

APSCC Monthly e-Newsletter

JULY 2018

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 2018 Satellite Conference & Exhibition

2-4 October, Shangri-La Hotel, Jakarta, Indonesia, <http://apsccsat.com>

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 2018 Satellite Conference & Exhibition, with the theme **#SATECHconnect**, will incorporate industry veterans and new players into the program to reach out to a broader audience. Mark your calendar for the APSCC 2018 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@apscc.or.kr for general inquiries to the APSCC 2018.

APSCC 2018 Youth Development Workshop

4 October 2018, Shangri-La Hotel, Jakarta, Indonesia, <http://apsccsat.com/workshop/>

The APSCC Youth Development Workshop is a platform for the brightest up-and-coming engineering students in the Asia-Pacific region to connect with leading satellite and space industry experts and to learn more about the opportunities in the satellite and space sector. The 3rd Youth Development Workshop will be held on October 4 at Shangri-La Jakarta Hotel for university students who are interested in the satellite and space industry. This one day workshop consists of educational sessions including Satellite Communications Fundamentals, Satellite Communications Regulation, and Satellite Telecommunications Market Overview and a hands-on activity. Dr. Soyeon Yi, the first and only astronaut in Korea will lead the workshop as the Chair!

APSCC Welcomes HISE, Inc. as a New Regular Member

HISE, Inc. (pronounced as "his-ee") is a Washington DC, USA based consulting company. HISE serves clients mainly from Asia Pacific Region and USA for strategic advisories and market development supports for the space and telecommunications fields. HISE's strength and expertise are to connect players between Asia and US markets, leveraging rigorous experiences of Eddie Kato, Founder & President of HISE and his partners.

SATELLITE BUSINESS

Myanmar Expands Relationship with Intelsat for Network Infrastructure Deployment

June 1, 2018 - Intelsat announced that the Ministry of Transport and Communications (MOTC) of Myanmar has broadened its relationship with Intelsat to accelerate the deployment of the country's wireless communications infrastructure in Myanmar. The MOTC will utilize services on Intelsat 39, a Ku-and-C-band satellite which is scheduled to replace Intelsat 902 at 62° East in 2019. Under the new multi-year, multi-transponder agreement, Intelsat 39 will host both C- and Ku-band satellite services for MyanmarSat-2 which will enable the Government of Myanmar to significantly enhance its existing network as well as the networks of other mobile operators' and media companies. This will advance the expansion of affordable, high-speed broadband and internet connectivity to government agencies, businesses and communities throughout the country. It will also support and advance the MOTC's goal of ensuring that 95 percent of its population will have access to broadband connectivity by 2022.

US DoD Contracts MEO Services via Blanket Purchase Agreement with SES Government Solutions

June 4, 2018 - SES Government Solutions (SES GS), a wholly owned subsidiary of SES, has signed a single-award Blanket Purchase Agreement (BPA) with the U.S. Department of Defense (DoD) for Medium Earth Orbit (MEO) low-latency High Throughput Satellite (HTS) services. The total amount of all orders placed against the BPA cannot exceed USD 516.7 million over a five-year period of performance from 1 May 2018 through 30 April 2023. With this agreement, U.S. DoD customers will have the opportunity to access SES's industry-leading O3b MEO services worldwide. The BPA scope of work includes managed services (HTS capacity and broadband services, gateway services, and monitoring and control services), satellite terminals, field service representative (FSR) support, training and terrestrial backhaul.

Navarino Announces Strategic Partnership with Intelsat

June 4, 2018 - Navarino, the maritime industry's leading technology company, announced that it will add maritime connectivity services from Intelsat S.A. to its portfolio of connectivity solutions. Under the agreement, Navarino will introduce innovative Intelsat satellite services delivered from the award-winning IntelsatOne Flex platform, a global managed service designed to optimize bandwidth allocations and provide flexible coverage where it is needed most. With this service set to be introduced to customers in Q3 2018, Navarino CEO Dimitris Tsikopoulos is expecting a high level of interest in the new possibilities that the Intelsat/Navarino collaboration will bring.

Intellian Unveils Next-gen 85cm Ku- to Ka-band Satellite Antenna System

June 5, 2018 - Intellian unveils its new 85cm Ku- to Ka-band convertible maritime VSAT antenna, the v85NX. This next-generation v85NX is the lightest and best-performing 80cm-class terminal available with a number of key features that make it easier to install, operate and maintain. The brand-new 85cm antenna is both smaller, lighter and has better RF performance. Its form factor gives smaller vessels access to 1-meter designated networks. With a highly efficient RF design, the performance in the Ku-band is increased about 1.5dB compared to existing 80cm systems. The entire NX range of antennas from Intellian will share modular components, which will reduce the number of spare parts by more than 30% and lower the total cost of ownership for the systems. Also, the modular component design improves reliability and enables easy maintenance.

Intelsat Joins Smart Africa to Help Accelerate Africa's Digital Transformation

June 5, 2018 - Intelsat S.A. has joined Smart Africa during the Transform Africa Summit held in Kigali in May 2018. Established in 2013, Smart Africa is a bold and innovative commitment to accelerate sustainable socioeconomic development on the continent and usher Africa into the knowledge economy through affordable access to broadband and usage of ICT. The Smart Africa Initiative is geared towards connecting, innovating and transforming the continent into a knowledge economy thereby driving global competitiveness and job creation. The initiative also aims at enabling Member States to become more competitive, agile, open and innovative smart economies with the most favorable business climates that attracts large-scale investments, rewards entrepreneurship and enables fast growth and exports, leveraging ICT innovations to transform African nations into smart societies.

Comtech EF Data and Kepler Communications Collaborate to Advance Rapidly Deployable Satellite Communications

June 5, 2018 - Comtech EF Data and Kepler Communications announced collaboration to advance rapidly deployable, low-cost, low-latency communications via Low Earth Orbit (LEO) satellites and ground station infrastructure equipment. Kepler Communication's first Ku-Band LEO satellite, KIPP, was launched on January 19, 2018, enabling data offload services to remote communities and maritime markets. KIPP is the first in a planned constellation of up to 140 LEO satellites that will provide real-time global connectivity by 2022. Today, KIPP is tasked with delivering Kepler's Store-and-Forward service for the transmission of latent tolerable data. Kepler Communications contracted with Comtech EF Data's AHA Products Group to provide the on-board satellite waveform processing technology to operate on its flexible software defined satellite radio payload. Kepler Communications also contracted with Comtech EF Data to provide its industry-leading CDM-760 Advanced High-Speed Trunking and Broadcast Modem to perform satellite to ground testing and ground to satellite data services.

IsoTropic Achieves Excellent Performance with New iDirect iQ 200 Remote

June 5, 2018 - A live, over-the-air test of DVB-S2/S2X conducted by IsoTropic Networks, a global solutions provider of satellite Internet services, found that early tests of the new iDirect iQ 200 Series were able to

outperform competitive products reaching close to 200 Mbps aggregate throughput. With so much market-hype, IsoTropic decided to test the performance of DVB-S2/S2X products to determine their real-world capabilities to ensure their customers were guaranteed superior services using best-in-class technology. IsoTropic tested the new iDirect iQ 200 Series in a lab setting with a MODCOD of 256APSK, achieving close to 200 Mbps aggregate throughput. The IsoTropic team then conducted live over-the-air (OTA) tests saturating a 36 MHz transponder, using 32APSK and a 1.2m antenna, having the iQ 200 operated at speeds of over 130 Mbps with zero errors or packets loss. In both lab and over-the-air test scenarios, the iQ 200 outperformed competitors.

Inmarsat Signs Collaboration Agreement with Hellenic Space Agency

June 6, 2018 - Inmarsat has signed a MoU with the Hellenic Space Agency (HSA) to allow greater collaboration on research and potential technology development. The HSA is mandated by the Hellenic Republic to promote space and technology and foster research activities related to advance scientific engineering within the framework of Greek government policy. The MOU will specifically look at collaboration on research and development opportunities in space and ground segment technologies, as well as exchange of data. Additionally, the two organizations will look at the role of satellite within the Internet of Things (IoT) and the potential for strategic research studies on future maritime software technologies and broader space policy. Finally, there is also an opportunity for secondments between the two organizations.

NigComSat Upgrades iDirect Network to Expand into Growing West Africa Market

June 6, 2018 - VT iDirect announced that Nigerian Communications Satellite (NigComSat), a leading satellite operator and service provider based in Nigeria, has upgraded its iDirect network to the latest Evolution 4.1 software to achieve significant gains in bandwidth efficiency and enhance customer experience. With the upgrade of its extensive C-band and Ku-band networks, NigComSat, which manages iDirect hubs in Lagos and Abuja, will be able to expand further into key markets such as government, defense, maritime, education, enterprise and cellular backhaul. Evolution 4.1 enables service providers to launch DVB-S2X networks and increase the performance and efficiency of DVB-S2 networks, unlocking High Throughput Satellite (HTS) capacity to maximize throughput and offer cost-effective services. As part of the second phase of the upgrade to DVB-S2X, NigComSat will install iDirect's high-performance Universal Line Cards and Intelligent Gateway (iGW) virtualization appliance to improve hub density and network processing.

Globecomm Adds Iridium Certus to Maritime Connectivity Portfolio

June 6, 2018 - Globecomm, one of the leading providers of maritime connectivity services, has signed an agreement to become a maritime distribution partner of the new Iridium Certus mobile broadband satellite service from Iridium Communications. The agreement enables Globecomm to further extend its portfolio of satellite, LTE and hybrid connectivity solutions and integrate all of its value-added services, increasing choice for shipowners and operators. Shaped entirely around user needs, Globecomm Maritime provides robust and secure end-to-end solutions for enterprise and crew communications, IoT and M2M services. Underpinned by Iridium's \$3 billion investment in the Iridium NEXT satellite constellation, Iridium Certus is currently undergoing live testing, with plans to offer speeds of 352 Kbps on launch, upgradable to 704 Kbps, via small terminals and solid-state, active-array antennas. Future throughput speeds will reach approximately 1.4 Mbps and Iridium Certus will also enable multiple streaming and safety services designed to provide reliable connectivity in the harshest environments.

