arianespace customers: MEASAT, the leading Malaysian satellite operator, and NewSpace India Limited (NSIL), a Government of India company under Department of Space (DOS). MEASAT-3d, to be co-located with MEASAT-3a and MEASAT-3b at the 91.5°E orbital slot, is a multi-mission telecommunications satellite built by Airbus Defence and Space. This new satellite will significantly enhance broadband speeds of up to 100 Mbps per user in areas with limited or no terrestrial network throughout Malaysia while continuing to provide redundancy and additional capacity for video distribution in HD, 4K, and ultimately 8K in the Asia-Pacific region. GSAT-24, a Ku-band 4-ton class communications satellite built by the Indian Space Research Organization (ISRO) for NewSpace India Limited (NSIL) that will provide high-quality television, telecommunications and broadcasting services over India. GSAT-24 satellite is the 1st Demand Driven communication satellite mission undertaken by NSIL.

OneWeb Agrees Satellite Launch Programme with New Space India

April 20, 2022 – OneWeb announced that the company and New Space India Limited, the commercial arm of the Indian Space Research Organisation, have entered into an agreement that will help ensure OneWeb completes its satellite launch programme. The first launch with New Space India is anticipated in 2022 from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota. The launches will add to OneWeb's total in-orbit constellation of 428 satellites, 66 per cent of the planned total fleet, to build a global network that will deliver high-speed, low-latency connectivity. This launch contract follows a separate agreement between OneWeb and SpaceX to enable the company to resume satellite launches, announced in March 2022. OneWeb has already activated service with its network at the 50th parallel and above, as demand for the company's broadband connectivity services continues to grow from multiple sectors and markets.

NASA, Industry to Collaborate on Space Communications by 2025

April 20, 2022 – NASA selected six American satellite communications (SATCOM) providers on April 20 to begin developing and demonstrating near-Earth space communication services that may support future agency missions. For more than a year, the agency has been evaluating the feasibility of employing commercial SATCOM networks for near-Earth operations as it works to decommission its near-Earth satellite fleet. This approach would allow NASA to focus more time and resources on its deep space exploration and science missions. The combined value of the agency's Communications Services Project (CSP) funded agreements is \$278.5 million. NASA expects each company to match or exceed agency contributions during the five-year development and demonstration period, totaling more than \$1.5 billion of cost-share investment. Each company has proposed a technical approach to lower costs, increase flexibility, and improve performance for a broad range of missions. The agreements create opportunities to develop innovative solutions that could potentially meet NASA's future mission requirements while supporting each company's business model, future customers, and a growing domestic commercial SATCOM market.

NASA Selects Satellite-based Space Launch Tracking and Command Systems from Inmarsat

April 20, 2022 – The National Aeronautics and Space Administration (NASA) has selected Inmarsat Government, Inc. as a delivery partner for its Communications Services Project (CSP). Under the Funded Space Act Agreement (FSAA), NASA will partner with Inmarsat Government to develop and demonstrate the feasibility of providing commercial satellite communications (satcom) capabilities as a service for future spacecraft users in near-Earth orbit. Inmarsat Government will demonstrate with NASA a variety of space-based applications, enabled by Inmarsat's ELERA worldwide L-band network, which will include capabilities for Launch Support, Launch and Early Operations Phase (LEOP), Low Data Rate Routine Missions and Contingency Mission Operations communications. This builds on the organization's world-renowned satellite network and leading capabilities providing satcom as a service and more to its customers in the United States.

Rocket Lab Secures Multi-Launch Contract with HawkEye 360

April 19, 2022 – Rocket Lab announced it has been selected by Virginia-based HawkEye 360 to launch three Electron missions for the radio frequency geospatial analytics provider. The first of the three missions is scheduled to be Rocket Lab's inaugural Electron mission from Launch Complex 2 on Wallops Island, Virginia, ushering in an era of Rocket Lab launches from U.S. soil from no earlier than December 2022. The multi-launch contract with HawkEye 360 will see Rocket Lab deliver 15 satellites (five clusters) to low Earth orbit across three Electron missions anticipated between late 2022 and 2024. Rocket Lab will first deploy three HawkEye 360 satellites as part of a rideshare mission, followed by six satellites each on two dedicated Electron launches. The first HawkEye 360 mission is scheduled to launch from Rocket Lab Launch Complex 2 at Virginia Space's Mid-Atlantic Regional Spaceport within NASA's Wallops Flight Facility – a dedicated pad for Electron launches developed to support missions from U.S. soil for government and commercial customers.

