APSCC Monthly e-Newsletter
July 2023

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

News in this issue has been collected from June 1 to June 30.

INSIDE APSCC

APSCC 2023 Satellite Conference & Exhibition (APSCC 2023), October 10-12, Sheraton Imperial Kuala Lumpur, Malaysia

APSCC Satellite Conference and Exhibition, the largest three-day annual gathering of the Asia Pacific satellite and space community, is your defining platform that brings the industry together for market insight, striking partnerships and concluding business deals. This year the APSCC 2023 Satellite Conference and Exhibition will be heading to KL, Malaysia - Reconnect, communicate, and collaborate on the industry's challenges and opportunities that lie ahead!

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2023 APSCC Awards: Call for Nominations

APSCC is now accepting nominations for the 2023 APSCC Awards, which will be presented at the APSCC 2023 Satellite Conference & Exhibition at the Sheraton Imperial Kuala Lumpur Hotel, Malaysia on October 10 - 12. The APSCC Awards honor those who have made invaluable contributions to the satellite and space community. See https://apsccsat.com/awards/ for more details on the 2023 APSCC Awards.

SATELLITE BUSINESS

Momentum to Partner with Eutelsat and OneWeb to Provide Connectivity Solutions for the Oil & Gas Industry

June 29, 2023 – Momentum, a leading provider of enterprise connectivity solutions in remote areas throughout North and South America, today announced an enhanced agreement that will enable Momentum to use OneWeb's high-speed, low-latency satellite fleet, on top of Eutelsat's ADVANCE global connectivity solution. This partnership will help tobring high-performance communications services to Oil & Gas projects and facilities across Canada and the U.S. Momentum is already a customer of Eutelsat, who, consequently, will be distributing OneWeb's LEO satellite communications services along with its existing connectivity products in a number of key markets. Integrating satellites services from Eutelsat and OneWeb, Momentum will deliver a full suite of true enterprise business network connectivity solutions to its clients, providing capacity, high-speed, low-latency services with quick setup and development, support structures and services in place on the backend. By gaining access to stable and fast download and upload speeds, along with low latency, remote Oil & Gas clients can trust that critical business data is being safely and reliably transferred to and from their head offices.

U.S. DoD Awards Global X-Band Blanket Purchase Agreement to SES Space & Defense

June 28, 2023 – DRS Global Enterprise Solutions (GES), acquired and now part of SES's wholly-owned

subsidiary SES Space & Defense, has been awarded a five-year X-Band Blanket Purchase Agreement (BPA) with an estimated value of USD 134 million in support of the U.S. Department of Defense (DoD). The single award BPA was awarded through Defense Information Systems Agency's (DISA) Defense Information Technology Contracting Organization (DITCO) by the US Space Force. To deliver a near-global solution, SES Space & Defense has partnered with several industry-leading players, including integrators, SATCOM and teleport operators. Together, the contracted satellite operators will deliver Global X-Band satellite capacity, teleport and network services over a highly secure global terrestrial network, and other ancillary services to meet enduring and emerging DoD requirements. To provide secure satellite communications service, SES Space & Defense will leverage the multi-mission GovSat-1 satellite, which features high-power X-band and Military Ka-band beams. GovSat-1 is a satellite operated by GovSat and is entirely dedicated to government and military missions.

KSATlite Network Expansion, Adding New Ground Station in South Korea

June 28, 2023 – Equipped with three standardized KSATlite ground systems, the newly established ground station in South Korea solidifies KSAT's commitment to expanding its presence in the Asia-Pacific region. The new ground station represents an expansion of coverage and increased capacity on the KSATlite network in line with KSAT's ambition to provide reliable and efficient satellite communication solutions to customers worldwide. The strategic location of the South Korean ground station enhances KSATlite's capabilities to support a wide range of satellite missions with real time requirements, including Earth observation and telecommunication. With its robust tracking and control systems and standardized solutions, the network offers the ideal solution for Smallsat operators to maximize their mission's potential, capturing and transmitting data with seamless efficiency. KSAT´s expansion into South Korea with the KSATlite antennas exemplifies the company's dedication to meeting the growing demand of the global satellite industry. By establishing a presence in key locations worldwide, the KSATlite network provides customers with enhanced flexibility, reliability, and coverage optimized for constellation operators. This expansion of the KSAT lite network is a result of the close and good collaboration with Contec as site owner in Jeju and local partner in South Korea.

Singapore Airlines to Offer Free High-Speed In-Flight Wi-Fi with Panasonic Avionics

June 28, 2023 – Panasonic Avionics Corporation (Panasonic Avionics), the world's leading supplier of in-flight entertainment and communication systems (IFEC), has today announced that it will deliver unlimited complimentary Wi-Fi, powered to Singapore Airlines' (SIA) customers, beginning 1st July 2023. Panasonic Avionics' in-flight connectivity services are powered by its global network of high-speed, high-bandwidth satellites. SIA's in-flight connectivity experience will deliver a host of next-generation connectivity benefits. The announcement between Singapore Airlines and Panasonic Avionics comes at a strategic time as demand in both Wi-Fi and roaming services recovers from the global COVID-19 pandemic. Singapore Airlines has been recognized as a driving force in the recovery of air travel in Southeast Asian markets. This rapid air traffic recovery has been accompanied by an increasing demand for in-flight connectivity services in both roaming and Wi-Fi services, driving compelling retail propositions.

Intelsat and Lintasarta Expand Coverage in Indonesia

June 27, 2023 – Intelsat and Lintasarta, an Indonesian information and communication technology company via its mobile network operator subsidiary Indosat Ooredoo Hutchison (IOH), has rolled out a network to cover remote areas in Indonesia. Nearly 400 sites, across Central and Western Indonesia including Sumatra, Kalimantan, Sulawesi, Nusa Tenggara have received broadband connectivity with Intelsat's help using cellular backhaul. In doing so, this is the first time a mobile operator is covering these areas. "Indonesia's unique array of topography makes satellite the best option for service. Pairing Intelsat satellites in a hybrid network solution proves to be the best real-world solution to provide countrywide coverage for different population densities," said Gaurav Kharod, regional vice president of Intelsat, Asia Pacific. "Intelsat understands Lintasarta's specific

requirements and can craft a niche advantage for them to maximize existing hardware platforms to effectively provide the connectivity needed." "Intelsat has been and continues to be our trusted partner. The partnership has always allowed us to quickly deploy and expand network coverage wherever it's needed in Indonesia. Tens of thousands of households will receive first-ever connectivity and benefit from digital connectivity," said Zulfi Hadi, Marketing & Solution director, Lintasarta.