SES Announces 10 Project Partners in QUARTZ Satellite Cybersecurity Consortium

June 7, 2018 - Ten project partners comprising research organisations, universities and leading industry representatives have joined the SES-led consortium to develop the Quantum Cryptography Telecommunication System (QUARTZ), SES announced. The new members of the consortium will develop a system that will generate encryption keys in space, and securely transmit those keys to users on Earth via laser. In order to achieve delivery of a reliable, globally available cybersecurity system and deliver next-generation encryption keys to networks in geographically dispersed areas, the new platform will leverage the unique advantages of satellite, including global reach and unlimited coverage. The development of QUARTZ is supported by the European Space Agency (ESA) under a recently announced agreement with SES. In the project framework, SES and partners will define, design and develop a satellite-based Quantum Key Distribution (QKD) system and service architecture, which will include the future service and the core technologies, as well as ground end-to-end testing. QUARTZ applications will address the needs of users

such as telecommunication operators, financial organisations, infrastructure providers, institutions and governmental organisations.

U.S. FCC Expands Market Access for SES O3b MEO Constellation

June 8, 2018 - SES has been granted, by the U.S. Federal Communications Commission (FCC), authorization to serve the U.S. market using a significantly expanded O3b fleet in the Medium Earth Orbit (MEO). The FCC grant opens significant additional frequencies to SES for use in its non-geostationary (NGSO) constellation and enables it to deploy O3b mPOWER satellites into inclined and equatorial orbits, delivering full global pole-to-pole coverage. A total of 26 new O3b satellites are authorized, in addition to the 16 satellites already operational and in orbit. The grant allows SES to add 4 satellites to its existing O3b constellation, which are scheduled for launch next year, and provides the framework for SES to triple its next-generation O3b mPOWER fleet by giving U.S. market access for another 22 super-powered satellites, of which 7 are currently under construction and scheduled for launch starting in 2021.

Fraunhofer IIS Demonstrates Direct IoT Connectivity via GEO Satellite

June 8, 2018 - The Fraunhofer Institute for Integrated Circuits IIS has successfully demonstrated the direct transmission of sensor data from multiple transmitters via a geostationary satellite. For the test transmission, the institute employed portable, ground-based transmitters equipped with small, omnidirectional C-band antennas. Fraunhofer IIS developed this particular transmission method specifically for Internet of Things applications that use satellites (Satellite IoT). The particular challenges associated with using GEO satellites for IoT applications are, first, the vast distance between the transmitters and the satellites (about 36,000 km) and, second, that satellites in orbit tend to use the same frequencies. This is why antennas on the ground must be relatively large, with high amplification and suitable directional capabilities, to minimize interference to neighboring satellites and systems.

KT to Bring Next Tech Revolution to Space and North Korea

June 11, 2018 - KT Corp., South Korea's largest telecommunications company, said that its satellite business operator will gear up efforts to bring the next technology revolution to outer space as well as the Korean peninsula. KT SAT employees inspect satellite antennas at the Kumsan Satellite Service Center on June 7. KT SAT Co., Ltd., Korea's only satellite service provider, aims to become the seventh-largest satellite operator in the world by 2025, up from its current 18th rank. To achieve this, it will focus on using latest 5G mobile technologies in outer space, applying quantum cryptography to satellite communication, and providing a blockchain service for secure data sharing. As two Koreas move toward peace recently, KT SAT expects to launch its satellite service in North Korea, a potential market for communications and broadcasting networks. KT Corp. has created a special task force to support inter-Korean cooperation and expand exchanges in ICT following April's landmark summit between North and South Korea.

Sky and Space Global Signed a Binding Agreement with IATAS

June 12, 2018 - Sky and Space Global (SAS) has signed a binding Memorandum of Understanding (MoU) with the International Air Traffic Automation Systems (IATAS) to explore expansion and development opportunities surrounding the integration of the SAS network across the IATAS platform. This is the Company's first agreement within the commercial aviation services sector and serves as a framework agreement to commence discussions regarding new collaborative commercial and technical opportunities between SAS and IATAS. These opportunities may be directly with airline customers or in a joint venture capacity. In addition to this, discussions have commenced to secure a binding, definitive agreement for IATAS to incorporate the SAS network into its service offering and commercialise its services in line with SAS's nano-satellite network infrastructure. The IATAS platforms include real-time solutions for air traffic control surveillance, interactive airport mapping for pilots, remote tower operations, automated air traffic control systems, digital black-boxes and anti-collision software.

TÜV Rheinland Announces Launch of its Global Industrial Cybersecurity Center in Kuala Lumpur

June 12, 2018 - TÜV Rheinland announces the launch of its global Industrial Cybersecurity Centre of Excellence (CoE) based in Kuala Lumpur, Malaysia. The Centre of Excellence will address the cybersecurity needs of its industrial clients such as manufacturing companies, plant operators, energy and utility companies, transportation and transit system operators to secure their operational technology landscape. In a rapidly evolving digitalization of markets across all businesses there is a significant need and demand for deep Industrial Security skills and expertise that this Centre of Excellence will continue to develop worldwide. Under the Global Centre of Excellence, the first Operational Technology (OT) Security Lab

based in Kuala Lumpur, Malaysia will serve as the Regional Hub for showcasing industrial cybersecurity technology, knowledge and client consultations. The Operational Technology Security Lab will provide a safe controlled environment for clients to experience scenario -based simulations to test and demonstrate industrial systems vulnerabilities and cybersecurity threats.

Viasat Acquires Horsebridge Defence and Security

June 13, 2018 - Viasat Inc. acquired Horsebridge Defence and Security, a UK-based company focused on design, system integration and support of deployable secure networks. Through this acquisition the Viasat UK group gains deeper military communications integration expertise; enabling the Company to continue to grow its business in the UK defence market by delivering mission-critical ground-based communication networks and services. From their UK-base in Cheltenham, Horsebridge Defence and Security have developed robust relationships with the UK Armed Forces, supporting a number of UK Ministry of Defence (MOD) programmes.

Infostellar Partners with Kyushu Institute of Technology for Continued Testing of StellarStation

June 13, 2018 - Long time collaborators Infostellar and Kyushu Institute of Technology (Kyutech) have formed an official partnership in order to accelerate collaboration and development of StellarStation. Under this partnership, Kyutech will become a StellarStation test user, allowing Infostellar to further refine the platform and support Kyutech's ongoing satellite projects. Prior to this partnership, Infostellar collaborated with Kyutech on the ground station network for the BIRDS Project by providing a prototype of the current StellarStation platform. CEO Naomi Kurahara is also an alumna of Kyutech and conducted research under Professor Mengu Cho as a student. Following many years of cooperation, the new Infostellar-Kyutech partnership is the next step toward making this long-standing relationship into an official arrangement.

TBI to Bring Viasat's Business Internet Services to More Businesses Nationwide

June 14, 2018 - Viasat Inc. announced it signed TBI as its latest Master Agent partner to offer Viasat's business internet services. TBI is a leading telecommunications distributor having a network of 2,500 sales agents that include: sales partners, value-added resellers, managed service providers and consultants. As a Viasat Master Agent, TBI's network will be able to offer Viasat high-speed satellite internet as an option to their enterprise and business customers across the U.S., filling broadband coverage gaps where business customers want assured, reliable high-speed broadband communications. Additionally, with Viasat satellite internet service, TBI business customers gain access to a diverse, resilient secondary connection for business continuity and SD-WAN implementations. Installation of service typically takes place within three to five days of ordering, giving business customers the ability to quickly deploy and use Viasat's fast, reliable connectivity service.

AsiaSat Seeks Collaborative Efforts to Implement Measures Protecting Existing Satellite Services against Interference from Future 5G Networks

June 14, 2018 - AsiaSat has responded to the Communications Authority (CA)'s decision to reallocate the 3.4 - 3.7 GHz band, the lower C-Band frequency in Hong Kong, from FSS (satellite) to mobile service (5G) and the subsequent proposal of two exclusion zones as a potential solution. In the responses, AsiaSat shared the fact that the C-band's use in satellite communications is the major frequency for connecting Hong Kong's teleports to other continents, creating a hub for telecommunication services in the international market built three decades ago. The C-band provides a variety of services including contribution and distribution of TV services, broadcasting data and information such as meteorological data and maritime/aeronautical related safety. In Hong Kong alone the band has significant historical importance, bringing television events from the Olympic Games to the Hong Kong Handover ceremony. C-band provides the city with coverage of breaking international news and live sports, from premier sports leagues, tournaments, international athletic games, to motor-racing and world summits, like the Belt and Road Forum. More crucially, C-band is used for disaster relief and emergency communications services.

Navarino Enters into Supply Agreement with Intellian for its New Ku Band Service.

June 14, 2018 - The Navarino Group has entered into a supply agreement with Intellian, one of the leading maritime satellite antenna manufacturers. The company will supply antenna equipment for the upcoming Navarino Ku-band service, expected in Q3 of this year, will combine highly specialized connectivity packages with flexible terms of use.