Axiom Space and Mitsui & Co., Ltd. Announce Japan-based Joint Venture

April 11, 2022 – Building on the strategic partnership that Axiom Space and Mitsui & Co., Ltd. signed in September, and following Mitsui's investment in Axiom Space, the partners have initiated the formation of a joint venture in Japan to accelerate on-orbit services to commercial and government customers. This unique partnership builds on both Axiom's in-space capabilities and Mitsui's global industrial reach. Together, Axiom Space and Mitsui & Co., Ltd. are opening the doors for non-traditional users to leverage the advantages of space, including microgravity and the unique vantage point of Low Earth Orbit. These services broaden international human spaceflight, research, manufacturing, and other opportunities at the International Space Station, and enhance a growing set of opportunities at Axiom Station, now under construction. Axiom and Mitsui have been meeting with and onboarding commercial customers in consumer electronics, entertainment, agri-tech, chem-tech, marketing/advertising and other sectors.

Thales Alenia Space and AIKO Team up to Develop Advanced Software for Space Applications

April 8, 2022 – Thales Alenia Space, the joint venture between Thales (67%) and Leonardo (33%), and the start-up AIKO S.r.l. signed a Memorandum of Understanding (MoU) to jointly develop advanced software for space systems. Their partnership will primarily study the use of artificial intelligence (AI) and machine learning technologies to enhance the autonomous operation of satellites and space infrastructures, working in conjunction with the companies' research and engineering teams. With the data generated by space systems increasing exponentially and space missions becoming more and more complex, advanced software solutions that can maximize the chances of mission success have become fundamental. AI technologies can address these needs, providing scalability and robustness in the harsh space environment.

Boeing and ExoAnalytic Team to Offer Australian-operated Space Domain Awareness System

April 8, 2022 – Boeing Australia and ExoAnalytic have joined forces to offer the Australian Government a fully operational Space Domain Awareness capability which is ready to deploy immediately, and to be operated by a local Australian team. The ExoAnalytic-Boeing solution for JP9360 Tranche 2 will provide RAAF operators with the ability to simultaneously and exclusively task multiple ground-based telescopes across ExoAnalytic's global sensor network of 350 telescopes. These telescopes will be controlled and operated from an Australian Command Centre delivering highly flexible Space Domain Awareness to support RAAF space command operations. ExoAnalytic's telescope network is the world's largest Space Domain Awareness sensor network which monitors, understands and predicts the position and behaviors of man-made space objects in orbit around the Earth.

Arianespace Wins New Contract to Launch Sentinel-1C Observation Satellite on Board Vega-C

April 7, 2022 – Arianespace has been awarded a launch contract by the European Space Agency (ESA) on behalf of the European Commission, to launch Sentinel-1C in the first half of 2023 on Vega-C. The satellite, weighing around 2.3 metric tons, will be placed in a Sun-synchronous orbit with an altitude around 690 km. Before Sentinel-1C satellite, both Sentinel-1A and -1B were previously launched with Arianespace in 2014 and 2016. Sentinel-1C will round out the initial capacity offered by the two preceding satellites to offer a comprehensive response to the needs for environmental and security monitoring via spaceborne radar systems. Sentinel satellites are part of the Copernicus program designed to give Europe continuous, independent and reliable access to Earth observation data. Copernicus, one of the flagships of the European Union Space Programme, presently includes eight Sentinel satellites: Sentinel-1A and -1B radar imaging satellites, Sentinel-2A and -2B optical imaging satellites, Sentinel-3A and -3B for ocean and atmosphere monitoring; Sentinel-5P enables monitoring the quality of air, while Sentinel-6 is monitoring sea levels. Other Sentinels are in preparation, such as Sentinel-4, Sentinel-5 and the CO2 monitoring mission, to name a few.

Australian SMEs Team up to Deliver High-resolution Hyperspectral Earth Observation Microsatellites

April 6, 2022 – LatConnect 60 (LC60), an Earth observation and data fusion company based in Perth, Australia, has signed an agreement to work with Gilmour Space Technologies in Queensland to build and launch the first microsatellite in a planned high-resolution hyperspectral imaging constellation. The smart satellites will be placed in 30-degree inclined orbits for frequent revisit data capture over the Earth's equatorial and mid-latitude regions. Under the agreement, Gilmour Space will develop the first 100-kilogram HyperSight 60 satellite on its G-class satellite bus (G-Sat), which will be launched on Gilmour's Eris rocket from the Bowen Orbital Spaceport in Queensland, ideally located to place satellites into equatorial and mid inclined orbits. The microsatellite and subsequent constellation will be owned and operated by LC60. The first HyperSight 60 microsatellite is planned for launch in Q4 2024. Once the entire eight-satellite constellation is operational, an hourly revisit rate will be possible at mid-latitude locations between 30 degrees north and south in Australia, Asia, South America, and Africa.

