

Appointments

Director of Sales Asia Ross Video

CAN: Ross Video has promoted Mark Cooke to the role of Director of Sales for Asia.

Cooke said: "The Asia team has delivered solid performance over the last few years, and we've expanded very quickly in key territories such as China and Japan. Asia remains a vibrant and strategically important region for Ross, and I have a clear mandate to continue adding talent to the team and expanding our market share across both our traditional and developing market verticals".

He has relocated to Singapore, where he will guide Ross Team Asia through the next phase of the team's development.

Most recently, Cooke was Regional Sales Director for EMEA North and was living in the Netherlands.

Xytech Appoints EMEA VP & Director

GBR: Xytech has named Matt Waldock as VP and Director of Business Development, EMEA at Xytech's UK office in London.

Waldock will further develop the relationships of Xytech's existing clients in the EMEA region, while expanding Xytech into new markets across EMEA.

Greg Dolan of Xytech, said: "The European market is our fastest growing market geography, and Matt's experience will make sure Xytech continues to stay ahead of the curve and anticipate our clients' needs."

Waldock, who previously served as a director at Xytech, has worked in the UK's broadcast industry for 25 years, including positions with ITV and Deluxe Media Europe.

Waldock's experience with Xytech's products will help him better tailor the company's solutions to a wide variety of client needs.

Middle-East & Africa Digigram BDM

MEA / FRA: Digigram has appointed Aditya Panikker as Business Development Manager with the responsibility of expanding its business in the Middle-East and Africa.

Commenting Panikker said: "Digigram has been developing industry-leading audio solutions for over three decades and this rich experience extends all the way to the way we understand our customers and the relationship we establish with them. In an increasingly competitive, price-sensitive and quality conscious market, the overall customer experience will always reign and I am confident that our team is ready for this challenge."

Panikker is based at DIGIGRAM HQ in Grenoble, France.

Audioguy Studios Goes Immersive With Genelec

Audioguy Studios in the heart of Seoul has chosen a Genelec 7.1.4 monitoring system to fully embrace immersive recording techniques.

Jung-Hoon Choi, Founder of Audioguy Studios, said the intention is to produce music with a unique and colourful sound of a main recording space with a reverberation time of 2.7 seconds similar to a concert hall.

Choi explained: "We can record using an ambisonic microphone to capture the immersive atmosphere, and spot mics to capture the individual instruments. However, the ambisonic and spot mics tend not to blend well together, so we have tried to separate the two different microphone

configurations by using the ambisonic mic to cover the .4 channel content, as well as the rear channel source. The front and side sources are then covered by the additional spot mics next to the instruments in order to capture the unique and atmospheric feel of the content."

The results of this process are monitored and mixed using Genelec coaxial Smart Active Monitors, supplied by Genelec's local Korean distribution partner Sama Sound.

The system comprises three 8351As



Audioguy Studios

as LCR, eight 8331A monitors as surrounds and overheads - with a 7370A subwoofer handling LF duties.

The system is configured, calibrated and controlled using Genelec GLM software.

Barix Partners Digigram Asia For Distribution



Digigram Asia Pte Ltd and Barix have announced their exclusive partnerships in several countries of the APAC region (Singapore, Malaysia, Indonesia, Vietnam, Cambodia, Laos, Philippines, Myanmar, and South Korea) bringing customers the best alliance for products and support resources.

"Digigram Asia Pte Ltd is taking another step in its expansion strategy by adding Barix to its existing agreements with Auvitran and

Streamguys.

"We will be able to provide extended service and additional value to our customers. Barix has the perfect combination of cost-effective yet reliable products and we are excited to start this partnership in 2020." says Nancy DIAZ CUREL, Managing Director of Digigram Asia.

Under this agreement, Digigram Asia Pte Ltd will distribute the entire Barix product line, including the new SIP Opus codec.