NorthStar and SES to Advance Commercial Space-Based SSA Services by Providing RSO Tracking from Space

June 26, 2023 – NorthStar Earth & Space Inc. (NorthStar), the first commercial service provider to monitor space from space, and SES have signed an agreement to collaborate on the implementation of next-generation commercial Space Situational Awareness (SSA) services. The aim is to significantly increase the precision of resident space object (RSO) tracking to enhance the safety and sustainability of operations in space, both companies announced today. This agreement follows NorthStar and SES's announcement last year to collaborate and contribute to the realization of a more sustainable space environment, and reinforces their shared commitment to leading the way towards responsible practices in space. By leveraging their complementary expertise, advanced technologies, and comprehensive satellite networks the companies will collaborate to optimize cutting-edge SSA services of unique dimension, precision and reliability. This commercial service will enhance traditional fleet management capabilities by reducing collision risk and enabling optimum safety and efficiency during operations. The collaboration between NorthStar and SES exemplifies the importance of collective efforts that deliver services that enable safe operations to foster a more sustainable space economy, addressing the urgent challenges posed by increasing space debris and orbital congestion.

Atlantic Offshore Selects Fleet LTE for its North Sea Fleet

June 21, 2023 – Inmarsat Maritime, a Viasat business, has reached an agreement with long-standing customer Atlantic Offshore to implement Fleet LTE across the Norwegian offshore service provider's multifunctional fleet. The commitment will ensure vessels maintain continuous access to high-speed, low-latency connectivity in the North Sea during their offshore supply, seismic support and oil recovery duties. As an all-in-one solution, Fleet LTE will allow the vessels to connect to 4G offshore fibre networks when in range and Inmarsat's market-leading Ka-band service, Fleet Xpress, when sailing beyond LTE coverage zones. Switchover between the services is a seamless, fully automated process, ensuring no loss of connectivity when transiting from one area to another. Fleet LTE also includes access to FleetBroadband's resilient L-band coverage for unlimited back-up with 99.9% network availability. On top of meeting Atlantic's internal business requirements, Fleet LTE supports a happy and motivated workforce by allowing seafarers to maintain contact with friends and family and access online entertainment in their spare time on board. It also offers a separate bandwidth pipe for charterers, whose allowance Atlantic can upgrade and downgrade in line with demand.

Mynaric Selected by Raytheon Technologies to Supply Optical Communications Terminals for SDA Tranche 1 Tracking Layer Program

June 21, 2023 – Mynaric, a leading provider of industrialized, cost-effective and scalable laser communications products, announced that it has been selected by Raytheon Technologies to supply optical communications terminals for the Space Development Agency (SDA) Tranche 1 Tracking Layer program. Raytheon Technologies was awarded the seven-vehicle mission satellite constellation in February 2023. Each satellite will feature three optical communications terminals, and a Ka-band, multi-beam payload for communications. Mynaric will supply 21 CONDOR Mk3 terminals to Raytheon for the program with the product deliveries expected in 2024.

Lynk and Palau National Communications Corporation (PNCC) Begin Initial Sat2Phone Service to PNCC Mobile Subscribers

June 21, 2023 – Lynk Global, Inc. (Lynk), the world's leading sat2phone telecoms provider, and PNCC, Palau's largest Mobile Network Operator, jointly announced today the start of initial service to provide satellite-direct-to-mobile phone services to the island nation using Lynk's "cell-towers-in-space". PNCC is the first MNO in the world to launch Lynk's sat2phone technology as a service for their subscribers. Established in 1982, PNCC has been the backbone of telecommunications in Palau for over 40 years, undertaking the challenging and essential mission of developing a national communications system for the island nation. From the humble beginning of serving 200 customers in the population center of Koror, PNCC has grown into a full-service telecommunications operator connecting customers across the archipelago. Lynk holds 30+ commercial agreements with MNOs worldwide, and has conducted successful demonstrations across 40+ countries on seven continents. Lynk anticipates starting commercial service with numerous other MNOs globally over the course of 2023.

Artel Partners with Rivada Space Networks for Mission Critical Connectivity

June 21, 2023 – Rivada Space Networks and Artel LLC have announced the signing of a Memorandum of Understanding (MoU) and Master Services Agreement (MSA) to bring a new level of high security and low latency satellite communications to the government market through low earth orbit (LEO) constellations. Artel LLC provides secure network communication services to U.S. government agencies. Based in the U.S, Artel is a carrier-agnostic network integrator – allowing it to develop customized solutions for its customers, providing cost-effective, on-time delivery of global terrestrial and satellite network communication services, cyber security, risk management, and information technology solutions.

AST SpaceMobile Confirms 4G Capabilities to Everyday Smartphones Directly From Space

June 21, 2023 – AST SpaceMobile, the company building the first and only space-based cellular broadband network accessible directly by standard mobile phones, announced it has achieved repeated successful download speeds above 10 Mbps during testing of BlueWalker 3. Space-based cellular communications at 4G speeds using unmodified smartphones is another world first telecommunications achievement by AST SpaceMobile. Engineers conducted download speed tests in Hawaii during June using multiple everyday, off-the-shelf smartphones. The 4G LTE download speed testing, which used AT&T spectrum and Nokia RAN technology, reached initial speeds up to 10.3 Mbps, with further testing of voice calls to AT&T employees. Evaluation of BlueWalker 3's capabilities continues, with enablement of 5G cellular broadband as the next major test activity.

Kacific and Solomon Telekom Company Limited (STCL) Join Forces in Partnership to Restore Internet Services after Anchor Incident

June 20, 2023 – Kacific Broadband Satellites Group (Kacific) reinforced its established partnership with Solomon Telekom Company Limited (STCL: Our Telekom) by swiftly restoring connectivity to STCL's affected customers after damage to the nation's domestic undersea submarine cable links operated by the Solomon Islands Submarine Cable Company (SISCC). Solomon Islands' internet submarine cable was damaged on 10 May when a foreign-flagged vessel dropped its anchor on it, impacting telecommunications services in the provincial centres of Auki on Malaita, Noro in Western Province, and Taro in Choiseul Province. Kacific, the first provider to respond, offered support within two days after the incident and delivered additional temporary satellite capacity to enable broadband, mobile and landline services for a significant portion of the country. Kacific swiftly set up the necessary infrastructure and provided the island nation with a digital lifeline through a short-term satellite connectivity solution of 600Mbps on its Kacific1 satellite. Kacific's solution demonstrated how satellite communication offers a reliable backup alternative when fibre optic cables are damaged or unavailable, ensuring continuity of service accessibility, speed, and affordability.