Inmarsat and KDDI Sign Landmark Fleet Xpress Agreement

June 15, 2018 - Inmarsat and Japanese telecommunications giant KDDI have signed a partner agreement to distribute Fleet Xpress to the Japanese maritime market – including deep sea vessels, commercial fishing, oil and gas, and cruise lines. From 1 July, KDDI will offer a complete, end-to-end Fleet Xpress package, including the full range of airtime service options and choice of approved antennas. The landmark agreement comes after our Global Xpress Ka-band satellite service was granted a blanket licence in Japan by the Japanese Ministry of Information and Communications earlier this year. The partnership will enable KDDI to offer customers a future-proof communications package, unique in the maritime industry for a terminal of this size. This will provide global high-speed coverage, dual Ka-band and L-band antennas for continuous connectivity, together with speeds and service guarantees previously only available with much larger, high-power antennas.

Kratos to Develop Proof of Concept System Enabling Satellite Communication Roaming Capability

June 15, 2018 - Kratos RT Logic has won an award for the Pilot Phase 2 program. This effort will implement a proof-of-concept system enabling an enterprise solution to increase the capacity and resiliency of wideband satellite communications (SATCOM). Kratos' system will enable government satellite users to roam, similar to the way cell phone users roam through multiple cellular networks. This will be demonstrated with a Flexible Modem Interface (FMI) that enables secure communication across multiple operator networks, in multiple frequency bands, utilizing diverse waveforms and modems. It will show implementation of critical command and control (C2) capabilities allowing an existing U.S. government terminal to switch to different satellites if the main satellite is compromised, enhancing resiliency through path diversity and enabling global service connectivity to multiple available networks. Under the terms of the award, Kratos will also demonstrate a prototype government network operating center (GNOC) function that responds to user requirements and service provider capabilities. The function interfaces to SATCOM gateways and remote terminals, provides situational awareness, and successfully mitigates threats.

Canada to Acquire Thales Advanced Ground Segment Technology to Respond to Distress Signals

June 18, 2018 - Canada has awarded Thales Canada Phase II of the MEOSAR (Medium Earth Orbit Search and Rescue) Ground Segment contract. It will support Canada's ability to respond quickly and effectively to distress signals from land, air and sea from coast-to-coast-to-coast; enabling Canada to meet its obligations under the International COSPAS-SARSAT Programme Agreement. The contract includes the procurement of two MEOLUTs and maintenance services for five years with options for an additional five years. Using Thales Alenia Space's powerful and compact MEOLUT Next phased array solution, Canada will benefit from the world's first space borne search and rescue system of this type. Thales Alenia Space designs, operates and delivers satellite-based systems for governments and institutions, helping them position and connect anyone or anything, everywhere. Since its commissioning in 2016, MEOLUT Next has delivered unrivalled performance, detecting distress signals more than 5,000km away.

Togo Acquires Thales Alenia Space's MEOLUT Next Ground Station to Locate Distress Signals

June 18, 2018 - Togo and Thales Alenia Space announced that they have signed a contract for a ground station to be installed in Lomé, Togo, to be used for the search and rescue (SAR) of persons in distress, mainly using the Galileo satellite positioning system. Based on Thales Alenia Space's MEOLUT Next (Medium Orbit Local User Terminal), the latest-generation MEOSAR (Medium Orbit Search and Rescue) technology, this system will enable the instantaneous location, with unprecedented accuracy, of a distress call issued by a beacon operating through the COSPAS-SARSAT system.

Marlink Boosts Satellite Capacity for Indian Ocean and Falkland Islands Fishing Vessels

June 19, 2018 - Marlink has boosted satellite capacity in the Indian Ocean and around the Falkland Islands with specific focus on delivering reliable, high bandwidth VSAT services to commercial fishing vessels. The new capacity is already enabling improved vessel and fleet operations and providing greater access to voice calling and Internet for crews on a number of Spanish tuna vessels in the Indian Ocean serviced by Marlink partner Nautical, while the extra bandwidth around the Falkland Islands has been put in place to meet a predicted spike in demand as more companies look for new fishing grounds.

Elbit Systems Acquires IMI Systems

June 19, 2018 - Elbit Systems Ltd. announced that the agreements reached between Elbit Systems and the Israeli Government for the acquisition of IMI Systems Ltd., were approved by the Committee for the Tender

of the Sale of State Shares and by the Board of Directors of the Company. The purchase price will be approximately \$495 million (NIS 1.8 billion), with an additional payment of approximately \$27 million (NIS 100 million) contingent upon IMI meeting certain performance goals. Completion of the transaction is subject to the signing of the relevant documents and the receipt of the remaining applicable governmental approvals, including the approval of the Head of the Israeli Antitrust Authority.

Newtec Empowers Myanmar's Newest Mobile Operator

June 20, 2018 - Newtec announced it is enabling Communication & Commerce (Com & Com) to launch a mobile backhaul network for Telecom International Myanmar Company Limited's brand Mytel, Myanmar's fourth and most-recent mobile operator, a joint venture by government-owned Star High Public Co Ltd, Myanmar consortium (comprising of 11 companies) MTNH and the Vietnamese telecom company - Viettel. The tender was awarded to Com & Com - a joint venture company established between Terabit Wave (Myanmar) and OSB JSC (Vietnam) - for its high performance, low Operational Expenditure (OpEx) and the support of Newtec's proven dynamic bandwidth allocation technology, Mx-DMA® along the Newtec MDM3100 Satellite Modems. A number of modems have already been installed. Mytel will be able to deliver 2G, 3G and 4G services across Myanmar, increasing its coverage as it prepares for the expected growth in mobile traffic.

OPT Enhances Digital Access across French Polynesian Islands with SES Networks

June 20, 2018 - SES announced that the Office des Postes et Telecommunications of French Polynesia (OPT) is delivering enhanced mobile broadband and Internet services to residents across the vast French Polynesian territory through a new partnership with SES Networks. Under the new agreement, OPT will access the powerful NSS-9 satellite's wide C-band coverage to reach the sprawling Polynesian archipelago of 118 islands in the South Pacific and beyond. Connectivity on NSS-9 will enable OPT and its fully-owned subsidiary, VINI, to grow their network to meet consumers' and businesses' fast-growing connectivity needs, and provide new and enhanced user experiences and services. OPT has been using SES satellite capacity to provide connectivity services since 2007.

C-COM Announces Successful Test of Ka-band Phased Array Mobile Satellite Antenna

June 21, 2018 - C-COM Satellite Systems Inc., has successfully tested its 16x16 subarray phased array antenna using 4x4 Transmit and Receive building blockmodules. The panels were developed and tested at the Centre for Intelligent Antenna and Radio Systems (CIARS) at the University of Waterloo. The primary goal of the research project is to focus on the development of a new modular, low-cost, intelligent and conformal Ka-band antenna for the next generation mobile satellite communications. The now proven modular approach allows antenna designers to develop any size and shape of phased array panels using the smallest intelligent active 4x4 subarray.

Viasat Receives Sole-source Link 16 Contract from the USAF

June 21, 2018 - Viasat was awarded an Indefinite Delivery/Indefinite Quantity (ID/IQ) contract in May 2018, worth up to \$42 million by the United States Air Force (USAF) for the purchase of supplemental units, maintenance and support services for Viasat's AN/USQ-140(V) Multifunctional Information Distribution Systems (MIDS) Low Volume Terminals (LVT). MIDS-LVT units are part of a tactical Link 16 radio communications system that provides warfighters greater situational awareness by exchanging digital data over a common communication link. Link 16 is continuously and automatically updated in real-time, reducing the chance of fratricide or duplicate assignments, while increasing mission effectiveness. Under the ID/IQ contract, the USAF has the ability to quickly provide global defense forces with Viasat's AN/USQ-140(V) terminal, which will provide assured, real-time, jam-resistant secure transmission of data, voice and position and location information between geographically dispersed military forces operating across the battlespace. The MIDS-LVT units are recognized for enhancing mission effectiveness and improving warfighter safety. Today, Viasat currently has over 3,500 MIDS-LVT terminals fielded to 20 customers worldwide.

mu Space Secures Satellite Spectrum Rights over 6 ASEAN Countries

June 21, 2018 - Satellite and space company mu Space will soon be offering satellite services to governments, telcos and businesses within and outside Thailand through the future development of a satellite operating at the 50.5 East degree orbital position. Upon the launch of mu Space's future satellite, mu Space will be able to make available satellite capacity and services over Cambodia, Laos, Malaysia, Myanmar, Thailand and Vietnam. A recent agreement between mu Space and SES will allow mu Space to

develop future services using satellite spectrum rights at 50.5 degree East. mu Space announced earlier a commercial deal with SES to deliver satellite-based broadband and mobile services to rural communities in Thailand using satellite capacity on SES-8 and SES-12.

SC Group Improves Fleet Operations with Thaicom Nava Maritime Broadband Service

June 22, 2018 - Thaicom and its distributor Ship Expert Technology Company Limited have signed an agreement with SC Group, a leading Asian provider of integrated logistics, to collaborate on the joint development of a maritime communication network service. SC Group's fleet of more than 30 offshore support vessels will be equipped with the new Nava service to enhance fleet operations and optimize operational efficiency. The fleet management solution will be powered by the Thaicom Nava FTTS (Fibre-to-the-Ship) platform which is able to support very high data rates and provide constantly high bandwidth for operational efficiency with wide area satellite coverage across Asia Pacific. Nava FTTS also helps crew keep connected and incorporates an L-band backup solution. Nava is Thaicom's new maritime broadband service platform for ship and offshore operators in Asia. With the launch of the service earlier this year, Thaicom is expanding its broadband service platform to support the maritime industry's digital transformation. Nava helps the maritime industry to meet the increasing data demand at sea, enables efficient vessel operations, and connects crew and passengers to high-speed internet anywhere and anytime.