"We are happy to be able to work with Digigram as our new distribution partner for Asia," said Reto Brader, Barix CEO. "Digigram's knowledge of the audio over IP market combined with Barix cost-effective solutions for radio broadcast, intercom, and paging as well as audio streaming will give Asian customers access to better solutions for their audio over IP needs."

The partnership deal on distribution was enacted February 1, 2020.

Compact dLive Solutions For Road Race

Event architects Moon Mother Productions (MMP), based in Melbourne, Australia, turned to Allen & Heath for the Cadel Evans Great Ocean Road Race (CEGORR), deploying a number of Qu, SQ and dLive systems to provide live and broadcast feeds.

Set in the iconic surf town of Torquay and hosted by the 2011 Tour de France winner Cadel Evans, the four-day event sees some of the world's fastest cyclists compete.

Stocking one of the largest hire inventories of A&H consoles and accessories in Australia, MMP rely exclusively on them for a range of events.



Geelong Race Winners

A dLive system was placed in an isolated cabin in the backstage compound; comprising a dLive S5000, which tackled FOH and monitor duties for the main stage, paired with a DM48 MixRack and two DX168s fitted with super MADI I/O cards, which fed comms & streaming.

The system was also used to link to four other systems around the site, enabling feeds to be shared between

independent setups for live entertainment and commentary, background music, broadcast, AV and live streaming.

Due to the nature of the event, a range of compact mixing solutions were



dLive in prep for Cadel Evans Great Ocean Road Race (CEGORR)

also required, thanks to their minimal footprint, several SQ and Qu systems were utilised on site.

Singapore Should Embrace Automation for its Next Stage of Growth

An advanced economy with a low birth rate, Singapore needs to adopt an 'automation first' mindset to drive its next stage of growth...

By: Malina Platon,
Managing Director,
ASEAN Region, UiPath



Singapore, by most measures, is enjoying many of the trappings that come with being an advanced, developed economy. Low unemployment (around 2.1% in 2018), high GDP per Capita, high levels of education, low crime *etc.* It also suffers from a number of pitfalls, too, notably lower growth than its less developed neighbours, higher exposure to global economic and geopolitical trends thanks to its more open economy, a lower birth rate and higher prices.

Last year, the number of babies born in Singapore fell to its lowest in eight years with 39,039 babies born, a 1.5% drop from 2017. This comes at a time when the Singapore economy is starting to experience the side-effects of the US-China trade war and the results of the global economic slowdown - particularly with trade.

Another Asian country that is similar in many ways to Singapore is Japan. With a stagnant birth-rate and declining population, the country's growth in the 90's was at least 1.5% slower than the rest of the world resulting in economic stagnation, known as the 'Lost Decade' (though it should be two decades, from 1990 to 2010).

Following an economic crash in the early 90's the country's growth slowed and it took on considerable debt largely thanks to social welfare spending on its aging population. This was exacerbated by its shrinking

tax base thanks to low birth rates and declining population. The consequences were a decline in GDP from \$5.33 trillion to \$4.36 trillion in nominal terms and real wages falling by about 5%.

While Singapore today is very different to Japan of the early 90's - it is arguably in a much better position - we should still look to learn from Japan. The most obvious area is low population growth and how to generate economic growth with an aging population.

Technology Benefits

First on Singapore's list is automation and leveraging automation technologies to both address productivity issues arising from an aging and/or declining population and generate more economic growth. Technological innovation and advancement can be disruptive and there are a number of new, powerful technologies emerging that will transform companies. However, those firms that resist automation inevitably fall by the wayside, but most importantly, an advanced economy such as Singapore with an educated workforce will be best positioned to reap the benefits automation brings.

Singapore already has a good record on workplace automation. According to the survey, The Global Future of Work, automation is expected to perform almost 30% of all work done

by Singaporean firms by the end of 2020. That figure was just 7% in 2014 so automation growth has risen considerably.

One of the main obstacles to the wider adoption of automation is the perception that this can lead to widespread job losses. Headlines about robots stealing jobs and a dystopian future where humans are subservient to robot 'bosses' usually catch our attention but are rarely accurate. Not only will automation technologies not take away Singaporeans' jobs, but it will make work better.