Comtech Joins the AWS Partner Network to Deliver Interoperable Cloud Solutions
June 20, 2023 – Comtech announced that it has joined the Amazon Web Services (AWS) Partner Network (APN) and completed the AWS Technical Review to validate a Comtech solution. The APN is a global community of AWS Partners that leverage programs, expertise, and resources to build, market, and sell customer offerings in diverse global markets. As an APN member, Comtech will provide customers access to the company's portfolio of technologies on AWS, new solutions that deliver meaningful insights and innovative services when and where they matter most. Validated by the AWS Foundational Technical Review (FTR), Comtech's solution provides commercial and government customers with a comprehensive understanding of events unfolding in real-time, in both terrestrial and non-terrestrial environments, through precision location-based services, Internet of Things (IoT) device technologies, and insightful data analytics capabilities delivered on a single intuitive application. Through reinforcing Comtech's solution around a defined set of best practices and requirements for security, reliability and operational excellence, the company can now deliver a secure and scalable solution on AWS's global infrastructure.

IEC Telecom Unveils a New Maritime LEO-based Solution in the Philippines
June 19, 2023 – With high-speed, low latency, reliable and cost-effective connectivity, low earth orbit satellites are transforming maritime communications and the Asia Pacific region is set to benefit, says satcom specialist IEC Telecom. IEC Telecom will showcase the benefits of LEO connectivity to the Philippine maritime sector when it takes part in this week's PhilMarine show. PhilMarine gathers key national stakeholders and international specialists to exchange ideas, develop partnerships and draw a roadmap towards achieving the nation's 2028 transport vision, the Maritime Industry Development Plan (MIDP).

EM Solutions Signs Acquisition Contract to Deliver Naval SATCOM Solutions
June 16, 2023 – The Commonwealth's Capability Acquisition and Sustainment Group (CASG) has selected EM Solutions to upgrade the Royal Australian Navy's SATCOM systems across its existing fleet of vessels. This is by far the largest contract ever signed by EM Solutions and demonstrates how support for the Sovereign Defence Industry, particularly Small to Medium Enterprises (SMEs), can deliver world leading capability and enhance sovereign capability. EM Solutions enters this contract as the Prime Contractor which will initially result in around 30 new positions, some of which have already been filled, at the company's head office in Brisbane. EM Solutions is also expanding its local industry supply chain to support, develop and deliver programmatic, integrated logistics services (ILS) and training. The company will continue to work with existing partners and develop new sovereign component and subsystem suppliers for its Naval maritime SATCOM systems.

Telstra and OneWeb Seal Deal on Delivering New Satellite Solutions
June 15, 2023 – Telstra and OneWeb are set to deliver one of the world's largest rollouts of OneWeb low Earth Orbit (LEO) backhaul for a commercial mobile network. After testing in Australia, Telstra and OneWeb have agreed commercial terms and will begin moving hundreds of existing remote mobile base stations currently using satellite backhaul to OneWeb's LEO solution from later this year. Meanwhile, Telstra will adopt OneWeb LEO services for future sites where satellite backhaul is the preferred or only viable option. The strategic agreement will see up to 25 Gbit/s of LEO capacity being delivered to Telstra's most remote mobile customers across Australia to help enhance their experience when using real-time applications such as voice and video calling, and in time to expand mobile coverage as it supports new remote site deployments.

Eutelsat to Dispose of its European Retail Broadband Distribution Activities
June 15, 2023 – Eutelsat Communications has reached an agreement to sell its European broadband retail activities to an experienced private operator. The activities to be disposed of by Eutelsat include the affiliate Bigblu Operations Ltd and the other European retail activities in the UK, Ireland, France, Germany, Italy, Spain, Portugal, Poland, Hungary, and Greece. The disposal comes in the

wake of the considerable success of Eutelsat's wholesale go-to-market model to distribute its satellite broadband capacity over Europe, underpinned by major wholesale deals signed with Orange (France), TIM (Italy), Hispasat (Spain) and Swisscom (Switzerland) for the capacity in their respective markets on the Eutelsat KONNECT satellite. The private operator will also become a wholesale distributor in existing markets. This strategy will be further bolstered by the entry into service of KONNECT VHTS expected in the second half of 2023, with 230 beams over Europe and MENA, representing a Ka capacity of 500 Gbps, adaptable according to demand and specific needs in each country. Firm commitments have already been secured for part of this incremental capacity by important European telecom operators, (e.g., Orange, TIM or Swisscom), confirming the ability of KONNECT VHTS to provide a compelling and competitive solution for broadband to under-served regions of Europe.

NBN Co Exploring Connectivity Solutions with LEO Satellite Providers

June 14, 2023 – NBN Co has released a closed request for information (RFI) to low earth orbit satellite (LEOs) providers to further understand their offerings. The request for information is the first step in NBN Co looking ahead to how best to meet the evolving broadband needs of homes and businesses in the nbn® satellite footprint. The Company said the introduction of low earth orbit satellite technology over the last few years has been an exciting development. It is seeking to understand directly from the LEO operators what might be possible considering the scale of the nbn satellite footprint and user base and whether a number of unique nbn obligations can be met in order to supply services, including price certainty, network and data sovereignty and options for local support.

Comtech and E-Space Team Up to Make Space-Powered Connectivity Services Available and Actionable Anywhere

June 14, 2023 – Comtech and E-Space, the company bridging Earth and space to enable hyper-scaled deployments of Internet of Things (IoT) solutions and services, today announced a teaming agreement to collaborate, develop and deploy innovative space-based communications solutions and IoT services to support predominantly government and targeted commercial customers. The collaboration will leverage Comtech's vast portfolio of industry leading technologies and strategic partnerships, coupled with E-Space's future advanced space system, inclusive of its global low Earth orbit (LEO) constellation and unique device capabilities, to provide customers with secure, resilient global connectivity services. The E-Space space system, optimized with edge Artificial Intelligence (edge AI), will enable the delivery of new smart applications, real-time actionable insights and suggested courses of action.

OneWeb Signs LOI with Kazpost and Beeline Kazakhstan

June 14, 2023 – OneWeb signs a Letter of Intent with Kazpost and Beeline Kazakhstan to cooperate in fixed LEO satellite connectivity services to enable digitalization of the nationwide postal offices' network in the Republic of Kazakhstan. OneWeb announces that it has signed a Letter of Intent (LOI) with Kazpost, Kazakhstan National Postal Service, with the largest regional branch network in Kazakhstan, and Beeline Kazakhstan to address the needs for high-speed internet communications in remote areas across Kazakhstan. The LOI was signed at the Inaugural Astana International Forum 2023 in Astana, Kazakhstan. Currently, 340 out of Kazpost's 2,000 stationary rural post offices are not connected to the Internet. OneWeb will provide these remote locations with high-speed internet connection, with Beeline Kazakhstan acting as the technical integrator of the project. OneWeb LEO satellites-powered broadband connectivity will enable Kazpost to provide e-government, e-commerce, transport and logistics, financial services for businesses and the public across the country.

