

# African Security

AFRICA'S BIMONTHLY DEFENCE, DEFENCE INDUSTRY AND SECURITY MAGAZINE

ISSUE: January – February 2022

VOL 9 No 1-2



**Bonus Distribution**



**WORLD  
DEFENSE  
SHOW**  
SAUDI ARABIA  
8-9 MARCH 2022

# STRONG SUPPORT



## AK-15

new generation assault rifle



**ROSOBORONEXPORT**

Russian Defence Export

27 Stromynka str., 107076,  
Moscow, Russian Federation

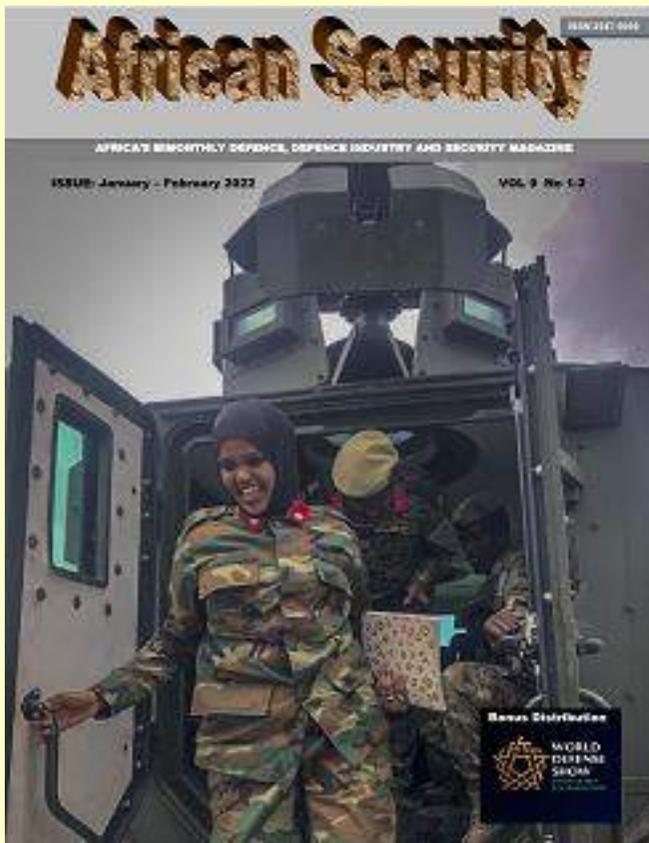
Phone: +7 (495) 534 61 83  
Fax: +7 (495) 534 61 53  
E-mail: roe@roe.ru

[www.roe.ru](http://www.roe.ru)

more info at  
**ROE.RU/ENG/**



Rosoboronexport is the sole state company in Russia authorized to export the full range of defense and dual-use products, technologies and services. Rosoboronexport accounts for over 85% of Russia's annual arms sales and maintains military-technical cooperation with over 100 countries worldwide.



Cover page photo © AFRICOM U.S. Embassy in Somalia

**Editor-in-Chief:**

Dimitrios Angelopoulos M. Sc.

**Editor:** Rear Admiral (rtd)

George Kypriotis

**Special Editor's Advisor:** Col (rtd) Michael Boampong

**Marketing & Sales:**

Dionysis Antonopoulos

**AFRICAN SECURITY** is an international tri-service bimonthly defence magazine, published by DBDC International Defence Publications & Events Ltd, covering security, defence and defence industrial issues in the African Continent. No material may be reproduced without the recent content of the editor.