For example, Japan's Sumitomo Mitsui Banking Corporation (SMBC) deployed Robotic Process Automation (RPA) to automate a number of tasks and processes. It is estimated that they automated over 3 million-man hours over three years, yet without any forced layoff.

Significantly though, work is getting better because of automation. One of the main causes of long-term stress is boredom and there are few things more mind-numbing than doing rote, repetitive tasks such as data entry, or manual rules-based work on a factory floor.

Ask a Singaporean if they're excited about automation and they may have reservations. Ask a Singaporean what tasks they find boring at work and whether or not they would like these tasks automated and my guess is they will respond with a resounding yes.

Importantly for Singapore, automation will allow employees to be more productive as it enables them to do more value-added work that involves creativity and innovation. A more productive workforce will allow it to grow economically with the same number of workers.

Automation Partnerships

Yet in order to enable this we must start inculcating an 'automation first' mindset earlier, in our schools and universities.

Students need to understand that robots will not replace them, rather they will allow them to do more and better things. It is therefore imperative that schools and universities teach and build skills among their students from a young age, something that is already starting to happen thanks to partnerships with leading universities in Singapore.

These partnerships will allow the workers of tomorrow to be taught how to work alongside robots in the workplace, positioning them for more success in the automated economy of the future.

Lastly, we need to encourage more communities and ecosystems of businesses and experts / developers. While automation technology may be complex we should make it more accessible by connecting those who use and benefit from this technology (businesses, governments *etc.*) with those who are driving the technology forward (developers *etc.*).

With recent news surrounding Singapore's lower GDP growth figures thanks to the US-China trade war now is a good time to think how we should equip ourselves for an economy that will only get more complex. Artificial Intelligence (AI) and other technologies are here to stay and we should embrace automation and understand how it could continue our economic growth. ■



Shotoku To Showcase Next Phase Developments

At NAB, Shotoku will demonstrate its SmartPed Robotic Pedestal with Absolute Navigation options that will join self-contained and powerful pan/tilt heads, enhancements to control systems, and highly adaptable height drive...



Shotoku USA, Shotoku Broadcast Systems' North American operation, will launch the next phase in technical and operational developments for robotic control systems at NAB 2020.

The international manufacturer of high-quality, easy-to-use, robust and reliable robotic and manual camera support systems will demonstrate advancements that incorporate an IP interface into its flagship SmartPed robotic pedestal; a self-contained and easy to connect pan/tilt head; numerous enhancements incorporated into the Company's TR-XT control system and will also highlight its height drive and pan/tilt head ideal for legislative applications.

SmartPed Fully Robotic Pedestal

SmartPed with Absolute Navigation is perfect for those applications where referencing the fully robotic pedestal is inconvenient or the design of the studio leaves no scope for a floor tile reference position. SmartPed now comes with two optional additions depending on the environment - AN-I is an IP interface within SmartPed enabling it to interface to existing external optical tracking systems such as Mosis StarTracker or Stype RedSpy using the absolute tracking information to reference and adjust the pedestals own internal navigation systems. AN-S provides a full integrated solution, including the optical tracking system for situations where customers do not already have installed optical tracking.



Enhanced TR-XT Control System



TG-18i Integrated Pan/Tilt Head

Self-Contained, High Payload, Simple Connectivity: The TG-18i, the latest version of the hugely successful TG-18 studio pan/tilt head, provides a fully integrated head with high payload and simple connectivity. All the key features which have made the TG-18 so successful remain - such as perfect motion and full manual override with fluid damping - all in a new self-contained package.

TR-XT Control System

Get the Picture! The TR-XT Control System will be shown with multiple enhancements that will further expand the capabilities of this already powerful and intuitive control system.