Aerkomm and SES to Jointly Deliver MEO Connectivity Services across Taiwan

June 9, 2023 – Connectivity services provided via SES's O3b and O3b mPOWER constellation operating in medium earth orbit (MEO) are now available commercially for the first time in Taiwan to

Aerkomm Taiwan's government customers, announced both companies. Aerkomm Taiwan Inc., a subsidiary of Aerkomm Inc. USA, was recently awarded a commercial satellite communications frequency license by the Taiwan Ministry of Digital Affairs, authorising Aerkomm to offer connectivity services via non-geostationary satellites. Aerkomm will be able to offer high-throughput, ultra-flexible and carrier-grade connectivity services delivered via O3b mPOWER, SES's second-generation MEO communications system, from even the most remote regions across Taiwan.

Network Innovations Signs Strategic Alliance Agreement with ABS

June 8, 2023 – Network Innovations Inc. (Network Innovations or NI) and ABS, a global satellite operator, have formed a strategic commercial alliance to deliver C-band and Ku-band managed satellite services. The partnership benefits from the unique combination of ABS' satellite capacity and teleport services and Network Innovations' managed network services capabilities. The first network as part of this alliance will leverage ABS' Subic Bay teleport capabilities and satellites to cover the Asia Pacific region and is currently operational. The resulting extensive coverage and reach will enable secure and reliable satellite connectivity to serve various customer segments including enterprises, telcos/MNOs, maritime and government institutions.

OneWeb and Eutelsat Demonstrate Multi-orbit Offering and Global Connectivity Solution to NATO

June 8, 2023 – Representatives at the NATO Communications and Information Agency (NCIA) took part in a successful demonstration of combined Geo-stationary (GEO) and low Earth orbit (LEO) multi-orbit capability from satellite companies and strategic partners, OneWeb and Eutelsat last month. The hands-on live demonstration enabled the NATO attendees to get a real feel for the steps that, together, both companies are making to provide a multi-orbit architecture that will deliver robust and resilient connectivity to deliver data and communications. The event provided an opportunity to explain how both companies play vital roles in Eutelsat's Secure, Agile, Resilient and Assured (SARA) SATCOM for NATO concept, which comprises a layered, multi-orbit communications plan providing end users with primary, alternate, contingency and emergency (PACE) connectivity should any specific network become disrupted or unavailable for any reason. In addition, OneWeb also took the opportunity to showcase its ecosystem of solutions that will provide seamless connectivity across its global network of more than 600 LEO satellites. The company connected to its LEO constellation via its newly launched Kymeta Hawk u8 user terminal, mounted on a 4x4 Land Rover Discovery to demonstrate high throughput and low latency communications.

SES Space & Defense Delivers Satellite Connectivity to AWS Modular Data Center for the U.S. Department of Defense

June 8, 2023 – SES Space & Defense, a wholly-owned subsidiary of SES, today announced the availability of flexible, secure, and reliable satellite-powered network connectivity for AWS Modular Data Center. AWS Modular Data Center makes it easy for the U.S. Department of Defense (DoD) to deploy modular data centers managed by Amazon Web Services (AWS) in infrastructure-limited locations. In February 2023, AWS announced the availability of AWS Modular Data Center to the DoD under the Joint Warfighting Cloud Capability (JWCC) contract. Leveraging SES's multi-orbit, multi-band global fleet of satellites with AWS Modular Data Center, defense customers can access low-latency, cloud-based applications and services securely in Denied, Disrupted, Intermittent, and Limited (DDIL) environments through a dedicated network connection to AWS Regions. The U.S. DoD customers will also be able to leverage SES's second-generation medium earth orbit (MEO) constellation, O3b mPOWER, designed with an open architecture approach in space, ground, and user terminal allowing users to bring their own modems/waveform. The introduction of O3b mPOWER system later this year further pushes industry benchmarks, delivering high-performance connectivity services ranging from tens of megabits to multiple gigabits per second for DoD customers.

Intelsat to Deliver 2Ku Connectivity Upgrade to Japan Airlines

June 6, 2023 – Intelsat has reached an agreement with long-time customer Japan Airlines (JAL) to upgrade about 50 Boeing 737s and 767s to the company's 2Ku inflight connectivity solution. In addition to the fleet of Boeing 737s and 767s, JAL's subsidiary airline, J-AIR Co. Ltd. is currently installing Intelsat's 2Ku system on the carrier's fleet of Embraer E190 aircraft. As recently announced, J-AIR will complete installation of the 2Ku system on 14 E190s by the end of 2024. When completed, J-AIR will be the first regional airline in Japan to offer inflight entertainment and connectivity services. The 2Ku service includes a mechanically-steered, phased-array antenna that will replace the gimballed antenna Intelsat originally installed on the airline's fleet nearly 10 years ago. The service is designed to operate on today's high-throughput satellites, as well as with Intelsat's fleet of new software-defined satellites (SDS) that will enter service in 2025.

MEASAT Expands Beyond Connectivity with Showcase of Satellite-enabled Content, Enterprise Cloud and Security Solutions at Asia Tech x Singapore 2023

June 6, 2023 – MEASAT Global Berhad ("MEASAT"), Malaysia's leading satellite solutions provider, is expanding beyond its connectivity roots with a showcase of its latest satellite-enabled solutions at SatelliteAsia, Asia Tech x Singapore 2023 ("ATxSG"), Asia's flagship tech event, from 7 to 9 June 2023 at the Singapore Expo exhibition centre. At the event, MEASAT will be conducting live demonstrations of new solutions, in collaboration with global industry leaders Amazon Web Services ("AWS"), Cisco Systems, Inc. ("Cisco") and Hughes Network Systems ("Hughes").