**Annual Subscription rate:**

\*Print + Digital \$120 (Air mail surcharge is included)

\*Digital \$60



**DBDC INTERNATIONAL DEFENCE PUBLICATIONS & EVENTS UK LIMITED**

130 Old Street, London, EC1V 9BD, England, UK

E-mail: [dbdcukltd@gmail.com](mailto:dbdcukltd@gmail.com)

[www.dbdcukltd.com](http://www.dbdcukltd.com)

**DBDC INTERNATIONAL DEFENCE PUBLICATIONS & EVENTS LIMITED**

11 Zinonos Sozou str, Office 103,

CY-1075 Nicosia, Cyprus, ,

Email: [dbd.defence@gmail.com](mailto:dbd.defence@gmail.com), [dbdc@skynet.be](mailto:dbdc@skynet.be)

[www.dbdcgroup.com](http://www.dbdcgroup.com)

## Contents

\* NS calls for more Maritime Domain Awareness Infrastructure [Pages 4-6](#)

\* ARMED FORCES OF NIGERIA REFORM [Pages 8-9](#)

\* Ghana Defence Update [Pages 14-17](#)

\* Rosoboronexport' Five named in 2021 [Pages 24-25](#)

\* Interview # IAI offers Sophisticated tactical VTOL UAV systems [Pages 26-27](#)

\* News in Brief [Pages 34-37](#)

\* Industrial News [Pages 38-50](#)

### Advertisement International Sales POC

- AFRICA

**M&D Ghana services Ltd**

P.O. BOX CT 4928 CANTOMENTS

ACCRA, GHANA

TEL: +233208115089/+233547473287

[mdghanaservices@gmail.com](mailto:mdghanaservices@gmail.com)

- EUROPE: Stephen Barnard

CEO, ADJUTANT MTCT: +49 228 3500886

M: +44 7984 033154 F: +44 1252

315324, [stephen.barnard@web.de](mailto:stephen.barnard@web.de)

[stephen.adjutant@gmail.com](mailto:stephen.adjutant@gmail.com)

- RUSSIAN FEDERATION

**Laguk Co. Ltd.**

Tel. +74959121346

Fax. +74959121260

e-mail: [laguk-media@mail.ru](mailto:laguk-media@mail.ru),

### INDEX OF ADVERTISERS

**EUROSATORY 2022**

**NVL GROUP**

**LEONARDO**

**POF**

**ISRAEL SHIPYARDS**

**HAVELSAN**

**ROSOBORONEXPORT**

**IDE**

**EURONAVAL 2022**

**SOFEK 2022**

**EUROMARITIME 2022**

**MD GHNA SERVICES LTD**

**AS**

## NS calls for more Maritime Domain Awareness Infrastructure



© [www.navy.mil.ng](http://www.navy.mil.ng)

The Honourable Minister of Defence, Major General Bashir Magashi (rtd) has called on African Navies to hinge on strong collaborative efforts, resource sharing, developing expertise, increased funding and efficient use of technology to bring about improved ocean governance for robust blue economy in the continent. The Minister, who was represented by the Permanent Secretary Ministry of Defence, Mr Musa Istifanus, made this call during the closing ceremony of the first virtual Sea Power for Africa Symposium held at the Naval Headquarters, Abuja on December 2, 2021.

General Magashi stated that deliberations in the Symposium revealed some critical issues confronting effective ocean governance such as gaps in the Maritime Domain Awareness infrastructures in various regions, inadequate maritime legal provisions as well as weak resource sharing framework for improved hydrographic capabilities. These limitations he said would imperatively need to be addressed in order to improve the utility of Maritime Domain Awareness infrastructures. He further identified with the position that the future of blue economy in Africa is intricately tied to effective ocean governance which is achievable through robustly integrated Maritime Domain Awareness infrastructure.

While enjoining participants to gear up efforts towards effectively implementing the resolutions

which emanated from intense deliberations during the Symposium, General Magashi affirmed that the objectives of the Seapower for Africa Symposium 2021 have been realized. Furthermore, the Minister brought to fore the need for political leaders to place high premium on the maritime sector and relevant stakeholders in order to enhance cooperation in the management of Africa's maritime spaces.