LiveView

The TR-XT, the flagship control system of the Shotoku platform, will be demonstrated with the new LiveView option that uses a secondary IP video camera to provide a wide-angle scene view for each camera. LiveView enables operators to command heads to new positions simply by touching on a wide-angled live video view of the studio, smoothly repositioning the head towards the selected presenter, guest or other area of interest.

Studio Zones

Studio zones easily define areas within a studio into which cameras

may or may not travel. Zones have a dynamic understanding of studio equipment to avoid no-go areas and potential collisions. In addition to each SmartPed's unique on-board collision avoidance system, Studio Zones offers a higher level of control for the operator to ensure smooth and safe operation within the environment.

Full Automation

Shotoku will be showing its enhanced automation interfaces allowing not just pre-set shot recall but full camera adjustment on-the-fly from external systems, even including face-recognition and tracking systems. This advanced technology brings the concept of operator-less control into reality!

TG-27/MicroPDU

Power for the Powerful: The TG-27/MicroPDU pan/tilt head and power supply, the *de-facto* standard for Legislative TV systems, provides a high-end all over solution for any size legislature or conference system when used in conjunction with Shotoku's TR-S control panel and its fully automated Orchestra control system. In use every day at many of the world's highest profile national and regional legislatures, houses of worship and global corporate organizations.

TI-12 Elevator Unit

Going up? Shotoku's TI-12 elevator unit accommodates virtually any studio pedestal. The TI-12 Height Drive is the world's only truly adaptable height drive able to attach to and elevate columns on a wide range of pedestals, of other manufacturers and of different ages and designs in addition to Shotoku's own TP-200. Adding height control to a new or existing pedestal brings added value to customers who demand not only super-smooth robotic operation but need to maintain manual pedestal operation at the touch of a button.

"Shotoku's position as one of the world's most innovative robotic camera system developers is a result of the core robotics systems developed

over several years, but also the continual enhancement, expansion and adaptation we put into the products to ensure they continue to deliver the highest levels of performance, reliability and flexibility for our many clients around the world." explains James Eddershaw, CEO Shotoku USA. "This year, amongst numerous other enhancements, we are excited to show our extremely popular SmartPed pedestal with flexible Absolute Navigation options, as well as a host of other advancements developed to keep our customers competitive and successful."



Shotoku

Shotoku Broadcast Systems is an international leader in the manufacture and marketing of a full range of camera support products with emphasis on manual and robotic pedestals and pan/tilt heads for the television and legislative broadcast industry.

Shotoku USA sells, installs and services the full range of Shotoku Robotic Camera Systems designed and developed in the UK by Shotoku's word-wide robotics HQ based near London, England. ■

"We are excited to show our extremely popular SmartPed pedestal with flexible Absolute Navigation options, as well as a host of other advancements"



James Eddershaw, Shotoku



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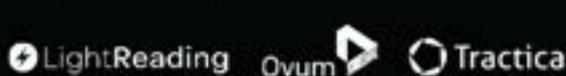
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Comtech Receives \$8.8M Contract

Comtech Xicom Technology, Inc., which is part of Comtech's Commercial Solutions segment, received a contract valued at more than US\$8.8 million for Ka-band Solid-State amplifiers to be used in an In-Flight Connectivity Satcom application.

"We have incorporated the latest Gallium Nitride (GaN) solid-state technology for use in a new cabin external application. We have shipped over 2,000 airborne amplifiers to date, and we continue to expand our presence in this growing market," said Fred Kornberg, Chairman of the Board and Chief Executive Officer of Comtech



Telecommunications Corp.

Comtech Xicom Technology, Inc., a world leader in high-power amplifiers, manufactures a wide variety of tube-based and solid-state power amplifiers for military and commercial satellite uplink applications.

The product range encompasses power levels from 8 W to 3 kW, with frequency coverage in sub-bands within the 2 GHz to 52 GHz spectrum. Amplifiers are available for fixed and

ground-based, shipboard and airborne mobile applications.