Arianespace Signs Contract with Amazon for 18 Ariane 6 Launches to Deploy Project Kuiper Constellation

April 5, 2022 – Arianespace and Amazon announced a launch service contract during the International Space Symposium in Colorado Springs, USA, on April 5. Under the terms of the contract, Arianespace will perform 18 Ariane 6 launches for Amazon's Project Kuiper over a period of three years from Europe's Spaceport in French Guiana. Among the 18 launches planned for the deployment of the Project Kuiper, 16 will be carried out with an advanced version of the Ariane 64. For this contract, Arianespace will rely on the Ariane 64 vehicle, the highest performing European launcher which is perfectly tailored for the demanding work of deploying constellations. Ariane 6 will enter service and replace the Ariane 5 as Arianespace's heavy lift workhorse. The versatility, high capability, and expected reliability of the Ariane 6 played a key role in securing this agreement with Amazon for the Project Kuiper. Ariane 6 has been designed from the outset to be scalable and able to integrate, during its life and on a regular basis, new technologies. Out of the 18 A64 launches, 16 A64 will benefit from an increase in the power of the P120C solid boosters (called "P120C+" version). Ariane 6's incremental development is intended to regularly improve the performance of the launch solutions offered by Arianespace and always better fulfil the needs of both institutional and commercial customers. These developments are funded and managed by the European Space Agency (ESA) and implemented by Ariane 6's launcher system prime contractor ArianeGroup. Amazon's Project Kuiper aims to connect the unconnected, providing high-speed, low-latency broadband to unserved and underserved communities across the globe at affordable rates. Homes, schools, hospitals, businesses, governments, and institutions that lack access to connectivity could soon have it through Project Kuiper.

Amazon Selects Blue Origin's New Glenn for up to 27 Project Kuiper Constellation Launches

April 5, 2022 – Blue Origin announced New Glenn has been selected for 12 launches, with options for up to 15 additional launches to deploy Amazon's Project Kuiper satellite constellation. Project Kuiper's constellation of 3,236 advanced satellites aims to deliver high-speed, low-latency broadband service globally. The launches are manifested for a five-year period from Launch Complex 36 (LC-36) at Cape Canaveral Space Force Station, which Blue Origin has rebuilt from the ground up. In addition to Project Kuiper, New Glenn is also manifested to carry payloads for three of the six largest satellite operators in the world: Eutelsat, JSAT, and Telesat. NASA previously selected New Glenn for its launch services catalog, approving the rocket to compete for NASA's advanced science and exploration missions.

Omnispace and Thales Alenia Space Announce Successful Launch of First Satellite Mission

April 4, 2022 – Omnispace and Thales Alenia Space announced that Omnispace Spark-1™ was successfully delivered into orbit aboard the SpaceX Transporter-4. The Omnispace Spark™ program

represents phase one in the development and delivery of the world's first standards based global hybrid network. Thales Alenia Space designed and built the satellite, part of the initial two satellites Omnispace Spark program. The new-generation NGSO satellite in low-earth orbit (LEO) will operate in the 2 GHz S-band. Omnispace Spark will support the mobile industry 3GPP standard in band n2561, making connectivity possible direct to compatible devices. This program will serve to advance the development and implementation of Omnispace's global hybrid non-terrestrial (NTN) network.

BlackSky Expands Constellation to 14 Satellites and Increases Capacity over Critical Locations

April 4, 2022 – BlackSky's newest satellites successfully began revenue-generating commercial operations for customers, taking high-resolution images and creating analytics within a company record of 12 hours after launch. The company expanded its constellation from 12 to 14 high-resolution satellites following the successful RocketLab launch "Without Mission a Beat" on April 2. This mission marks the fourth BlackSky satellite launch mission in the last four months. The company's expanded constellation enhances its ability to monitor and analyze the most strategic activities, locations, and economic assets in the world for its customers around the globe. The expansion of its constellation improves BlackSky's daily dawn-to-dusk site monitoring and increases the frequency at which the company can image and analyze a particular site with an average daily revisit rate of eight to ten times a day in most locations in the world.