MEASAT Deploys First DVB-S2X Service in Asia

June 24, 2018 - VT iDirect, Inc. announced that MEASAT Satellite Systems has deployed the first iDirect DVB-S2X network in Malaysia in a bid to bring scalable and affordable satellite broadband Internet services across Malaysia. This state-of-the-art platform allows MEASAT to tap into new markets and take advantage of High Throughput Satellite (HTS) opportunities in a cost-effective manner. Complementing existing terrestrial connectivity, the new service provides an additional communications option for Malaysians with limited or no access to broadband. MEASAT chose to use iDirect's Universal Hub chassis with iQ Desktop remotes, as well as iDirect's ULC-T line cards designed to support much higher symbol rates of up to 119 Msps and higher modulation and coding (MODCOD) schemes via a software license upgrade. iDirect's ULC-R line cards feature Adaptive TDMA, multi-channel support, and a path to higher symbol rates on the return.

Airbus to Provide an End-to-end Geo-Information System to Thailand

June 25, 2018 - The Geo-Informatics and Space Technology Development Agency of Thailand (GISTDA) has selected Airbus as partner for its next-generation national geo-information system. The end-to-end system will make Thailand one of the few nations able to fully exploit geo-information for societal benefits. Fully in line with Thailand's 4.0 policy, the THEOS-2 programme will constitute a major milestone in the development of Space in the Eastern Economic Corridor and its Digital Park. As part of the contract, a comprehensive capacity building programme will involve Thai engineers in the development of an integrated geo-information system, ground segment and two Earth observation satellites: a very high-resolution and a small satellite system. The small satellite system from Airbus' subsidiary SSTL will be assembled and tested in-country by Thai engineers to deliver technology transfer and involve local suppliers. This will be complemented by an extensive training scheme capitalizing on Airbus' comprehensive geo-intelligence expertise, and will further develop Thailand's geo-spatial industry.

Avanti Communications Signs \$10 Million Contract with Viasat

June 25, 2018 - Avanti Communications (AVN) has signed a \$10 million contract with global communications company, Viasat Inc. The deal provides Viasat with leased capacity on a steerable beam on the newly launched Avanti HYLAS 4 satellite. The contract has an initial period of two years. Kyle Whitehill, Chief Executive Officer, Avanti Communications said "Avanti's contract with Viasat reflects the winning qualities of our HYLAS 4 satellite. This is a confirmation that our new carrier strategy helps operators to increase addressable markets and drive customer satisfaction without additional satellite and launch capex spend." Ken Peterman, president, Government Systems at Viasat continued: "Partnering with Avanti will give us access to steerable Ka-band satellite coverage and capacity to further enhance connectivity services for global government applications on Viasat's Best Available Network. We expect easy integration of the HYLAS 4 satellite capacity into our global network - enabling us to quickly bring capacity to where our customer demand exists."

Bambu Wireless Selects EUTELSAT 172B to Provide Connectivity Services across the Philippines

June 26, 2018 - Bambu Wireless has signed a multiyear contract with Eutelsat Communications for capacity on the EUTELSAT 172B satellite. Commercialised under the brand BambuSat, the capacity will be used for broadband, maritime, and government services across the Philippines' 6,000 inhabited islands. Bambu Wireless will leverage Ku-band capacity on EUTELSAT 172B to offer a wide range of connectivity solutions for education, healthcare, agriculture and logistics across the country's three island groups - Luzon, Visayas and Mindanao - that stretch over 1,850 kilometres.

Mutiara Smart Selects Hughes's Jupiter System for Malaysian Government and Defense Agencies

June 26, 2018 - Hughes Network Systems has been selected by Mutiara Smart Sdn Bhd, a leading provider of network telecommunication and IT services in Malaysia, to deploy the Jupiter System bring enterprise-grade, managed network services to Malaysian government and defense agencies. The Hughes solution selected by Mutiara Smart includes the HG220 Jupiter Gateway, remote terminals, and a network management system to deliver both C- and Ku-band capacity from two satellites cost-effectively across all of Malaysia. The system features enhanced networking technology for increased efficiencies as well as a 5IF interface capable of supporting multiple bands and transponders across up to five satellites, ensuring future scalability. The initial order includes a hub and 200 remote terminals, expected to expand significantly over two years.

Our Telekom Ramps up Connectivity across Solomon Islands with SES Networks

June 26, 2018 - Solomon Telekom Company Limited, trading under the name Our Telekom, is expanding its partnership with SES Networks to enable faster and improved mobile and internet services to communities scattered throughout more than 900 islands within the Solomon Islands archipelago. Under the agreement announced by SES, Our Telekom, the leading operator in the Solomon Islands and Oceania region, has contracted capacity on SES' Geostationary Earth Orbit (GEO) fleet to enhance connectivity between remote provinces and the nation's capital, Honiara. This comes in response to rapidly increasing data consumption by residents and enterprise customers across the isles, especially in the archipelago's outermost stretches. The reliability of GEO connectivity complements fibre-like internet speeds that local populations already enjoy through Our Telekom's existing partnership with SES Networks. Last November, the telco launched its first 4G/LTE network in Solomon Islands powered by the O3b Medium Earth Orbit (MEO) constellation, and has upgraded bandwidth every four months since. With additional GEO capacity, Our Telekom brings improved connectivity services to communities and businesses located on even the farthest ends of the islands.

Cloud Constellation and ARABSAT Partner for Market Development of SpaceBelt Services

June 26, 2018 - Cloud Constellation Corporation and Arab Satellite Communications Organization (ARABSAT) announced they have entered into a MOU to develop a go-to-market strategy for enterprise and government customers in the Middle East, Europe, Africa and Central Asia. Cloud Constellation's SpaceBelt™ Data Security as a Service (DSaaS) is a patented, scalable, space-based cloud service for securing high-value and highly sensitive data assets by providing data storage in space and global, secure managed network services. SpaceBelt services are a paradigm shift in data security that greatly mitigates the risk of a data breach by providing global isolation of a customer's data from inherently vulnerable global terrestrial networks. A constellation of 12 satellites in low earth orbit (LEO) is networked with a redundant, self-healing optical ring for high availability. The SpaceBelt network communicates with secure access points located at enterprise, government and military facilities via connectivity with geosynchronous satellites (GEO). Individual cloud storage satellites and constellations can be offered to address an organization's storage and/or sovereignty requirements.

Kacific and Gardamor to Connect Remote Health Clinics throughout Timor-Leste

June 26, 2018 - Remote and rural health clinics across Timor-Leste will soon be connected to high speed satellite internet, providing them access to newly launched AdenBox, an online portal to manage medicines and medical equipment, as well as AdenCare, the country's central medical records database. The internet connection, supplied by Kacific Broadband Satellites Group (Kacific) and distributed by local company Gardamor Internet Services (Gardamor) and the Ministry of Health, will enable the launch and expansion of the healthcare software to more than 75 health centres covering all of Timor-Leste by July 2018. The central distribution centre for medicine in Timor-Leste, SAMES, installed its first small-scale satellite dish on 15 June, to connect with pharmacies and health clinics throughout the country via AdenBox.

Wateen Telecom Selects SES to Enhance Cellular Backhaul Connectivity throughout Pakistan

June 26, 2018 - Wateen Telecom customers can rely on Pakistan's leading fibre and satellite network service provider for reliable and enhanced voice and data signals in remote mountainous areas in the north and inaccessible southern regions of the country delivered via SES Networks' high performance connectivity. SES announced that the agreement will provide Wateen with access to high-powered C-band capacity on SES's NSS-12 satellite at the prime orbital location of 57 degrees East. The satellite capacity, coupled with Wateen's strong system integration capabilities, will provide a high-quality cellular backhaul service to Pakistan's leading mobile network operators. Wateen Telecom will support both 2G and 3G backhaul service on this network.

Viasat Delivers America's Fastest Satellite Internet Service for Businesses

June 26, 2018 - Viasat launched America's fastest satellite internet service for businesses, nationwide. The service offers a variety of unlimited and metered data plans with download speed options ranging from 35 Megabits per second (Mbps) across most of the U.S. up to 100 Mbps in select areas. Viasat is the first satellite internet service provider in the U.S. to offer plans up to 100 Mbps download speeds for business use. Plans are offered at 35 Mbps, 60 Mbps and 100 Mbps speeds. Viasat business internet offers customers that are out of the reach of cable or fiber connections high-quality access to internet speeds that are up to 10 times faster than DSL and up to 65 times faster than a T1 connection. With Viasat's broadband business internet plans, businesses even in the hardest-to-reach locations can now leverage essential business applications such as cloud-based collaboration, Voice-over-IP (VoIP), email, point of sale transactions, high-speed file transfers, streaming video, Internet of Things (IoT) applications and more.

VT iDirect to Launch iQ 200 Series for Enterprise, Cellular Backhaul and Maritime

June 26, 2018 - VT iDirect announced the launch of the iQ 200 Series, the latest in the company's next-generation DVB-S2X iQ remote portfolio. The iQ 200 will be available in Rackmount and Board variants, with a full market release in the third quarter of 2018. This new remote brings an ultimate balance of speed, efficiency and affordability of satellite connectivity to maritime, cellular backhaul and enterprise customers. The iQ 200 exceeded expectations in live, over-the-air tests by early adopters, outperforming competitive products and reaching 200 Mbps aggregate throughput. The iQ 200 Series is the ideal solution for Very Small Aperture Terminal (VSAT) customers in maritime and enterprise markets looking for the often elusive combination of high performance and cost effectiveness. The remote will be a critical component in bringing greater connectivity onboard ferries, fishing and merchant vessels, such as small container ships and oil tankers, and will support the rapid growth of cellular backhaul, banking, education, energy, retail and Point-of-Sale networks.