Similarly, the Chief of Naval Staff, Vice Admiral Awwal Gambo while delivering the vote of thanks stated that Maritime Domain Awareness (MDA) infrastructure constitutes a veritable force multiplier which offers naval forces invaluable leverage that enables them optimize the deployment of their platforms to effectively secure their maritime environment for sustainable economic development. Admiral Gambo said it has been 3 days of positive and fruitful deliberations on the theme of the Symposium titled "Integrating Africa's Maritime Domain Awareness Infrastructure towards Effective Ocean Governance". This he said has also led to well informed decisions from participants culminating in a robust Communiqué as well as setting new tasks for all participating countries. The CNS also appreciated the depth of intellectual and professional ethos exhibited during the deliberations, especially on issues bordering on collective efforts towards improving ocean governance for the growth of blue economy in Africa.

The CNS affirmed that the proceedings in the Symposium have identified viable concepts and lines of action to be taken some of which include the development of framework for resource sharing through joint utilization of survey infrastructure and manpower towards optimizing our hydrographic capabilities, the integration of sovereign camera surveillance and unmanned aerial vehicle capabilities into the MDA architecture as well as the adoption of Ship Rider Agreement. Others include the need to facilitate the development of a mechanism to detect and prosecute cases of toxic waste dumping in African maritime space as well as the need to sensitize political leaders to formulate robust and all-encompassing national maritime strategy to improve ocean governance. The implementation of these lines of action he said would clearly invigorate the determination to emplace a safe, secure and enabling maritime environment for socio-economic activities to thrive.

The CNS appreciated President Muhammadu Buhari GCFR, for his unwavering support to the Nigerian Navy and for creating the enabling ambience for the conduct of this Symposium. He extended appreciation to resource persons across the continent comprising the heads of navies, heads of government agencies, representatives of foreign missions, guest speakers, erudite panel of



# N·V·L

---

A NEW NAME, THE SAME DNA

## YOUR FIRST PORT OF CALL

---

Trust. Quality. Reliability. Our brand name is changing, but our core values remain the same. Lürssen Defence is now NVL Group. As an independent, privately owned group of shipyards, we continue to support navies worldwide with innovative naval solutions and comprehensive services. Dedicated to our customers' ideas and committed to their individual requirements, we are driven by a fundamental difference: our DNA. The DNA of shipbuilding.

For more information, simply call us on +49 421 6604 344 or visit our website at [www.nvl.de](http://www.nvl.de)

THE DNA OF SHIPBUILDING

discussants as well as vibrant local and international participants. Admiral Gambo expressed conviction that the outcome of the Symposium would contribute in no small measure to the improvement of ocean governance towards fostering the rapid growth of blue economy in Africa in the coming years. It could be recalled that the Sea Power for Africa Symposium commenced virtually on 30 November 2021 at the Naval Headquarters Abuja. The Symposium offered a veritable platform for African maritime nations to congregate and cooperate to address maritime challenges facing the continent.

## **PRESIDENT BUHARI APPLAUDS NIGERIAN NAVY'S EFFORTS AT SHIPBUILDING**



© [www.navy.mil.ng](http://www.navy.mil.ng)

President Muhammadu Buhari has commended the Nigerian Navy's effort in maintaining a steady course in its drive for local content development which is in tandem with the philosophy of the current administration. The President also commended the Nigerian Navy's effort in the fight against maritime crimes in Nigerian waters and the Gulf of Guinea region. He made the commendation today at the commissioning ceremony of some recently acquired platforms as well as the commissioning of the indigenously constructed Seaward Defence Boat III and the keel laying ceremony for the construction of Boat-IV and Boat-V at the Naval Dockyard Limited, Lagos.

The President reiterated the Federal Government's commitment to properly equip the Navy with the right mix of platforms which has seen the Service take delivery of NNS LANA in May this year from France. He added that given Nigeria's present high dependence on oil and gas revenues, the Navy is undeniably a major contributor to the economic well-being of the country. He therefore called on local partners to share in this commendation for their

efforts at local facilitation as outlined in the Government's local content policy.