ST Engineering iDirect Announces Collaboration Agreement with Airbus Defence and Space

June 6, 2023 – ST Engineering iDirect, a global leader in satellite communications, and satellite manufacturer Airbus Defence and Space, have entered into a strategic partnership to enable tighter space to ground integration, and promote technology and vision for the future. The partnership, which comes at a time when the satellite world is evolving to software-defined satellites and the emergence of NGSO constellations, will ensure satellite operators have access to the benefits of tightly integrated space and ground solutions to address their future network architecture and service requirements. Both parties will draw on their long history of collaboration, experience and proven technology to focus on areas of innovation and that will benefit satellite operators' time-to-market. Areas of focus will include the fully digitized Onesat GEO satellites; NGSO constellation programs; the identification of existing and emerging use cases; the corresponding end-to-end solution architecture and future standards. With customers focused on the reduction of costs yet with the expectation of high performance, Airbus has designed its satellite portfolio to reduce in-orbit costs, time to orbit and to deliver reconfigurable and flexible on-orbit solutions. ST Engineering iDirect's high-performance, highly flexible ground segment technology meets these requirements.

Kymeta Launches First Flat Panel Antenna for Maritime Industry on OneWeb's LEO Network

June 6, 2023 – Kymeta and OneWeb announced that Kymeta's electronically steered Peregrine u8 LEO terminal is now commercially available and will begin shipping, becoming the first flat panel antenna to serve the maritime market on OneWeb's LEO network. This industry-first offering unlocks a new standard of connectivity for maritime customers, who require exceptional performance and reliable connectivity at sea, where existing networks often don't reach. Kymeta's deep roots in the maritime market extend back to the launch of its maritime product line in 2017, and guided the streamlined design of the Peregrine u8 LEO terminal, which is purpose-built for maritime applications. By tapping into OneWeb's enterprise-grade connectivity, all large vessels – from superyachts to commercial fishing and shipping vessels – can now connect easily and seamlessly at sea in the same way as they would on land.

OneWeb Launches Connectivity for Maritime Sector

June 6, 2023 – OneWeb announces it is launching its "Try Before You Buy" maritime service. The service will take bookings from maritime users who want to benefit from OneWeb's 100mbps+

enterprise-grade flexible connectivity packages at sea. With 634 OneWeb operational satellites now in orbit, the OneWeb constellation is complete and fully operational down to 35 degrees latitude. OneWeb will have the final ground stations completed and operational requirements in place, ensuring the company remains on track to deliver full global maritime services by the end of the year. Now OneWeb will start selling services to the maritime industry, via its specialist maritime distribution partners. OneWeb and its partners have also developed a range of hardware terminal products which are available from trusted maritime communications providers Intellian and Kymeta. Offering hardware terminal products from two established providers with different form factors enables greater choice for customers. Based on a Service Level Agreement (SLA) model, OneWeb customers can choose flexibility underpinned by guaranteed service levels, defined by straightforward CIR (Committed Information Rate) and/or MIR (Maximum Information Rate) packages.

INTEGRASYS Develops MOBISAT and Successfully Completes ESA's ARTES Programme Project

June 5, 2023 – INTEGRASYS has successfully completed the MOBISAT project, carried out under the European Space Agency (ESA)'s Advanced Research in Telecommunications Systems (ARTES) Core Competitiveness programme with the support of the Centre for the Development of Technology and Innovation (CDTI) in Spain. MOBISAT represents the first Ground Segment software to enable the first fully automated commissioning of SATCOM On-the-Move/SATCOM On-the-Pause (SOTM/SOTP) mechanically steerable antennas. MOBISAT is grounded in interoperable Satmotion technology, which is already integrated into Satcom manufacturers' systems encompassing around 80% of the market. The new tool will perform in mobility scenarios where the Satcom antennas need to continuously track satellites. As a result of the increasing investments in providing pervasive high-speed data communications services via GEO/NGSO satellite systems, effective technologies to control the antennas are essential in order to take advantage of the New Space developments. MOBISAT is zero-touch commissioning that guides the antenna and fixes to optimise the link, RX gain, TX gain and interference nulling, as well as the right power settings without the need for any human interaction. It has been designed so that any kind of antenna can be easily integrated.

Inmarsat Maritime Launches Fleet Reach, Bringing Seamless Connectivity to Ships from Sea to Port

June 2, 2023 – Inmarsat Maritime, a Viasat business, has announced its new Fleet Reach coastal LTE service for maritime connectivity, which brings uninterrupted high-speed broadband to merchant, offshore, energy and fishing customers – even when they are sailing near the coast or are docked in-port. Traditionally, coastlines and ports are congested connectivity hotspots. With a high number of people and vessels accessing networks at the same time, connections are not always reliable. This is a regular headache for seafarers around the world, with the average vessel spending up to 40% of its time in-ports or in coastal areas. Inmarsat Maritime's Fleet Reach - optimised by Fleet Xpress - offers supercharged coastal connectivity thanks to added terrestrial mobile connectivity. This enables faster speeds, increased signal strength, lower latency and more reliable connectivity when sailing near coasts or docked in-port. This means that seafarers can enjoy consistent connectivity wherever the vessel is, with the service seamlessly switching between technologies to ensure an always-on connection.

Viasat Completes Acquisition of Inmarsat

June 1, 2023 – Viasat Inc. has announced the completion of its acquisition of Inmarsat. The combined company enhances our scale and scope to continue to drive growth in the increasingly dynamic and competitive satellite communications industry. The company's assets, once fully integrated, are expected to increase the pace and scope of innovation in the global satellite connectivity sector, offering new and improved capabilities to customers that will address the ever-increasing speed, flexibility, reliability, coverage and security they demand. The combined company will continue to be led by Mark Dankberg as Chairman and CEO and Guru Gowrappan as President. Viasat also reconfirmed that its new global international business headquarters will be in London. Corporate

headquarters will continue to be in Carlsbad, California. Further decisions regarding organizational structure and leadership will be determined as part of the ongoing integration process. The closing of the Inmarsat acquisition enables the companies to bring together spectrum, satellite, and terrestrial assets, including 19 satellites in space spanning Ka-, L- and S- bands. These complementary assets are expected to deliver connectivity and key safety services across maritime, aviation, government and consumer markets with speed and reliability of connection front of mind.

BROADCAST

AsiaSat Acquires Lightning International Expands Service to Provide Additional Content Distribution and Media Solutions

June 20, 2023 – AsiaSat announced its 100% acquisition of Lightning International Limited. The addition of Lightning into the AsiaSat family is a strategic move to expand the company's services and extend its clients' reach to global audiences through traditional and new distribution platforms including OTT and FAST. With over 12 years of distributing TV channels and programme content to worldwide audiences via TV stations, pay TV operators and streaming platforms, Lightning represents producers, channels and other media businesses from Europe, Asia and around the world, and provides advice on a wide range of content and media solutions. Combining Lightning's expertise in content distribution with AsiaSat's all-embracing satellite and IP-based distribution capabilities will enable both companies to deliver customised solutions including content aggregation and playout, channel distribution and affiliate management.