Singapore's First Pay-per-Use IoT-as-a-Service Platform Trial

June 26, 2018 - Organisations will soon find it easier to adopt Internet of Things (IoT) applications and technologies in a more cost-effective manner through a common IoT platform. On this platform, resources can be shared without costly investment on infrastructure, connectivity, data analytics and applications. This platform is a new trial pay-per-use IoT-as-a-Service (IoT-aaS) that ST Engineering Electronics, SP Group and SP Telecom are jointly pursuing. The IoT-aaS is offered on a subscription basis to help enterprises and IoT partners move into the IoT space faster and more cost efficiently. Enterprises can save on set-up cost and select an IoT service that best matches their business needs. The IoT platform provides a unique advantage as a multi-protocol network solution. IoT partners can also leverage the secure network, thousands of SP Telecom hubs across the country and a multi-edge computing IoT platform to bring their services faster and closer to their customers.

Speedcast Launches People and Assets Tracking Platform

June 27, 2018 - Speedcast launched Speedcast FieldVision, a cloud-based platform designed for customers to connect, protect and monitor both people and assets through a single platform, from anywhere in the world. Available globally and operated from 18 data centers worldwide, Speedcast FieldVision provides customers with a scalable and cost-effective solution to access real-time data and keep people safe and assets secure. As businesses become more global, it is crucial to establish reliable processes for ensuring worker safety and addressing duty of care obligations. Speedcast FieldVision can safeguard lone workers through easy check-in with automated reminders, SOS alerting, man-down detection, crossed geo-fence notifications and a complete activity log. Customers can also configure global monitoring and emergency dispatch alerts sent to international emergency response coordination centers or their own internal systems.

PSN Selects Hughes JUPITER System to Enable Broadband Services throughout Indonesia

June 27, 2018 - Hughes Network Systems, LLC has been selected by PT Pasifik Satelit Nusantara (PSN), the oldest private telecommunication and information service provider in Indonesia, to provide the JUPITER™ System for broadband services over the PSN VI High-Throughput Satellite (HTS). The comprehensive Hughes solution includes HG240 Gateways, a variety of remote terminals, and a central network management system, enabling PSN to deliver satellite broadband services to consumers and businesses across Indonesia. The JUPITER System features enhanced networking capabilities and supports speeds up to 300 Mbps to an individual terminal. Powering HughesNet™, the number-one satellite Internet service in the world with 1.2 million subscribers, the JUPITER System is an ideal solution to support the high-growth potential of the PSN broadband offering. It incorporates a central network management system for efficient bandwidth allocation across multiple beams and operational control of remote terminals.

Speedcast Partners with Kymeta to Deliver KyWay Flat-Panel Terminal to Mobility Markets

June 28, 2018 - Speedcast International Limited announced a partnership with Kymeta Corporation to develop and roll out product offerings featuring the Kymeta KyWay Terminal, which integrates groundbreaking mTenna™ flat-panel antenna technology. Under the partnership agreement Speedcast will integrate the Kymeta terminal into the company's industry-leading Speedcast Atlas™ managed service to deliver the latest cutting-edge technology to its customers. The Kymeta KyWay terminal features an innovative electronically-steered, flat-panel Ku-band antenna. The slim and lightweight profile makes it easy to install in a variety of mobility settings, such as on the top of a yacht or the side of a command vehicle. The KyWay terminal has no moving parts, simplifying maintenance, and eliminates much of the cost and infrastructure required by traditional VSAT antennas, making it an ideal solution for mobility markets.

Inmarsat and AddValue Sign Contract for Satellite Operations via Inter-Satellite Data Relay System

June 28, 2018 - An agreement signed Inmarsat and flight hardware manufacturer AddValue, together with a leading satellite operator, is set to streamline the way satellite operators conduct their commercial and research operations with small, near earth orbit satellites. The agreement will allow the spacecraft to stay in continuous communications with their operation centre on the ground, thereby enabling mission tasking and mission data delivery in near real time. This agreement heralds the first constellation of Inter-Satellite Data Relay System (IDRS™) equipped satellites, one that will provide a game changing capability for satellite operators. Previously, low earth orbiting satellite connectivity has been limited to when the spacecraft is within line-of-sight of an Earth station. This delays in-orbit testing, mission control and fault-finding efforts. With IDRS on-board, the satellite operators will have access to on-demand, 24/7, near real-time, two-way IP-based links to all of their assets. This will allow them to respond to customer requirements and to operational anomalies in a timelier manner.

Gilat Awarded \$153.6 Million by Fitel Peru for Regional Telecommunications Projects

June 28, 2018 - Gilat Satellite Networks Ltd. announced a new award by Peru's Fitel for two additional regional telecommunications infrastructure projects totaling \$153.6 million. The Amazonas region was awarded for \$108 million and the Ica region for \$45.6 million. Gilat expects additional revenues to be generated by selling network capacity to cellular carriers to address the growing needs for voice, data, and internet in these regions, as well as the development of platforms for e-learning, e-health and e-government. Fitel awarded the new regions of Amazonas and Ica to Gilat in addition to the four telecommunications projects that are nearing completion, in the regions of Huancavelica, Ayacucho, Apurimac and Cusco. In the two additional regions, Gilat will build the infrastructure required to support the Peruvian population including connecting schools, police stations and health centers.

BROADCASTING

Turkish-language Channel YOL TV Starts on Astra 19.2 Degrees East with MX1

June 4, 2018 - MX1, a global solution provider of media services, announced that it has been selected as the distribution service provider for YOL TV, a Turkish-language channel based in Germany, starting June 1. MX1 is delivering the channel via an SES satellite and is providing the satellite uplink. YOL TV broadcasts from its studio in Cologne and transfers the transmission signal via an IP connection directly to MX1. The free-to-air broadcaster's programs are now accessible to a much larger audience through the partnership with SES and MX1. YOL TV content is available via satellite only at Astra 19.2 Degrees East and can be

received in Turkish-speaking households across Europe. YOL TV broadcasts predominantly Turkish-language programming, which is also distributed online, focusing on popular political and cultural topics in Turkey, Germany, and the world.

More Latin American Viewers to Enjoy PCTV Popular TV Content via SES Video

June 8, 2018 - PCTV (Productora y Comercializadora de Televisión), Latin America's largest television programming distributor, will be able to increase its viewership by distributing its TV channels to cable networks in Central and South America via SES's key orbital position at 47.5 degrees East, following a multi-year agreement with SES. Under the agreement announced by SES, PCTV will lease satellite capacity and leverage SES's high cable head-end penetration in Latin America to deliver some of its most popular TV channels to cable providers, including TVC Networks, Pánico, Cine Mexicano, Video Rola, and Platino. The TV channels will be distributed by SES's recently-launched satellite SES-14, which will be located at 47.5 degrees East and initiate commercial services in September. Until then, the TV content will be transmitted by NSS-806, currently operating from that orbital slot.

TeamCast Supports DVB-T2 Trials Performed by Broadcast Australia and Free TV

June 8, 2018 - Broadcast Australia (a BAI Communications Company) and Free TV are performing trials in order to evaluate next generation broadcast technology for Australia. The objective is to have a second-generation system able to broadcast 4K TV programs, while the first generation system built in 2001 and based on DVB-T cannot. The trials include both laboratory testing and field trials to determine candidate operating modes for the future system and to verify interoperability of multiple-vendors equipment for single frequency network (SFN) operation. TeamCast provided a TWISTER DVB-T2 exciter and associated support for the tests. TWISTER first successfully passed the SFN interoperability testing done in Laboratory. Then, it has been installed in a high power very high frequency (VHF) transmitter covering the Sydney area and installed at the Gore Hill site. The transmitter was configured to achieve a peak ERP of 50kW. The operating frequency is VHF Channel 10 (212.5 MHz) using a 7 MHz bandwidth. This setup is used to determine the actual coverage area of the different operating modes considered, through field measurements. In a third step, the field tests now involve several sites and aim to check the performance of SFN operation. The high power VHF transmitter powered by the TWISTER exciter is used for feeding two ultra high frequency (UHF) transmitters operating in SFN (Channel 29, 536.5 MHz) and field measurements aim to check the SFN performance.

Eutelsat to Broadcast 5,500 hours of HD Content during the 2018 FIFA World Cup Russia

June 12, 2018 - In the final run-up to the 2018 FIFA World Cup Russia™, Eutelsat Communications announces that capacity equivalent to 5,500 hours of High Definition (HD) transmissions has been booked by several TV channels and service providers ahead of the global event to be held from 14 June to 15 July. In addition to the regular broadcast capacity booked by Eutelsat's customers, capacity on five Eutelsat satellites will uplink signals from 11 cities across Russia during the month-long event. Delivering content to television networks based in Europe, Russia and the Americas, the event showcases the essential role satellite plays in providing global coverage, particularly in key international sporting events. Eutelsat's satellites form part of the broadcast infrastructure mobilised to enable millions of viewers to benefit from a wide-range of content, including not just the football matches, but also pre- and post-match interviews, coverage of team training, and the daily life of soccer fans.

Intelsat Partners with Globo to Demonstrate 8K Video Transmission during the World Cup

June 15, 2018 - Intelsat will partner with Globo, one of the largest broadcasters in Latin America, to demonstrate live 8K video transmissions in Brazil for the 2018 World Cup. The transmission of 8K content to the Brazilian venue will provide the finest clarity, stunning color and viewer experience available. That's due to the fact that 8K has double the resolution of 4K and 16 times the resolution of full HD. By watching the World Cup match in 7680 x 4320 pixels compared to the typical 1920 x 1080 pixels available in HD video, fans will feel as if they are in the stadium. The 8K signal will be transmitted as a 200 Mbps video stream at the International Broadcast Center in Moscow and transported to Tokyo. It will then be carried to Intelsat via the Intelsatpoint of presence in New York. The signal will be transmitted on the IntelsatOne terrestrial network to Intelsat's teleport in Atlanta, Georgia, where it will be re-encoded at 90 Mbps using a special NTT 8K HEVC real-time encoder. Once the video is compressed, it will be modulated by a Newtec MDM-6100 modem in DVB-S2 and then uplinked to Intelsat 14, the company's emerging HD video neighborhood in Latin America known for its HD and 4K content distribution.