President Buhari stated that the Federal Government is aware of the Navy's dedication towards ensuring the security of the vast oil and gas industry in the nation's maritime environment as well as the nation's sea lanes of communications. He noted that the arrests of those involved in illegalities have yielded results as some pirates, illegal bunkering syndicates, pipeline vandals and other miscreants have been convicted during the year which he attributed the successes to the enforcement of Nigeria's new anti-piracy law on Suppression of Piracy and Other Maritime Offences Act 2019.

While appreciating President Muhammadu Buhari, the Chief of Naval Staff (CNS), Vice Admiral Awwal Gambo said the event marked another milestone in the history of the Nigerian Navy, stating that the Naval Dockyard Seaward Defence Boat Project which started in 2007 has yielded substantial reward with the completion of the third Seaward Defence Boat (SDB). He further stated that with the experience garnered so far, the Naval Dockyard Limited is adequately poised to take on the challenge in pursuit of the Federal Government of Nigeria's Local Content Development effort.

The CNS said that the Hydrographic Ship, NNS LANA which was received from her maiden voyage from France will be involved in the hydrographic survey of Nigeria's territorial waters. He added that the new SBD III, Inshore Patrol Crafts and Fast Patrol Boats namely NNS ABA, NNS KANO, NNS IKENNE, NNS SOKOTO and NNS OSUN will be deployed for surveillance and patrol duties within the territorial waters. These efforts he said are geared towards enhancing the performance of the Nigerian Navy constitutional role regarding hydrographic survey and policing the nation's waters. Admiral Gambo assured that the vessels will be adequately maintained to sustain maritime security operations.

Admiral Gambo further reiterated that the Nigerian Navy would continue to imbibe the realities of national imperatives and apply the most optimal policies and strategies in addressing the security challenges in Nigeria's maritime domain including the Gulf of Guinea. He said that the platforms would be deployed in line with Nigerian Navy's Trinity of Actions Concept of Maritime Security to deny criminal elements freedom of action.

The CNS emphasized that the commissioning of SDB III, NNS OJI and others is a manifestation of the Federal Government's commitment to maintaining a well-equipped navy that Nigerians would be proud of. He therefore reaffirmed the Nigerian Navy unflinching and unalloyed loyalty to the government and the Nigerian populace.

# Falco Xplorer Persistent Surveillance. Enhanced Awareness.



Mission intelligence enables operational success.

Leonardo's Falco Xplorer is the latest-generation Remote Piloted Aerial System (RPAS) for persistent multi-sensor surveillance.

The system features an advanced, broad multispectral sensor suite at the top of its segment for actionable intelligence, surveillance and reconnaissance missions.

Inspired by the vision, curiosity and creativity of the great master inventor – Leonardo is designing the technology of tomorrow.

Visit us at World Defence Show, Hall 1 - Stand G91

Scan code to learn more



### ARMED FORCES OF NIGERIA REFORM

#### Nigeria Defence Update



On 21 December 2021, the Minister of Defence Maj Gen Bashir Salihi Magashi (rtd) has received the report of the 25 – man Implementation and Advisory Committee for the Reform of the Ministry of Defence and the Armed Forces of Nigeria.

Receiving the report presented to him by the Chairman of the Committee Maj Gen Alwali Kazir (rtd), General Magashi thanked the Committee for total adherence to the convening order that culminated into a big volume of workable document.

He assured that the recommendations contained in the document for the reform of the Ministry of Defence and the Armed Forces will be carefully perused and doggedly pursued as catalyst towards achieving the end state of improved service delivery and performance in the defence and security sector.

The Chairman of the Committee, Maj Gen Alwali Kazir (rtd) said a total of Seventy-Two recommendations emanated from wide Consultations with stakeholders and put in Seventy-five days of brainstorming on the gamut areas requiring Reformatations in the Military Sector.