Satcom Direct Joins Forces with McQ to Launch Groundbreaking Video Bandwidth Agility Kit.

June 13, 2023 – SD Government, the satellite communications provider for global governments, has teamed with advanced surveillance systems experts, McQ, to add the SD Video Bandwidth Agility Kit (VBAK) to its expanding portfolio of services. Delivering near real-time high-definition video over low bandwidth in beyond line-of-sight (BLOS) applications for military and civilian government customers, the VBAK is a breakthrough technology for intelligence, surveillance, and reconnaissance (ISR), and search and rescue (SAR) missions. With its clarity, speed, and multiple-platform capabilities, it is transforming fixed-wing, helicopter, and UAV operations with reduced weight and size limitations. The VBAK internal compact SD WiFi Hub router and video compression module sit between the onboard camera and modem in a hardened case, collecting video data and compressing it using McQ vWatch® software. The video is then transmitted through the SD Plane Simple® Ku-band antenna to a coordination server, where it is distributed simultaneously to multiple end-users, including command and control centers and other aircraft. The video compression bundle is transport agnostic and compatible with Ka, Ku, and L-band satellite communication (SATCOM).

EWTN Español Launches on DIRECTV Satellite and DIRECTV STREAM

June 1, 2023 – EWTN Español, the leading Spanish-language Catholic media network, will launch on DIRECTV Satellite and DIRECTV streaming, effective June 1, 2023. With this new launch, viewers will be able to tune into EWTN Español on Channel 475 as part of their Spanish packages. Additionally, EWTN Español will also be available on DIRECTV's streaming service, known as DIRECTV STREAM. This expansion marks a significant milestone as EWTN Español becomes accessible through all of DIRECTV's services, including direct-to-home satellite, streaming, and the IPTV service known as AT&T U-verse, where it has been airing on channel 3077.

LAUNCH / SPACE

SES-18 C-Band Satellite Goes Operational

June 27, 2023 – SES announced today that the SES-18 satellite is now delivering services at 103 degrees West, replacing SES-3's C-band payload. SES-18 is enabling SES to continue delivering C-band

broadcast and radio services to millions of American homes, as well as provide other critical network communications services to the United States. SES-19, which was launched in tandem with SES-18, has arrived at its orbital slot at 135 degrees West, where it is co-located with SES-22. With this milestone, SES has completed the successful in-orbit deployment of five of the six new satellites as part of a broader Federal Communications Commission (FCC) program to clear a portion of C-band spectrum to enable wireless operators to deploy 5G services across the contiguous U.S. (CONUS). Satellite operators, including SES, have been tasked by the FCC to clear the lower 300MHz of C-band spectrum throughout CONUS by December 2023. The remaining sixth satellite, SES-23, is on the ground as a spare to provide redundancy in case of need. SES-18 is critical to that effort, enabling SES to transition existing services to the upper C-band frequencies while maintaining uninterrupted services for customers. By providing contractual service protections to customers who receive video services in the U.S., SES-18 will enable SES to finish clearing C-band spectrum to help accomplish the FCC's ambitious goals for American 5G innovation.

Safran and Terran Orbital Sign a Memorandum of Agreement to Produce Satellite Electric Propulsion Systems in USA

June 23, 2023 – Safran Electronics & Defense and Terran Orbital announced that they have signed a Memorandum of Agreement to study and validate the prerequisites for production of a new generation of electric propulsion systems for satellites in the United States, based on Safran's PPSX00 plasma thruster. Safran Electronics & Defense, via Safran Spacecraft Propulsion, and Terran Orbital will undertake an in-depth analysis to determine the technical, industrial and economic prerequisites for a new U.S.-based production line for electric propulsion systems. The location under consideration is a Terran Orbital facility in Irvine, California, which produces microsatellites. In addition to providing the American space industry with a local source of satellite thrusters, contributing to the economy and employment, this new line will match Safran's production facilities in France, eventually doubling the company's international production capacity. Developing effective and sustainable propulsion systems for satellites is a critical challenge worldwide, as increasingly stringent international regulations stipulate greater sustainability and resilience in spacecraft. A higher degree of spacecraft maneuverability is needed to avoid collisions, along with a system to deorbit low Earth orbit (LEO) satellites at the end of their service life. Safran's PPSX00 plasma thrusters, rated at about one kilowatt of power, will be used to meet the burgeoning mobility requirements of LEO satellites.

Rocket Lab to Launch Space Object Monitoring Mission for Spire Global & NorthStar

June 22, 2023 – Rocket Lab USA, Inc. announced that it has signed a dedicated launch deal with Spire Global to deliver its first four Space Situational Awareness (SSA) satellites to low Earth orbit for its Space Services customer NorthStar Earth & Space Inc. ("NorthStar"). The dedicated mission on Electron will deploy the satellites to a 530km circular orbit from Rocket Lab Launch Complex 1 in New Zealand during a launch window that opens in September 2023. To meet NorthStar's program requirements, Spire has selected Rocket Lab to launch the satellites on an accelerated timeline within five months of contract signing. Spire has previously launched with Rocket Lab on Electron's first two commercial missions, Still Testing and Its Business Time, in 2018. NorthStar, headquartered in Montreal, Canada, is the first commercial SSA service provider to actively scan and monitor space from space. NorthStar´s block of four satellites, built and operated by Spire, will be the first to simultaneously monitor all near-Earth orbits from space, delivering a radically enhanced level of SSA services to the global satellite community, with timely and precise information for space object detection, tracking, orbit determination, collision avoidance, navigation, and proximity alerts.

Intelsat to Sustainably Extend Life of Four Satellites by 2027

June 20, 2023 – Intelsat, operator of one of the world's largest integrated satellite and terrestrial networks and leading provider of inflight connectivity (IFC), ordered its second Mission Extension Pod (MEP) from Northrop Grumman Corporation's SpaceLogistics, which will add life to an Intelsat

satellite, providing uninterrupted services to many customers. The new contract represents the fourth deal with SpaceLogistics, following an order for a single MEP in April 2023 and two Mission Extension Vehicles (MEVs) already in service with Intelsat satellites. The MEP "jet pack" will be installed by SpaceLogistics' mission robotic vehicle (MRV) on an unidentified Intelsat satellite operating in geosynchronous orbit, ensuring continuity of satellite service for at least six years beginning as early as 2026. Both MEP and MRV have completed critical design reviews, are in assembly and testing, and are proceeding toward launch. This recent purchase is the second this year, continuing Intelsat's legacy of space sustainability first instituted in 2020 when SpaceLogistics' Mission Extension Vehicle (MEV-1) performed the first-ever in-orbit commercial spacecraft docking with Intelsat 901 (IS-901). That mission extended the life of IS-901 for another five years. In 2021, a second Mission Extension Vehicle (MEV-2) began providing similar life-extension services for Intelsat 10-02.