Tata Sky Selects ThinkAnalytics for Live and On-demand Personalized Content Discovery

June 19, 2018 - Content discovery and viewer lifecycle management leader, ThinkAnalytics™, announced that Tata Sky, India's leading content distribution platform for Pay TV and OTT, has selected ThinkAnalytics to power personalized content recommendations across connected devices. The personalized recommendations will initially be available on Tata Sky's applications across mobile and PC platforms. Tata Sky, which has over 18 million connections, will roll out the ThinkAnalytics Recommendations Engine to its OTT users soon. Tata Sky selected market leader ThinkAnalytics because of its proven ability to scale to millions of users and its track record in helping Pay-TV and OTT operators worldwide to boost engagement and loyalty. In addition, ThinkAnalytics has development and support operations in Pune, India.

AP1TV and MEASAT Team Up for Nepalese Broadcasting

June 21, 2018 - MEASAT Satellite Systems Sdn. Bhd. (MEASAT) announced an agreement with Nepal Digital Services Pvt. Ltd, to broadcast four (4) free-to-air video channels across Nepal on MEASAT-3 at 91.5°E. The four channels, which have already begun transmission, are AP1HD, BTV Business, TV Today and TV Filmy. Nepal is currently digitalizing its broadcast services in accordance with the initiative by the Nepalese government. The 91.5°E prime video hot slot is home to the MEASAT-3, MEASAT-3a and MEASAT-3b satellites, forming the region's strongest video neighbourhood. From 91.5°E, MEASAT supports broadcasters and DTH operators to distribute UHD, HD and SD channels to audiences across Asia, Australia, East Africa and South-Eastern Europe.

AsiaSat Collaborates with KBZ to Provide OTT via Satellite Video Service in Myanmar

June 27, 2018 - Asia's leading satellite operator announced its collaboration with KBZ Gateway Company Limited (KBZ) to explore business opportunities for providing OTT (Over-the-Top) via Satellite video service in Myanmar. This initiative will initially support the free to air distribution of national TV channels, enabling audience across the country to have access to free online video content via mobile and other connected devices no matter where they are. The OTT via Satellite video service is a dynamic solution to help broadcasters and content providers reach their audiences instantly and cost effectively. The service aims to make content more available across platforms, whether it is for bringing content seamlessly to separated and rural areas via village Wi-Fi or for connectivity on the move, such as for cruise ships, planes and trains. AsiaSat will invest in providing space segment and ground facility from its teleport hub in connection with the project. KBZ will invest in the supply of the installation, servicing and roll-out of OTT boxes in Myanmar and securing licensing of the TV channels to be distributed on the OTT platform.

MTI Teleport Munich Chose ABS to Deliver Live Coverage for the Wimbledon Championships

June 28, 2018 - ABS and MTI Teleport Munich have signed a capacity deal for the Wimbledon Championships 2018 to deliver video live coverage of the tournament to Sky Deutschland, the right-holder for the German market. From 2nd July, several simultaneous high definition (HD) video feeds from the venue will be carried over the ABS-3A satellite, ensuring a permanent contribution link between the various production facilities in London and Sky Deutschland headquarters in Unterfoehring. Sky Deutschland, the leading pay-tv operator will have exclusive HD coverage of the tournament, delivering the live broadcast signal of all the matches to the German market via satellite, cable and mobile networks.

LAUNCH / SPACE

China Welcomes All UN Member States to Jointly Utilize its Space Station

June 3, 2018 - China announced that all member states of the United Nations are welcome to cooperate with China to jointly utilize its future China Space Station (CSS). "CSS belongs not only to China, but also to the world," said Shi Zhongjun, China's ambassador to UN and other international organizations in Vienna. Interested public and private organizations, including institutes, academies, universities and private enterprises with scientific orientations, can identify their appropriate models of cooperation on board CSS, may it be the growth of a space plant, or even the accommodation of an astronaut, said the ambassador. CSS, expected to be launched by 2019, and complete and brought into operation by 2022, will be the world's first space station that is developed by a developing country and open for cooperation with all UN member states. Consisting of one core module and two experiment modules, CSS will have the capacity to accommodate up to three astronauts at the same time and maximum six during rotation. Operating in low-Earth orbit about 400 kilometers above the Earth's surface, CSS will be used in a wide range of research

fields, including space medicine, life science, biotechnology, microgravity science, Earth science and space technology.

SES-12 Roars into Space on-board SpaceX Falcon 9 Rocket

June 4, 2018 - SES announced that SES-12 was successfully launched onboard a flight-proven SpaceX Falcon 9 rocket from Cape Canaveral in Florida, United States. SES-12, which is uniquely designed with state-of-the-art wide beams and high throughput beams, will join SES-8 at 95 degrees East to meet the diverse needs of video, fixed data, mobility and government customers across Asia-Pacific and the Middle East. SES-12 is the latest satellite that SES has launched to that orbital position where it will operate under the authority of the Kingdom of the Netherlands. It will replace and augment the services currently being provided on SES' NSS-6 satellite. Together with SES-8, SES-12 will reach 18 million TV homes from its orbital position. The satellites will provide pay-TV operators the reliability and scalability to elevate viewing experiences by adding more content and delivering higher-quality picture quality to address the ever-increasing audience demand for High Definition (HD) and Ultra HD content. Like SES-14 and SES-15, which serve the Americas, the SES-12 high throughput payload is SES' solution for enhancing connectivity in the aeronautical and maritime segments across Asia-Pacific and the Middle East. SES-12 will also be pivotal in enabling governments to provide connectivity programs to bridge the digital divide, and in allowing telcos, mobile network operators and internet service providers to deliver more reliable cellular backhaul and faster broadband services.

Surrey Satellite Technology Limited Awards Launch Services Agreement to Firefly Aerospace

June 4, 2018 - Firefly Aerospace, Inc. announced the execution of a Launch Services Agreement (LSA) with Surrey Satellite Technology Limited for use of the Firefly Alpha launch vehicle. Firefly is to enter into an LSA with SSTL to provide up to six Alpha launches from 2020 through 2022. The Alpha launch vehicle allows for deployment of SSTL satellites as a primary payload to their preferred orbit, rather than flying as a secondary payload on a larger launch vehicle.

Thales Alenia Space Takes Major Steps Forward in Production of SWOT

June 5, 2018 - Thales Alenia Space announced that, following the successful critical design review (CDR) at the end of 2017, right on schedule, it has reached major new milestones in the construction of the oceanography satellite SWOT (Surface Water and Ocean Topography), backed by a number of innovative small and medium-size businesses. The SWOT satellite is being built by Thales Alenia Space in conjunction with the Jet Propulsion Laboratory (JPL) of the United States, on behalf of the French and American space agencies, CNES and NASA. The SWOT oceanography program will demonstrate new applications. It is a follow-on to the Jason-1, 2 and 3 operational missions. SWOT satellite is a pathfinder which will incorporate innovative new altimetry technologies. Thales Alenia Space is developing a new-generation platform for this program that will be the first of this type to be orbited in compliance with the French Space Operations Act (LOS), set to take definitive effect in 2020.

China Launches Meteorological Satellite to Benefit Belt and Road Countries

June 5, 2018 - China launched the new Fengyun-2H meteorological satellite to improve the accuracy of weather forecasting and provide better meteorological services to countries participating in the Belt and Road Initiative. The Fengyun-2H was launched on a Long March-3A rocket from the Xichang Satellite Launch Center in southwest China's Sichuan Province. A geostationary orbit satellite, Fengyun-2H is the last in the Fengyun-2 series. The Fengyun-4 series will dominate China's new generation geostationary orbit meteorological satellites, said Zhao Jian, deputy director of the Department of System Engineering of China National Space Administration (CNSA). In response to a request from the World Meteorological Organization (WMO) and the Asia-Pacific Space Cooperation Organization (APSCO), the position of Fengyun-2H will be changed from original 86.5 degrees east longitude to 79 degrees east longitude. This means the Fengyun series satellites will be able to cover all the territory of China, as well as countries along the Belt and Road, the Indian Ocean and most African countries, according to the CNSA. Equipped with a scanning radiometer and space environment monitor, Fengyun-2H will provide real time cloud and water vapor images and space weather information to clients in the Asia-Pacific region, said Wei Caiying, chief commander of the ground application system of Fengyun-2H and deputy director of the National Satellite Meteorological Center.

India Approves 1.5 Billion USD for Space Program

June 6, 2018 - The Indian government approved 1.5 billion U.S. dollars for the country's space program on

Wednesday, in what is seen as a major step to reduce its dependence on foreign spaceports to launch heavier satellites. The approval was given by the Indian Cabinet, chaired by Prime Minister Narendra Modi. According to the minister, the GSLV Mk III program is an indigenous program that will enable India's state-owned space agency to launch foreign satellites of over 4 tons of weight. Indian Space Research Organization's chief K. Sivan has termed the development as "the happiest moment for all of us" in the space agency. In February this year, India launched 31 satellites in a single mission from the southern spaceport of Sriharikota. A year earlier, it launched 104 satellites in a single mission.