General Kazir placed it on record that members of the Committee gave their very best by deploying their very rich experiences patriotically in the discharge of their National assignments without any atom of consideration for any pecuniary benefits. This according to the former Chief of Army Staff gave birth to the uninfluenced and unbiased recommendations that will expectedly and expeditiously impact on the National aspiration for improved security architecture.

He therefore thanked the Minister for the opportunity to chair a carefully selected Serving and retired

Seasoned Senior Military officers and top technocrats that served in the committee.

The Implementation and Advisory Committee for the Reform of the Ministry of Defence and the Armed Forces of Nigeria was inaugurated by the Minister of Defence on 28th September 2021 in a bid to fulfil his promise to reposition the Sector to meet contemporary Internationally acceptable Standard and best practice.

#### **Nigeria's 2022 Budget Provides Funding for Additional Military Capabilities**

The Nigerian gov't has allocated over N1 trillion to the Defence sector operations and acquisitions. The budget is usually not a complete representation of defence procurement for the year.

Nigerian President, Muhammadu Buhari, recently signed the national budget for the fiscal year 2022, which allocates over N1 trillion for defense operations, procurement and upgrade of capabilities, and infrastructure.

The defence sector budget appropriation alongside funding for other security actors in the country was approved as part of the N17.126 trillion "Budget of Economic Growth and Sustainability" signed into law on Dec. 31, 2021 by the President.

During the presentation of the proposed budget earlier in Oct. of 2021, President Buhari had stated that security would continue to be top priority. He added that the government would continue to ensure that the men and women in the armed forces, police and paramilitary units were properly equipped, remunerated, and well-motivated.

While signing the budget after transmission by the Parliament, the President noted that the document provided for aggregate expenditures of N17.127 trillion, an increase of N735.85 billion as against the initial proposal for a total expenditure of N16.391 trillion. The President also stated that he would revert to the parliament "with a request for amendment "and/or" virement" as soon as they resume.

The defence allocation of N1.2 trillion comes months after the President accented to a N982.72 billion 2021 supplementary budget in Jul. 2021, which was designed for the provision of military hardware and COVID-19 response. Auxiliary budgets are often used by the government to purchase military equipment and to improve or fill capability gaps.

The defence budget in 2022 follows the pattern of other national budgets associated with limited details and the use of generic language to describe acquisitions. This is a trend Hum Angle examined in its report on the need to strengthen security sector transparency and accountability.

The defence budget comprised expenditures of the various institutions including the Ministry of Defence, the Defence Headquarters, Army, Air Force, and Navy, in addition to other organisations such as Defence Intelligence, College, Missions and Industries.

The Ministry of Defence section included funding for rehabilitation of barracks, purchase of defence equipment and motor vehicles, and the ongoing assessment of APCs, equipment and facilities in the Nigerian Army, while the Defence Headquarters devoted funding for the procurement of “military equipment,” utility vehicles, kits, arms and ammunition.

The Army Headquarters had generic lines mentioning construction projects, procurement of defense and security equipment.

The Navy assigned funds for projects such as the completion of helicopter hanger, construction of jetties, and establishment of Special Operations Command for Special Operations Forces, Explosive Ordnance Disposal (EOD), and diving unit.

Other projects included the procurement of SDB, Landing Ship Tank, utility vehicles, troop carriers, fast patrol boats, and rigid-hulled inflatable boats (RHIBs).

The Air Force is making a balance payment for the periodic depot maintenance of three L-39ZA. Over the years, the service has invested in maintenance and overhaul of the aircraft which are used for pilot training as well as reconnaissance and ground attack missions.

Funding is also assigned for aircraft arms and ammunition, and balance payment for periodic depot maintenance of C – 130H (NAF 918) transport aircraft, in addition to balance payment for procurement of two AW109 Trekker helicopters to replace the order for one AW139 helicopter and three JF-7 thunder aircraft.