Safran Invests in Vyoma, a Startup Specializing in Space Debris Monitoring

June 20, 2023 – Safran Corporate Ventures is pleased to announce the signing of a joint investment, with three co-investors, in Vyoma as part of an €8.5 million funding round. The Germany-based startup founded in 2020 plans to launch a constellation of observation satellites to monitor space debris in low-Earth orbit. It will use a fleet of satellites carrying dedicated telescopes to identify and catalogue space debris. The data – in combination with Vyoma's services – will enable satellite operators to autonomously navigate and avoid collisions with debris. Vyoma is positioned in the strategic domain of space situational awareness (SSA) and aligned with Europe's commitment to space sovereignty. Alongside this investment, Safran will work in partnership with Vyoma in three areas. Safran Electronics & Defense, will investigate the feasibility of flying radiofrequency sensors and laser rangefinders on Vyoma's constellations and will work with the startup on sharing complementary data to maximize its precision and value. Safran Reosc will explore the development of an optical instrument to detect objects smaller than 2 cm in surveillance mode that complements Vyoma's existing and future sensor portfolio.

Astroscale Expands Operations to France and Secures Contract with CNES

June 19, 2023 – Astroscale Holdings Inc. ("Astroscale"), the market leader in satellite servicing and long-term sustainability across all orbits, has announced the opening of Astroscale France SAS ("Astroscale France") and a contract with the French national space agency, Centre National D'Etudes Spatiales (CNES). The contract, to be signed on June 20 at the Paris Air Show in Le Bourget, formalizes a partnership between Astroscale France and CNES that includes a funded study for active debris removal of French space debris. The specific debris will be determined in early 2024. Astroscale France is incorporated in Paris and will establish a location for larger facilities soon, along with naming a Managing Director and announcing other key employees. Globally, Astroscale has expanded its workforce to meet customer demand and now has approximately 450 team members. Astroscale France is the latest addition to new facility openings and upgrades worldwide, including in the United Kingdom, the United States, Israel, and at the company's global headquarters in Tokyo.

Indonesia's SATRIA Communications Satellite Successfully Launched

June 19, 2023 – The SATRIA communications satellite was successfully launched atop a SpaceX Falcon 9 vehicle from Cape Canaveral in Florida. SATRIA (SAteliT Republik IndonesiA) is a satellite designed to bridge the digital divide in Indonesia. Offering throughput of 150 Gbps, it will deliver high-speed Internet to the thousands of islands in the Indonesian archipelago, providing connectivity across thousands of zones for schools, hospitals, and public buildings, as well as regional government facilities not already connected by existing terrestrial or satellite systems. Thales Alenia Space was chosen to build the satellite by the Satelit Nusantara Tiga (SNT) consortium on behalf of the Indonesian Ministry of Communications and Information Technology (Kominfo). This very-high-throughput satellite (VHTS) is based on Thales Alenia Space's all-electric Spacebus NEO platform and features a fifth-generation digital processor. The company also supplied two satellite control centers

— main and backup — and the mission ground segment for the all-digital payload. SATRIA will be the first VHTS communications satellite in Indonesia, and also the most powerful in the South-East Asia region. With a launch mass of 4.6 tons, it will operate in Ka band and be positioned in orbit at 146° E for a design life of 15 years.

Rocket Lab Debuts HASTE Rocket with First Successful Suborbital Launch from Virginia

June 17, 2023 – Rocket Lab USA, Inc., a global leader in launch services and space systems, today announced it successfully launched its first suborbital testbed launch vehicle, called HASTE (Hypersonic Accelerator Suborbital Test Electron) for a confidential customer. The inaugural launch took place on June 17 at 21:24 Eastern local time (June 18, 01:24 UTC) from Rocket Lab's Launch Complex 2 at Virginia's Mid-Atlantic Regional Spaceport within NASA's Wallops Flight Facility. The HASTE suborbital launch vehicle is derived from the Company's Electron rocket but has a modified Kick Stage for hypersonic payload deployment, a larger payload capacity of up to 700 kg / 1,540 lbs, and options for tailored fairings to accommodate larger payloads, including air-breathing, ballistic re-entry, boost-glide, and space-based applications payloads. By leveraging the heritage of Rocket Lab's low-cost Electron – the world's most frequently launched commercial small launch vehicle – HASTE offers true commercial testing capability at a fraction of the cost of current full-scale tests.

Vast Selects Impulse Space for Haven-1 Space Station Propulsion

June 15, 2023 – Vast, a pioneer in space habitation technologies, announced that it selected Impulse Space, a leader in the development of in-space logistics services, to provide its Haven-1 Space Station propulsion system. Impulse Space and Vast will work closely to integrate the propulsion system as a key subsystem of Haven-1, scheduled to launch on a SpaceX Falcon 9 rocket to low-Earth orbit in August 2025 and is expected to be the world's first commercial space station. The Haven-1 propulsion system, designed and delivered by Impulse Space, will include Reaction Control System (RCS) thrusters to augment resident control moment gyros and deorbit thrusters for end-of-life operations. The Saiph thruster is already qualified and will, by the time Haven-1 launches, have significant flight heritage from multiple LEO missions starting in October 2023. Additionally, the Haven-1 propulsion system will use a storable non-toxic propellant combination, nitrous oxide and ethane, similar to other space vehicles developed by Impulse and Vast. The propulsion system will also consist of propellant tanks, Saiph thrusters, fluid lines, valves, sensors, control electronics and control software.

Gilmour Space Confirms MMI Funding for Australian Space Manufacturing Network

June 8, 2023 – Gilmour Space Technologies confirmed today that it has executed a $52 million grant agreement with the federal government to advance the development and commercialisation of new space technologies in Australia. The funding will support a $156 million Australian Space Manufacturing Network (ASMN) project it led under the Modern Manufacturing Initiative (MMI) Collaboration stream; and will be co-funded by the Queensland government, Gilmour Space, and its partners. It is the largest collaboration project for space in the MMI, bringing together more than 30 space companies, universities, and supply chain partners – including international satellite companies mu Space and SatRevolution; as well as Australian partners such as Neumann Space, Swinburne University of Technology, Spiral Blue, Greatcell Energy, and ARM Hub. Gilmour Space is currently seeking a location for the ASMN hub on the Gold Coast and is targeting to begin operations in 2024.