ICEYE Raises \$34M in Series B Financing and Confirms Nine Satellite Launches by End of 2019

June 8, 2018 - ICEYE, an Earth observation company providing synthetic-aperture radar (SAR) data, announced \$34M Series B funding led by return investor True Ventures and supported by Draper Network VC funds and others. Building on ICEYE's recent aerospace industry achievements, the Finland-based SAR data company will use the new capital to expand its custom analytics services for its growing customer base, further develop its SAR satellite technology, as well as fund additional launches of ICEYE SAR satellites. ICEYE's Series B funding round includes financial backing from previous investors True Ventures, Draper Nexus, Draper Associates, Seraphim Capital and Space Angels. The funding round is joined by new ICEYE investors OTB, Tesi, Draper Esprit and Promus Ventures. To date, ICEYE has raised a total of \$53M, including government financing from Finland and the EU's Horizon 2020 program. Following the January 2018 launch of ICEYE-X1, ICEYE is launching two additional satellites this year. ICEYE is aiming for a total of 9 upcoming satellite launches by the end of 2019 and is actively seeking out launch operators to continue the company's rapid acceleration towards the future.

Harris Corporation Delivers Advanced Environmental Monitoring Sensor for Japanese Satellite

June 13, 2018 - Harris Corporation has delivered an environmental monitoring sensor for the Greenhouse Gases Observing Satellite-2 (GOSAT-2), which will significantly enhance Japan's ability to monitor greenhouse gases from space. The Harris-built TANSO-FTS-2 (Thermal and Near Infrared Sensor for Carbon Observation-Fourier Transform Spectrometer-2) will measure greenhouse gases in the atmosphere. The newly built instrument will collect high-spectral resolution data of the Earth in five bands, which enables measurement during daylight and darkness. The instrument's unique intelligent pointing system identifies, in real time, cloud-free areas of the atmosphere - greatly increasing the amount of useable data. Harris provided the sensor to Mitsubishi Electric Corporation, which is building the satellite for the Japanese Aerospace Exploration Agency. The satellite is scheduled to launch in Japan's 2018 fiscal year. This represents the third instrument Harris has delivered to Japan in recent years, including two advanced imagers for the Himawari-8 and 9 weather satellites, which launched in 2014 and 2016.

ESA Council Decides on Completion of Ariane 6 and Start of Transition from Ariane 5 to Ariane 6

June 14, 2018 - The ESA Council met today in Paris to discuss the path towards the future exploitation of Ariane 6. In view of the progress made in the Ariane 6 programme, Participating States have decided on the completion of the development up to full operational capability and agreed to fund industrial incentives associated with the development of Ariane 6 and P120C solid rocket motor. Participating States also committed to start with the first step of the Ariane 6 and P120C Transition Programme. This programme supports the evolution from Europe's Ariane 5 to full operational capability of Ariane 6. Ariane 6 is Europe's new-generation launcher, designed to secure guaranteed access to space for Europe at an affordable price for European institutional users. It will operate in two configurations: Ariane 62 is fitted with two P120C strap-on boosters while Ariane 64 has four. Ariane 6's maiden flight is planned for mid-2020. P120C is the largest carbon-fibre solid propellant booster ever built in one segment at almost 13.5 m long and about 3.4 m in diameter. Two boosters will be used on Ariane 6's maiden flight in 2020.

China Launches New Earth Observation Satellite

June 16, 2018 - China launched a new Earth observation satellite, Gaofen-6, which will be mainly used in agricultural resources research and disaster monitoring. The Gaofen-6 was launched on a Long March-2D rocket on June 16 from the Jiuquan Satellite Launch Center in northwest China. A scientific experiment satellite named Luojia-1 was sent into space at the same time. It was the 276th mission of the Long March rocket series. Developed by China Aerospace Science and Technology Corporation, it will form a constellation with other Gaofen satellites in orbit.

Russia Launches Glonass-M Navigation Satellite

June 17, 2018 - Russia successfully launched a Glonass-M positioning satellite Sunday using a Soyuz-2.1b

carrier rocket, the Russian Defense Ministry said in a statement. The Space Forces, a branch of the Aerospace Forces, launched the satellite from the Plesetsk space center. The pre-launch procedures and the launch itself went as planned, the statement added. The Glonass network provides real-time positioning data for surface, sea and airborne objects around the globe, at an accuracy reportedly on par with the U.S. Global Positioning System. With Sunday's launch, there are now 26 Glonass satellites in orbit.

GomSpace and A&M Enter MoU regarding Delivery and Operation of a Global Constellation

June 18, 2018 - GomSpace and Aerial & Maritime (A&M) have signed a MOU following A&M's decision to appoint GomSpace as the supplier of a global constellation of nanosatellites and ground segment systems. Fully operational by the end of 2021 A&M is able to provide global Air Traffic Surveillance increasing safety and reducing fuel consumption to the airline industry, including air navigational service providers. The system shall deliver processed ADS-B signals – compliant with ICAO and EUROCAE requirements for air traffic management. The terms and conditions of any future formal cooperation between the parties as to the subject matter of the MOU are yet to be negotiated and agreed upon. The parties expect to enter a formal turnkey contract in Q4 2018. The turnkey contract will have a value of up to 100 million USD.

Rocket Lab Confirms Three Launches with Spaceflight

June 18, 2018 - Rocket Lab, a US orbital launch provider for the small satellite industry, announced a partnership with satellite rideshare and mission management provider, Spaceflight, for three orbital launches across 2018/19. The first mission, scheduled for the end of 2018, will launch a BlackSky microsat along with several rideshare customers. The second launch will be a commercial rideshare mission in early 2019. Rocket Lab and Spaceflight have also signed a letter of agreement, which is expected to be finalized in the next few weeks, for a third mission to fly a Canon spacecraft in late 2019. The three-launch deal cements Spaceflight's first missions aboard the Electron launch vehicle. The missions join a busy manifest that will see Rocket Lab launch monthly by the end of 2018, scaling to a launch every two weeks in 2019. One of the Electron missions will loft an Earth observation satellite for Canon Electronics. This spacecraft follows on from Canon Electronics' experimental CE-SAT-I which was launched in 2017.

PLD Space and Telespazio VEGA Sign MOU to Provide Suborbital Flight Opportunities from Europe on-board Arion 1

June 18, 2018 - PLD Space and the German space company Telespazio VEGA Deutschland have signed an MoU to provide suborbital flight opportunities from Europe on-board the suborbital rocket ARION 1, which is being developed by PLD Space. For several years, a new spaceflight industry has been growing to exploit high flight frequency and relatively low-cost markets. Among the companies leading such initiatives are PLD Space and Telespazio VEGA Deutschland. Both companies are pioneering efforts to provide the first private suborbital launch service in Europe by 2019. Historically, access to suborbital space platforms that provide high quality microgravity environments in Europe has been limited, costly, and bureaucratic. Nowadays, it is only possible to achieve this through institutional programs, which can be time consuming as well as limited in the number of launch opportunities; usually offering one or two launches per year.

Team from Mauritius Selected for KiboCUBE Cooperation Programme

June 19, 2018 - The Japan Aerospace Exploration Agency (JAXA) and the United Nations Office for Outer Space Affairs (UNOOSA) have been cooperating under the KiboCUBE programme launched in 2015 to provide opportunities to deploy CubeSats from the Japanese Experiment Module "Kibo" of the International Space Station (ISS). JAXA and UNOOSA have selected a team from the Mauritius Research Council for the third round of KiboCUBE, which called for applications from September 26, 2017 to March 31, 2018. Due to the large number of applications for the third round, UNOOSA and JAXA have agreed to find an additional opportunity for a second entity from the third round applicants. The selection will be announced in northern hemisphere fall timeframe in 2018.

European Industry Gears up for Vega-C Debut in 2019

June 21, 2018 - With just one year before Vega-C lifts off from Europe's Spaceport in French Guiana, preparations for Europe's next launcher are gaining momentum. Vega-C will increase performance from Vega's current 1.5 t to about 2.2 t hauled to its reference 700 km polar orbit, with no increase in launch costs. Thrust in the first phase of flight comes from new solid-fuel first and second stage motors, P120C and Zefiro-40 respectively. P120C's upcoming first hot static-firing test at Europe's Spaceport will prove the design, new materials, techniques, tools and components. Developed by Europropulsion under

contract to Avio and ArianeGroup, P120C is 13.5 m long and 3.4 m in diameter – the largest solid-propellant motor ever built in one segment. Two or four will also be used for Ariane 6.

SSL Ships First of Three Satellites Scheduled to Launch on the SpaceX Falcon 9 This Summer

June 21, 2018 – SSL announced it shipped the first of three satellites that SSL will deliver to the SpaceX launch base at Cape Canaveral Air Force Station in Florida over the next month. Driven by commercial advances, the three satellites will bring communications capability to connect people and transform lives around the globe. Telstar 19 VANTAGE, an advanced high throughput satellite (HTS) built for Telesat, one of the world's leading satellite operators, marks the 50th SSL-built communications satellite to launch this decade. Two more SSL communications satellites are scheduled to ship to SpaceX launch base over the next month including a second HTS for Telesat, Telstar 18 VANTAGE, and the Merah Putih satellite (previously known as Telkom-4), for Indonesia's largest telecommunication and network provider, PT Telkom Indonesia (Persero) Tbk.