Comtech Xicom Technology, part of the Comtech Telecommunications Corp., is headquartered in Silicon Valley in Santa Clara, CA, and has offices in Virginia, Florida, Illinois, the United Kingdom, China UAE, and Singapore. There are also eleven certified service centres worldwide and sales offices around the globe.

Comtech Telecommunications Corp. designs, develops, produces and markets innovative products, systems and services for advanced communications solutions.

The company sells products to a diverse customer base in the global commercial and government communications markets.

Advantech In Partnership With TXMission

Advantech Wireless Technologies has signed a sales and distribution agreement with the California and Watford, England based TXMission, a designer and manufacturer of high performance SmallSat modems for the New Space Industry.

The companies will together develop a comprehensive suite of SmallSat, Airborne and Comms-On-The-Move (COTM) communication products for markets requiring versatile, extremely low size, weight and power (SWaP) products that provide leading-edge performance.

The range of fully integrated SmallSat and UAV/Airborne products

to be developed will include advanced RF transceivers, multi-gigabit modems for onboard and ground segment applications, low SWaP satellite terminals, antennas, network management systems and 5G technology solutions.

John Restivo, President of Advantech Wireless Technologies is pleased to announce the partnership with TXMission, a professional off-the-shelf, end-to-end satellite communications company.

"Advantech plans to integrate our microwave RF technology with the TXMission modem, resulting in a system level solution that



will work across multiple Satcom markets. We are certain this relationship will present new opportunities for Advantech."

Steve McHugh, Chairman of TXMission, stated: "This is an exciting development that combines our unique SDR technology with Advantech's renowned RF capabilities."

TXMission is a New Space company that has developed an advanced Software Defined Radio (SDR), compatible ground equipment and network management systems for the SmallSat and airborne communications markets.

SatADSL PaaS Offering In Americas

SatADSL, a provider of professional connectivity services via satellite (VSAT), has announced it will be launching a new PoP in Miami, Florida in March this year.

SatADSL will provide operators in the American region with access to its Cloud-based Service Delivery Platform (C-SDP). The first-of-its-kind platform enables operators to deliver satellite services via the cloud without adding extra latency on top of that inherent to geostationary satellite communication.

"Following the launch of its Platform-



as-a-Service (PaaS) offering, SatADSL has experienced amazing success and growth in the market. The range of services we offer, including the ability to provide pre-paid voucher-based services and the ability to allow customers to easily operate as a Virtual Network Operator (VNO) without Capital Expenditure (CAPEX), has triggered the interest of teleports as well as satellite and service operators from various global regions," said Fulvio Sansone, Chief Technology Officer at SatADSL.

"In addition, the possibility offered

to teleports to seamlessly access third party satellite hubs via our platform enables them to extend their range of services and their geographic coverage without any investment and therefore without risk. Now, thanks to the new PoP in Miami, operators and users alike in the Americas will also benefit from SatADSL's C-SDP with optimal latency."

A Marlink teleport in South America will be the first to be connected to the Miami PoP.

It will use the SES 4 satellite with ST Engineering Dialog technology, to be integrated with the SatADSL's C-SDP.

ViaLite RF Over Fibre Product Launches



ViaLite will be launching a selection of new products when the company returns to the SATELLITE Show, in Washington D.C., this March.

ViaLite's new products offer improvements in dynamic range capabilities and for those working with low power RF signals or high losses in the fibre connection.

ViaLite's new L-Band HTS Hyper Wide Dynamic Range (HWDR) Series 2 link offers even greater dynamic range than the ground-breaking Series 1; now covering 400-2500 MHz with up to 115 dB/Hz²/3 spurious-free dynamic range.

"It is ideal for improving inter-modulation performance and reducing the minimum signal that can be detected in high optical loss environments," said Product Manager, John Golding. "This is extremely important in HTS and Signals Intelligence applications."

The new High Sensitivity Receiver (HSR), in turn, has been designed for high loss environments where there are lots of splices/interconnects or low quality fibre infrastructure. It mitigates the need for EDFAs, even working with CWDM and long distance systems. The HSR also covers a lower optical input range, accepting > 20 dB less than standard ViaLite receivers.