Astroscale Awards a Contract to Share My Space to Facilitate Space Risk Identification.

June 6, 2023 – Share My Space, the French space surveillance and operations safety startup has signed a new contract with Japanese headquartered in-orbit servicing company Astroscale. This first contract will optimally enable Astroscale to assess space objects' attitude in LEO, a mandatory requirement for any on-orbit rendez-vous. As space exploration and satellite population continue to advance, the need for effective space surveillance becomes increasingly urgent. Attitude analysis of space objects is a critical factor in ensuring environmental safety, mitigating the risk of catastrophic collisions in space and preventing further polluting fragmentation. To that effect, Astroscale has

called upon Share My Space's value-added services in orbital objects attitude analysis. By assessing the attitude of space objects, Share My Space ensures that space activities are conducted safely, responsibly and with minimal impact on the environment. Share My Space has been utilizing its ground-based sensors to collect optical data for Astroscale in LEO, to analyse it and extract and characterise light curves. From these light curves, Share My Space describes rotation rates and tumbling axis analysis of all kinds of space objects. Tracking and characterising space objects facilitates potential risks identification and preventive decision-making processes. Astroscale is the first private company with a vision to secure the safe and sustainable development of space for the benefit of future generations and is dedicated to in-orbit servicing across all orbits.

Thales Alenia Space to Be Part of the Consortium to Develop the Destination Earth Core Service Platform

June 6, 2023 – Thales Alenia Space will partner with Serco, the leader of the consortium awarded by the European Space Agency (ESA) to implement the DestinE Core Service Platform (DESP), a key element of the European Commission's flagship initiative Destination Earth (DestinE). The objective of DestinE is to develop a highly accurate digital models of the Earth in order to monitor and predict the interaction between natural phenomena and human activities, anticipate extreme events and adapt policies to climate-related challenges. The DESP will be an open, user-friendly, flexible, and secure cloud-based computing system that will provide evidence-based decision-making tools, applications and services. It will enable the development and exploitation of applications and services leveraging DestinE data, which will include data from ESA's Earth Explorers, the Copernicus Sentinel series, data from European Centre for Medium-Range Weather Forecasts (ECMWF) and, over time, other major data holdings in Europe. Thales Alenia Space is responsible of the run time orchestration platform set-up, deployment and operations as well as all the cybersecurity management of the DESP Framework. Thales Alenia Space is also responsible of all the traceability services to trace models and data, in particular following user transformations.

EXECUTIVE MOVES

SES Announces its Chief Executive Officer Steve Collar to Step Down

June 12, 2023 – SES announces today that Steve Collar, Chief Executive Officer (CEO), will be stepping down at the end of June 2023 to pursue other professional and personal endeavours. The search for a successor is underway and Ruy Pinto, currently Chief Technology Officer of SES, will assume the role of CEO until a permanent successor is announced. Ruy Pinto joined SES in February 2017 and was appointed Chief Technology Officer in January 2019, driving the differentiation in multi-orbit capabilities and the cloudification of SES. Prior to SES, Ruy spent over 25 years at Inmarsat in various lead technical and managerial roles.

AsiaSat Announces Appointment of Raymond Chow as Chief Commercial Officer

June 5, 2023 – Asia Satellite Telecommunications Co. Ltd. (AsiaSat), Asia's premier satellite solutions provider, today announced that Raymond Chow has been appointed as the Chief Commercial Officer. Joined AsiaSat in 2018, Raymond most recently served as Vice President, Business Development and Strategy, responsible for growing the data business and the transformation of AsiaSat. In his new role, Raymond will lead and execute the global commercial strategies for AsiaSat and its subsidiaries/associated brands including sales, marketing, solutions as well as new product development to meet ever-changing customer requirements. Raymond has over 20 years of professional experience in the satellite industry. Before joining AsiaSat, Raymond has held various senior positions in global satellite companies, including the role of EVP Global Sales and Marketing. He has led sales and business development initiatives by growing customer base globally including Africa, Americas, Europe, Greater China, Middle East and Asia Pacific through securing strategic long-term contracts and partnerships with telecommunication companies, system integrators, and global and regional video broadcasters for their business expansion.

REPORTS

NSR's Satellite Manufacturing and Launch Report Projects $595 Billion Market
June 20, 2023 – NSR's *Satellite Manufacturing & Launch Markets, 13th Edition (SMLM13)* report forecasts over 32,500 missions to be ordered and to launch over the next decade, generating $595 billion in revenues between 2022-2032. Revenues are expected to be propelled by higher-mass Crew and Cargo missions to LEO orbit and to the Moon, in particular as part of NASA's Project Artemis. Satellite manufacturing and launch is a growing and expanding opportunity, driven by high demand, increasing competition, and innovation in all sectors. While supply chain shortages, rocket delays and failures, and funding challenges remain, these obstacles are overtaken by a global demand for space infrastructure that will become a key component of global networks and national strategies in the coming decade.

NSR's Satellite Capacity Report Sees LEOs Massively Disrupting the Industry
June 13, 2023 – NSR's *Satellite Capacity Supply & Demand, 20th Edition (SCSD20)* observe the rapid rise in LEO satellites have forever altered the satellite capacity market, shifting it from high priced wholesale centric to one driven by near commodity pricing, value-added offerings and telco integration. Massive LEO/MEO supply, coupled with innovative ground segment technology now makes satellite offerings more relevant than ever to the broader telecom industry. With over $257 billion in satellite capacity revenue projected over the next decade, it is clear LEO satellites are a critical enabler of this growth.

NSR Releases Rural Broadband Connectivity Report
June 6, 2023 – NSR's newest report *Rural Broadband Connectivity: Challenges, Opportunities, and Case Studies for Satellite Connectivity (RBC)* delves into the intricacies of their approaches, shedding light on the strategies employed to overcome barriers and increase broadband connectivity worldwide. In this comprehensive analysis, we explore the diverse business models adopted by the satellite industry, examining five compelling case studies from around the globe. By examining the impact on household broadband penetration rates, we uncover invaluable insights that can shape your organization's approach.

UPCOMING EVENTS

Space Congress 2023 Conference & Expo, July 10-12, New Delhi, India,
https://www.indiaspacecongress.com/

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

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

APSCC 2023, October 10-12, Kuala Lumpur, Malaysia, https://apsccsat.com/

OTT SUMMIT, December 8, Singapore, https://ottsummit.asia/

EDITORIALS AND INQUIRIES

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About APSCC

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