RSC Energia Working on a New Electrical Rocket Engine

June 21, 2018 - RSC Energia specialists have patented a system of iodine storage and feeding for an advanced electrical rocket engine (ERE). The idea to use pure reactive iodine as the so-called working medium of an engine – the substance needed to generate propulsive thrust – was put forward as early as 1990s by a senior research scientist of the Corporation Valeri Ostrovsky. In 2006 he took out the initial patents. A research effort on this subject began in 2012 upon an initiative of Boris Sokolov, an outstanding domestic propulsion expert, an honored veteran of Energia. First tests using a standard plasma thruster demonstrated the feasibility of using iodine: the thruster equipped with an additional gas distribution device, was started using xenon, while iodine kept up the discharge. After that designers proceeded with the development of the iodine supply system, which was eventually patented. The advantage of the iodine thruster consists, first of all, in its cost efficiency. Existing electric thrusters traditionally use as propellant xenon, which is significantly more expensive than iodine. In addition to this, xenon storage and feeding system is fairly complex and bulky, which significantly increases the size and mass of the propulsion system. Another important aspect is that the amount of the industrial output of xenon is insufficient to meet the future challenges of spaceflight, such as lunar missions.

mu Space Issues Proposal Request to Build a Satellite Covering Asia-Pacific

June 25, 2018 - mu Space Corp has approved the release of a Request for Proposal (RFP) for a manufacturer to build the company's satellite with coverage spanning across Asia-Pacific. The high throughput satellite will be on a geostationary orbit (GEO) location at 50.5-degree East, an orbital slot secured on a recent agreement between mu Space and SES, the world's leading satellite operator. It is expected to provide broadband and Internet of Things (IoT) service via satellite, and will have a lifespan of at least 15 years. According to mu Space's plan, the company will launch its own satellite in the early 2020s aboard New Glenn, a space vehicle of US-based aerospace manufacturer Blue Origin.

Virgin Orbit's LauncherOne to Join Spaceflight's Growing Portfolio of Launch Vehicles for Small Satellite Rideshare

June 25, 2018 - Spaceflight, the company reinventing the model for launching small satellites into space, and Virgin Orbit announced they have signed a Memorandum of Understanding (MoU) for a mission to Low Earth Orbit (LEO) in 2019. Virgin Orbit's Cosmic Girl, a dedicated 747-400 carrier aircraft, will carry LauncherOne (which will house Spaceflight's customer smallsats) to an altitude of approximately 35,000 feet before release for its rocket-powered flight to orbit. The two-stage expendable rocket, which is currently in the final stages of qualification, can place about 300-500 kilograms into orbit. Virgin Orbit aims to conduct multiple missions to LEO in 2018. Spaceflight has launched more than 140 satellites to date from a variety of launch vehicles including Falcon 9, PSLV, Dnepr, Antares, and Soyuz. It recently announced agreements for launches on Electron, Vega, and now LauncherOne.

EXECUTIVE MOVES

Ina Lui Joins AsiaSat as VP of Business Development & Strategy

June 1, 2018 - AsiaSat has announced that Ina Lui has been named Vice President of Business Development and Strategy, responsible for driving new business and strategic initiatives for the company. Ina brings over 25 years of experience in the satellite, telecommunications and technology sectors,

covering areas in sales, marketing, product and business development. She has worked in Singapore, South China and Hong Kong, and has held senior management positions at ABS, Intelsat, PanAmSat and Hong Kong Telecom. Prior to joining AsiaSat, Ina was at ABS as Managing Director, Sales Asia Pacific where she was responsible for sales and business initiatives for the region. Ina holds a Bachelor of Arts degree in Business Studies from the City University of Hong Kong.

MDA Appoints Chris Pogue as President of MDA Government

June 12, 2018 - MDA announced the appointment of Chris Pogue to serve as President of the newly created division, MDA Government. In addition, MDA has announced an organizational shift to better align with the market and customers' needs. Mr. Pogue assumes responsibility for taking MDA Government to the next level of growth and profitability and will report to Mike Greenley, the Group President of MDA. Mr. Pogue will have responsibility for the following lines of business; Defence, Earth Observation Systems, Enterprise IT, and Government Space Robotics. Most recently, Mr. Pogue served as Vice President, Mission Systems International and Vice President Public Safety and Security Solutions at General Dynamics Mission Systems where he has worked for 8 years. Prior to General Dynamics, Chris was President of CAE Defence and Professional Services. Prior to joining the private sector, Chris had a very successful 18 year career in the Canadian Air Force.

Firefly Aerospace Welcomes Leslie Kovacs as Vice President of Business Development

June 13, 2018 - Firefly Aerospace has announced that Leslie Kovacs has joined Firefly as Vice President of Business Development. Kovacs has over 30 years of space launch industry experience, most recently at United Launch Alliance (ULA) as Director of Executive Branch affairs where he helped shape federal policy and acquisition approaches for the \$57B Evolved Expendable Launch Vehicle (EELV) program. Kovacs will be based in Firefly's Washington D.C. office.

Dave Ryan to Lead Viasat's Space Systems Business

June 20, 2018 - Viasat Inc. announced Dave Ryan will lead the Company's Space Systems business, effective immediately. Ryan will provide strategic guidance and oversight for the satellite system design, fabrication, test and operations of Viasat's highly-technical and complex global satellite constellation roadmap. In addition to leading overall spacecraft development, Ryan will also lead the teams focused on satellite and launch system procurement and partnerships. Dave Ryan joined Viasat in 2016. He brought a wealth of experience leading programs, teams and businesses in the space systems industry, having served as President of Boeing Satellite Systems International and having held similar senior-level roles at Northrop Grumman.

REPORTS

In-flight Connectivity to Generate \$37 Billion in Next Decade

June 4, 2018 - NSR's Aeronautical Satcom Markets, 6th Edition report forecasts inflight connectivity (IFC) will generate \$37 billion in cumulative revenue by 2027. This revenue will be driven primarily by new HTS services and greater penetration in all regions of the world. NSR projects demand will reach almost 295 Gbps of HTS capacity and more than 92 transponders of FSS Ku-band demand by 2027. NSR estimates only one-quarter of all IATA-registered airlines had some type of passenger IFC under contract at the end of 2017. HTS capacity deals signed in the last 3 years are starting to roll-out across fleets of both wide-body and narrow-body aircraft. However, a slower than expected pace of installs delayed revenue generation as margins suffer in the face of lower capacity prices and airlines wanting in on 'sharing the savings'.

The IoT Platform Market Entered a Consolidation Phase

June 15, 2018 - According to a new research report from the IoT analyst firm Berg Insight, the global market for IoT device management and application enablement platforms reached US\$ 1.1 billion in 2017. Growing at a compound annual growth rate (CAGR) of 36.2 percent, the total market value is expected to reach US\$ 4.9 billion in 2022. IoT platforms provide middleware to connect and manage devices and integrate collected data into various applications and services. These platforms are intended to reduce the cost and development time for IoT solutions by providing standardized components that enterprises can build upon. The IoT platform market is notably crowded and hosts a multitude of players spanning from small start-ups to major companies in the technology and industrial sectors. These companies have developed offerings that typically have a specific focus on a set of capabilities, often related to their core

businesses. GE and PTC spearheaded the effort of promoting IoT in the industrial sector on a broader scale.

Over 60% of Commercial Aircraft to be Connected by 2027

June 19, 2018 - According to Euroconsult's newly release report, Prospects for In-Flight Entertainment & Connectivity, over 23,000 commercial aircraft will offer connectivity to their passengers by 2027, up from 7,400 aircraft in 2017. The increase in connected aircraft and in bandwidth consumption per passenger will support growth. To that respect, the ability to support video streaming on a large scale shall be a game changer. The revenue per aircraft per year shall constantly rise in the coming years to match the ever-increasing need for bandwidth. Still, the need to improve profit margins, and to benefit from economies of scale, shall favor vertical integration and consolidation in the IFC value chain. Competition will be strong between leading suppliers and new entrants, with our research benchmarking the positioning of main market players including Panasonic Avionics, Gogo, Thales InFlyt, Global Eagle, Inmarsat and ViaSat.

WTA Releases Cloud Services for Teleport Operators

June 28, 2018 - WTA (World Teleport Association) releases its new market report 'Cloud Services for Teleport Operators.' It explores the opportunities that partnership with cloud service providers can offer teleports, the technical and policy requirements for interconnection, and what cloud service providers want from their outside partners. It also explores the competitive threat that cloud operators present and how teleport operators can best respond.

Maritime SATCOM Markets to Generate \$4.7 Billion in Annual Revenue by 2027

July 2, 2018 - NSR's Maritime SATCOM Markets, 6th Edition report, published today, forecasts Maritime SATCOM will generate \$36 Billion in cumulative revenues through 2027. Driven by the migration of unconnected vessels to MSS, MSS customers to VSAT, and VSAT vessels to even higher throughputs, revenue growth will approach 7% from 2017 - 2027.

UPCOMING EVENTS

APSAT 2018, 3-4 July, Jakarta, Indonesia, <http://assi.or.id/en/>

World Satellite Business Week, 10-14 September, Paris, France, <http://www.satellite-business.com/en>

IBC 2018, 14-18 September, Amsterdam, the Netherlands, <https://show.ibc.org/>

VSAT Global 2018, 18-21 September, London, U.K., <https://tmt.knect365.com/vsat-global/>

Myanmar Connect 2018, 19-20 September, Nay Pyi Taw, Myanmar,
<http://www.capacityconferences.com/Myanmar-Connect>



APSCC 2018 Satellite Conference and Exhibition, 2-4 October 2018, Jakarta, Indonesia,
<http://apscsat.com>

APSCC 2018 Youth Development Workshop, 4 October 2018, Jakarta, Indonesia,
<http://apscsat.com/workshop/>

Satellite Innovation 2018, 9-11 October 2018, Silicon Valley, CA, USA,
<https://2018.satelliteinnovation.com/>

VSAT Congress 2018, 15-16 October, Washington D.C., USA, <https://www.vsatcongress.com>

Broadcast Indonesia 2018, 24-26 October, Jakarta, Indonesia, www.broadcast-indonesia.com

Global MilSatCom 2018, 6-8 November, London U.K., <https://www.smi-online.co.uk/defence/uk/global-milsatcom>

Asia-Pacific Regional Space Agency Forum (APRSAF-25), 6-9 November, Singapore, https://www.aprsaf.org/annual_meetings/aprsaf25/meeting_details.php?mail159

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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.