Golding described the HSR as a "get out of jail free card in situations where the infrastructure is particularly challenging".

The HSR is available in rack chassis card format.

Viasat & fuboTV In-Flight Streaming Video

Viasat and fuboTV have announced a video streaming distribution and technology partnership that advances how content can be delivered and consumed in-flight.

The partnership is the first to leverage innovative technology standards from the global technical association, the Streaming Video Alliance, and apply them to in-flight connectivity.

These standards enable airlines that sign-up for the Viasat/fuboTV partnership to seamlessly make fuboTV's live streaming premium OTT and VOD sports, entertainment and news programming available to all

passengers - at no charge - on U.S. flights equipped with Viasat satellite Internet.

As the first to implement the open caching specifications of the Streaming Video Alliance in-flight, Viasat and fuboTV are using multicast techniques to deliver live OTT and VOD content at-scale.

Specifically, the companies have implemented the Alliance specifications over Viasat's capacity-rich network, to optimise video delivery of fuboTV's live TV streaming service, including their free linear channel, fubo Sports Network.

This technology optimisation



In-flight connectivity deal

provides for more reliable live and VOD streaming with faster web page downloads and enhanced video streaming image quality - on any personal device connected to the Viasat network.

Participating airlines that choose to take advantage of the Viasat/fuboTV technology partnership will be able to give their passengers - whether fuboTV subscribers or not - free access to fubo Sports Network.



AfricaXP Chooses Eutelsat For DTH Satellite Services

AfricaXP has signed multi-year agreements with Eutelsat Communications for Ku-band capacity on two of its satellites, positioned at 16° East and 7° East.

This capacity will enable AfricaXP to extend the reach of its DTH free-to-air TV platform, Premium.Free.

Craig Kelly, CEO, AfricaXP, said: "Premium.Free has been entertaining viewers in Anglophone West Africa for the past year by providing a pay-TV quality experience to the public free-of-charge as an unencrypted satellite service. Eutelsat's 7° East

and 16° East positions offer us comprehensive geographic reach in Africa's key Western, Eastern and Southern markets where they serve large audiences. This has ignited a strong interest from our advertising partners."

"Eutelsat is delighted to be supporting AfricaXP in rolling out this multichannel free-to-air model across Sub-Saharan Africa. Moreover, this partnership reinforces the strength and desirability of these two orbital hotspots for the Sub-Saharan region, which are becoming increasingly

sought after by broadcasters," added Nicolas Baravalle, Director of the Sub-Saharan Africa region at Eutelsat.

Currently broadcast in West Africa, the platform will leverage the coverage of Eutelsat's 7° East hotspot to roll out a regionally customised offer of 23 channels across Eastern and Southern Africa.

In addition, AfricaXP will launch an inaugural, 10-channel French language bouquet from Eutelsat's 16° East position with its powerful footprint over French-speaking African countries.

NHK WORLD-JAPAN Joins Ethiosat Platform

SES has announced that NHK WORLD-JAPAN has launched on the Ethiosat TV platform. Bringing the total channel count of the bouquet to 43.

NHK WORLD-JAPAN is an international broadcast service of Japan's public broadcaster NHK and provides the latest news - NHK NEWSLINE - along with technology, lifestyle and entertainment programmes such as *great gear*, *Dining with the Chef*, *J-Arena*, and *Journeys in Japan*. In addition, the channel offers an assortment of documentaries and specials including *Asia Insight* and *NHK Documentary*.

The free-to-view Ethiosat platform, which already delivers a wide variety

of popular local content, was launched in October 2019. It is Ethiopia's first dedicated TV platform, delivering a high-quality viewing experience for viewers across the country.

The introduction of NHK WORLD-JAPAN ensures viewers will have access to quality international programming as part of their Ethiosat experience.

"International news is an important aspect of a channel package, and NHK WORLD-JAPAN is supporting the success of Ethiosat by joining the platform," said Abdikadir Awabdi, Regional Sales Manager, Eastern Africa, SES Video.