Unseenlabs Expands RF Satellite Constellation with Launch of Bro-7

April 4, 2022 – Unseenlabs, the European Leader in Space-Based Radio Frequency (RF), successfully launched its sixth satellite dedicated to the geolocation of vessels at sea. Bro-7, unseenlabs' sixth satellite, was launched as part of SpaceX's transporter-4 mission with exolaunch from Cape Canaveral, Florida. Communication with Bro-7 was established a few hours after the launch. In total, Unseenlabs has deployed six satellites since 2019, and will be launching its seventh one in the coming weeks. The Unseenlabs constellation is designed to provide clients with reliable and frequent RF data for a quick detection and a better monitoring of activities at sea, regardless of time of day and weather conditions. This capability is ideally suited for applications such as national security, defense, insurance and the protection of marine areas.

Thales Alenia Space Demonstrate On-orbit Compute Technologies Onboard the ISS

April 4, 2022 – Thales Alenia Space announced a strategic collaboration with Microsoft to explore the enablement of new capabilities in the Space Edge Computing (SEC), Artificial Intelligence Space Observation tools (DeeperVision) and Digital Ground Segment. In particular, Thales Alenia Space plans to deliver advanced connectivity, analytics and compute in space with Space Edge Computing (SEC) with Microsoft. To this end, the companies will demonstrate and validate on-orbit computing technologies and potentialities onboard the International Space Station (ISS) in 2023. Thales Alenia Space will deploy a powerful on-orbit computer, an on-orbit application framework, and high-performance Earth Observation sensors to unlock new on-orbit climate data processing applications for the benefits of our planet sustainability. Thales Alenia Space will work with Microsoft Research in remote sensing, computer vision and climate science to demonstrate the potential of next-generation on-orbit compute for Earth observation. This space edge computing capacity will allow gathering faster, to-the-point Earth observation insights immediately applicable for our planet's surveillance, understanding and protection.

EXECUTIVE MOVES

Victor Au Joins AsiaSat's Leadership Team as General Counsel

April 22, 2022 – Asia Satellite Telecommunications Company Limited (AsiaSat), Asia's premier satellite solutions provider, announced the appointment of Victor Au as General Counsel. Victor joins the company with more than two decades of experience working across international and local law firms and in-house legal departments in areas of corporate, commercial and intellectual property. He

will be responsible for overseeing legal affairs and regulatory compliance of the AsiaSat Group. Prior to joining AsiaSat, Victor was the Asia Pacific General Counsel of Vertiv Holdings Co., a US-based multinational corporation, with overall responsibilities of Asia-Pacific legal, intellectual property and compliance functions. Prior to Vertiv, he had also served as the in-house counsel of IDT International Limited, a Hong Kong listed company, as well as a private practicing solicitor at Baker & McKenzie.

APT Satellite Appoints Wang Hongbin as New Executive Director and President

April 19, 2022 – APT Satellite has appointed Wang Hongbin to be the successor of Cheng Guangren as its new Executive Director and President. Wang Hongbin has recently worked as the Deputy General Manager of China Satellite Communications Company Limited. He has also served as Chairman and non-executive director of the board of directors of China Satellite Communications (Hong Kong), a wholly-owned subsidiary of China Satellite Communications Company Limited.

Comtech Names Robert Samuels as VP of Investor Relations and Corporate Communications

April 11, 2022 – Comtech Telecommunications has named investment and financial analysis expert Robert Samuels as its Vice President of Investor Relations and Corporate Communications. This newly created position will significantly enhance Comtech’s commitment to shareholder engagement and transparency. Samuels brings over 20 years of Wall Street experience from working at leading financial institutions, including UBS Global Wealth Management, where he served in the Chief Investment Office, producing company-specific and thematic research, as well as marketing collateral for the firm’s financial advisors and private clients. While at UBS, Samuels drove investment performance of tens of billions worth of assets, outperforming the sector benchmark and S&P 500 for five consecutive years.

Rocket Lab Appoints Arjun Kampani As General Counsel

April 7, 2022 – Rocket Lab USA, Inc. announced today that Arjun Kampani will join the Company as Senior Vice President, General Counsel and Corporate Secretary, effective April 11, 2022. Kampani will lead Rocket Lab’s legal and regulatory affairs, guiding the Company on all legal, governance, ethics, and compliance matters. Mr Kampani brings to Rocket Lab over two decades of experience advising and leading public and private businesses, including more than 18 years of experience in the aerospace industry. Mr Kampani joins Rocket Lab from his most recent role at Aerojet Rocketdyne, where he served as Senior Vice President, General Counsel and Secretary managing and advising on a broad range of issues including all aspects of corporate law, corporate governance, securities law, litigation, mergers and acquisitions, international transactions, and legal, ethics, and compliance issues.

REPORTS

NSR: Cloud Service Delivery via Satellite to Generate \$32 Billion by 2031

April 27, 2022 – NSR’s newly released *Cloud Computing via Satellite, 3rd Edition* sees Cloud Service Delivery via Satellite positioned to generate \$32 Billion, with 240+ Exabytes of Traffic, by 2031. The impending wave of LEO, MEO, and GEO-HTS satcom and data services is set to boost long-term cloud adoption, significantly enhancing market engagement opportunities. Going forward, Cloud will play a key role in bridging gaps between traditional upstream aerospace/satellite players focused on manufacturing spacecraft and launching into orbit, and downstream end users and middle layer organizations, where demand resides.

Inmarsat Research Reveals Cost Efficiencies and Sustainability Drive Adoption of IoT Technologies

April 21, 2022 – Greater cost efficiencies and improving environmental sustainability are the top drivers behind IoT adoption among today’s businesses, recent research by Inmarsat has revealed. More than half (54 per cent) of respondents stated that cost efficiency is the top driver behind their adoption of IoT technologies, followed by improved environmental sustainability and greater supply

chain insight (both 48 per cent). Despite these benefits, many organisations continue to face several key barriers when deploying IoT – with a lack of in-house skills and a lack of reliable connectivity in the deployment phase (37 per cent and 24 per cent, respectively) chief among them.

Euroconsult Releases Prospects for Maritime Satellite Communications Report

April 20, 2022 – Leading space consulting and market intelligence firm Euroconsult has released its annual “*Prospects for Maritime Satellite Communications*” report, which shows that despite the prolonged COVID-19 pandemic and its associated impacts, 2021 was still a positive year for the global maritime satellite communication market. However, some segments, according to the report, were more resilient to the pandemic shocks than others. The merchant sector, which represents the largest connectivity market with more than 240,000 terminals at the end of last year, helped keep afloat the Maritime VSAT service revenues, by generating almost half of the \$655 million earned last year.

WTA Report Explores How Technology and Standards Integration Will Trigger Major Growth in Satellite Backhaul for Teleport Operators

April 13, 2022 – Satellite and cellular networking technologies have evolved in parallel over decades to create conditions for significant growth in the satellite backhaul business. In this report, based on input from 10 subject-matter experts representing satellite service and technology providers, WTA examines how satellite and cellular have converged to create this opportunity, and characterize the noteworthy trends, markets and challenges ahead.

NSR Satellite Backhaul Report Projects Market Entering Execution Phase with 12.9% YoY Revenue Growth

April 12, 2022 - NSR’s newly released *Wireless Backhaul via Satellite, 16th Edition* finds the Wireless Backhaul via Satellite market entering a key period of execution with 12.9% YoY revenue growth ahead. Only just scratching the surface of opportunity, the segment targets a total unserved addressable market of 28.4 Tbps compared with today’s total capacity demand of approx. 600 Gbps. Bridging the gap between current demand and this massive addressable market is essential to business plans across LEO, MEO and GEO satellites and in all regions.

NSR Releases Space Tourism & Travel Markets, 3rd Edition Report

April 7, 2022 – The industry-leading assessment of these rapidly developing global markets, NSR’s *Space Tourism & Travel Markets, 3rd Edition (STT3)* report sees Orbital Travel, the most stable and lucrative segment through 2031 set to capture 66% of total revenue opportunity. High ticket prices, coupled with very strong demand, results in a fast-growing market, even amongst delays. As Space Tourism interest mounts, multi-vertical collaborations build the foundations for emerging markets, diversifying revenue opportunity towards future gains. NSR’s STT3 offers readers comprehensive 10-year forecasting for each markets’ growth, timeline and future planning in every region, vehicle, and service type, keeping them ahead of the curve.

Inmarsat Releases New Decarbonisation Report

April 4, 2022 – Inmarsat, the world leader in global, mobile satellite communications, has published a new decarbonisation report exploring the impact digital technology can make on shipping’s greenhouse gas (GHG) emissions. Compiled by maritime innovation consultancy Thetius, and sponsored by the Inmarsat Research Programme, *The Optimal Route – The Why and How of Digital Decarbonisation in Shipping* provides evidence that digital optimisation offers a key strategy for owners set on meeting International Maritime Organization (IMO) CO2 targets for 2050.

UPCOMING EVENTS

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

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/>

Satellite Industry Forum 2022, May 31, Singapore, https://avia.org/all_events/satellite-industry-forum-31-may-2022/



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

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

EDITORIALS AND INQUIRIES

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.