"SES continues to provide on-the-ground services to ensure the ongoing success of Ethiosat for viewer satisfaction.

Included in these services is the training of local installers to correctly repoint household satellite antennas towards the Ethiosat platform."

The growing offering of both local and relevant international content has been made possible by agreements between the Association of Ethiopian Broadcasters (AEB), the Ethiopian Broadcasting Corporation (EBC) and SES.

Ethiosat is hosted on SES's NSS-12 satellite at the orbital location of 57 degrees East.

Service Ends For Thaicom 5 Satellite

Thaicom has confirmed the successful migration of its customers from the Thaicom 5 satellite to Thaicom 6 and other satellites.

The company has worked to resolve the technical anomaly in order to ensure the continuity of services to its customers. The migration and service restoration were completed on 20 February. Meanwhile, the company completed the deorbiting of Thaicom 5 on February 26.



On December 17, 2019, Thaicom 5 experienced a technical issue causing limitations to monitoring the status of the satellite.

The company has performed several unsuccessful attempts to recover the satellite's technical incident ever since the anomaly occurred, resulting in the satellite manufacturer's opinion to deorbit the Thaicom 5 satellite. Thaicom 5 provided reliable satellite communication services for 14 years since its launch in May 2006.

The company informed its satellite television broadcast customers to migrate their television platforms from Thaicom 5 to Thaicom 6. Thaicom further informed the satellite television broadcast customers to communicate to the end-users to turn on the set top box for required automatic over-the-air update.

The anomaly is believed to be unrelated to Thaicom's project to extend fuel life of Thaicom 5 and develop new so-called "space drone" technology to attach the fuel system.



AMOS-17 and Get SAT Establish New Era for Mobile SatCom ISR

Spacecom, operator of the AMOS satellite fleet, and Get SAT, an innovator in small, lightweight satellite communication terminals for airborne, ground, and maritime applications, has revealed that using AMOS-17's steerable KA-band HTS beams and Get SAT's miniaturised Micro-SAT satcom terminals, they have successfully tested and demonstrated full mobile broadband satcom capabilities for ISR (Intelligence, Surveillance and Reconnaissance) applications.

Enabled by AMOS-17's powerful KA-band HTS beams and extremely small terminals at both ends, the team created a small footprint, high capacity true tactical solution for deployed units.

Get SAT's "micronized" efficient Micro-SAT terminal demonstrated a return channel of over 10Mbps, hence offering breakthrough SWaP (Size, Weight and Power) for broadband communications required by various ISR sensors. By using a transportable 1.2m. Ka-band hub and the powerful

capabilities of Spacecom's AMOS-17 digital payload, the team created an ideal configuration for Communications On-The-Move applications in the Middle East, Africa, Europe and Asia.

Kfir Benjamin, Get SAT CEO stated, "This news is incredible for a market that is starved for secure, nimble, mobile ISR. Get SAT's SWaP goes above and beyond current offerings. With AMOS-17's steerable KA-band HTS beams, Get SAT's miniaturized terminals produce extremely effective transmission and reception via a single small antenna.

"No longer does one have to seek miniaturized terminals for secure and reliable high data rates for tactical units using mobile platforms: we have them."

According to Eran Shapiro, Director of Business and Technology Ventures at Spacecom, "The test's amazing results demonstrate how AMOS-17's payload performance, advanced flexible digital processor platform and



Spacecom's AMOS-17 satellite



Get SAT Micro-SAT satcom terminal

optimal location at 17°E add value and open new opportunities for mobile ISR users. Get SAT's micronized terminals

are changing the mobile broadband communications landscape. When coupled with AMOS-17, we bring new vectors of flexibility and possibilities to commercial and government markets, while opening new markets."

Get SAT offers highly versatile, mobile solutions for applications requiring small terminals. Based on its patented InterFLAT panel antenna, a miniaturized interlaced antenna combining both receive and transmit elements on one panel, and fast-tracking technologies, its micronized terminals establish a new generation of standards for lightweight, small-sized and low power consumption communication devices for on-the-move applications.

AMOS-17's digital payload capabilities offer extensive C-Band HTS coverage, regional Ku-Band and steerable Ka-band HTS beams that can be combined to maximize throughput and efficiency. Its unique tri-band digital payload offers secure and resilient satcom solutions over major areas of interest. ■

EGNOS GEO-3 Payload Enters Service On Eutelsat 5 West B



Eutelsat Communications recently announced that the GEO-3 payload of the European Geostationary Navigation Overlay System (EGNOS), a hosted payload aboard its EUTELSAT 5 West B satellite, has successfully entered into service.

EUTELSAT 5 West B is hosting the Eutelsat-procured EGNOS payload under a 15-year agreement signed in 2017 with the European Global Navigation Satellite Systems Agency (GSA).

The contract also includes technical services and a European ground infrastructure, including two gateways installed at Eutelsat's Rambouillet and Cagliari teleports.

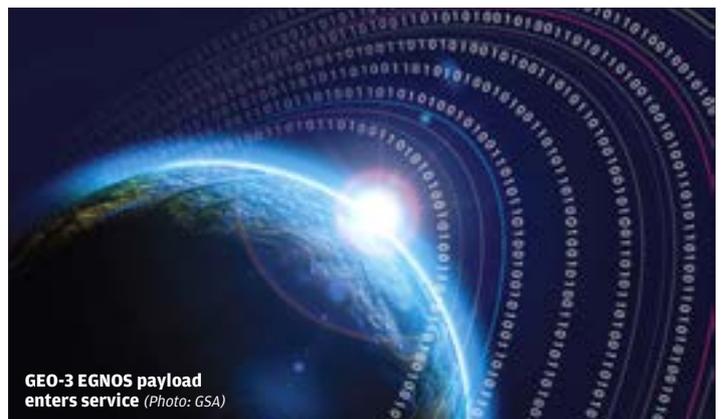
Yohann Leroy, Eutelsat's Deputy CEO and Chief Technical Officer, said: "Eutelsat is proud of the collaboration with its customer GSA, its partners including the European Space Agency, and its suppliers, culminating in the entry into service of this next generation technology of EGNOS on EUTELSAT 5 West B. We are delighted

to host this payload, which will significantly enhance the performance of global navigation satellite systems across Europe, notably Galileo, in the coming years."

Pascal Claudel, GSA Acting Executive Director and Chief Operating Officer, said: "With this new payload in service, EGNOS is moving towards the transition to its new generation. This has been done thanks to the constructive collaboration with Eutelsat. Delivery and continuity of satellite services are part of our mission as delegated by the European Commission. It is essential that we, at the GSA, ensure these services to support economic growth and that the European Union's citizens and companies can benefit from the latest GNSS technology."

EGNOS is Europe's regional satellite-based augmentation system (SBAS). It is currently used to improve the performance of GPS and will augment Galileo from 2025 onwards.

EGNOS was deployed to provide safety



GEO-3 EGNOS payload enters service (Photo: GSA)

of life navigation services to aviation, maritime and land-based users and is available since 2009.

EGNOS improves the accuracy and reliability of GNSS positioning information while also providing a crucial integrity message.

In addition, EGNOS also transmits an accurate time signal. The new payload will be the first step towards the deployment of the EGNOS next generation, EGNOS V3, providing an even higher level of performance and robustness, as required by the growing use and reliance on such services.

As an official European Union Regulatory Agency, the European GNSS Agency (GSA) manages public interests related to European GNSS programmes. The GSA's mission is to support European Union objectives and achieve the highest return on European GNSS investment, in terms of benefits to users and economic growth and competitiveness while ensuring the provision and the delivery of the EU satellite navigation services EGNOS and Galileo.

For more information, visit the GSA website: www.gsa.europa.eu ■