## FORCE BEHIND THE FORCES

Our vision is peace and stability. Armed deterrence is a powerful policy to preclude the destructive elements from marring peace, bringing stability and reconciliation ultimately.

To combat with valor, we deliver the best defense equipment to support the **armed forces for maintaining peace and stability.**



**PAKISTAN ORDNANCE FACTORIES**

[www.pof.gov.pk](http://www.pof.gov.pk) | [exports@pof.gov.pk](mailto:exports@pof.gov.pk)

### Ghana Defence Update

## TEN & JUBILEE PARTNERS SIGN MOU WITH GHANA NAVY

Tullow Ghana Limited and the Ghana Navy have signed a Memorandum of Understanding for the contracting of Ghanaian Navy vessels to provide security services at the Jubilee and TEN oil fields. The vessels, which have been acquired for the Ghana Navy with funding from the GCB Bank, will provide asset protection in the Exclusive Economic zone (EEZ) in the TEN and Jubilee fields. Tullow Ghana and the Jubilee Partners will provide a total of a\$23.5million-dollars during the five-year (5 year) contract period. The five-year contract commenced on 1st January 2022 and will run until 31st December 2026.

Deputy Managing Director, Cynthia Lumor said “ the Jubilee partners’ commitment to support the retooling of the Ghana Navy is mutually beneficial to both parties. This partnership will ensure the protection of the Ghanaian waters by providing security services in the TEN and Jubilee fields and along the coast of Ghana. We believe that this will further strengthen the relationship between the Tullow Ghana and the Ghana Navy”.

Chief of the Naval Staff, Rear Admiral Issah Yakubu commended the Jubilee Partners for the collaboration, saying “

Tullow Ghana and the Jubilee Partners have demonstrated commitment to sustainable production by this collaboration. The Ghana Navy will ensure that we fulfil our contractual obligations to ensure a secured maritime space for the safe operation of the TEN and Jubilee fields”.

© <https://gafonline.mil.gh>



# EMPOWERING YOUR NAVAL PERFORMANCE



**FORESEEING YOUR NAVAL NEEDS**



## GHANA NAVY RECEIVES FOUR OFFSHORE SECURITY VESSELS

The Guest of Honour for the reception ceremony, Chief of the Naval Staff (CNS), Rear Admiral Issah Adam Yakubu officially received the vessels from the Vice President of Israel Shipyards Mr Oded Breier on Monday 10 January, 2022 following their arrival at the Takoradi port on Saturday, 8 January 2022.

In his address, the CNS said the acquisition of the vessels was part of Government's decision to discontinue the deployment of Armed Security Guards on civilian vessels to provide the needed security to International Oil Companies operating in the country.

The CNS charged Captains and crew of the ships to learn from the technical teams of the manufacturers and strictly adhere to the protective maintenance system of the ships as they would be regularly inspected in accordance with set standards to ensure that the vessels were properly maintained to serve their purpose.

He thanked the manufacturers and facilitators, Penguin Shipyards Limited, Singapore and Israel Shipyards Limited respectively, for the quality work done and looked forward to a good working relationship between them.

He also extended his gratitude to the main financier of the project, Ghana Commercial Bank (GCB) Limited, BBC Nile who were the transporters of the vessels to Ghana, Management and Staff of



© <https://gafonline.mil.gh>

The Ghana Navy has received four Offshore Security Vessels at the Takoradi Port as part of activities undertaken in line with the tradition of the Ghana Navy prior to the deployment of vessels.



# Integrated Border Security System

System Integrator and Turnkey System Provider for Border Security and Management Projects

## LAND BORDER SECURITY SYSTEM

- Allocation of sensors and weapons,
- Generating tactical picture for strategical planning,
- Situational awareness for fast and accurate sharing of information,
- Facilitating threat evaluation and critical decision-making process,
- Communication with patrols and site officers

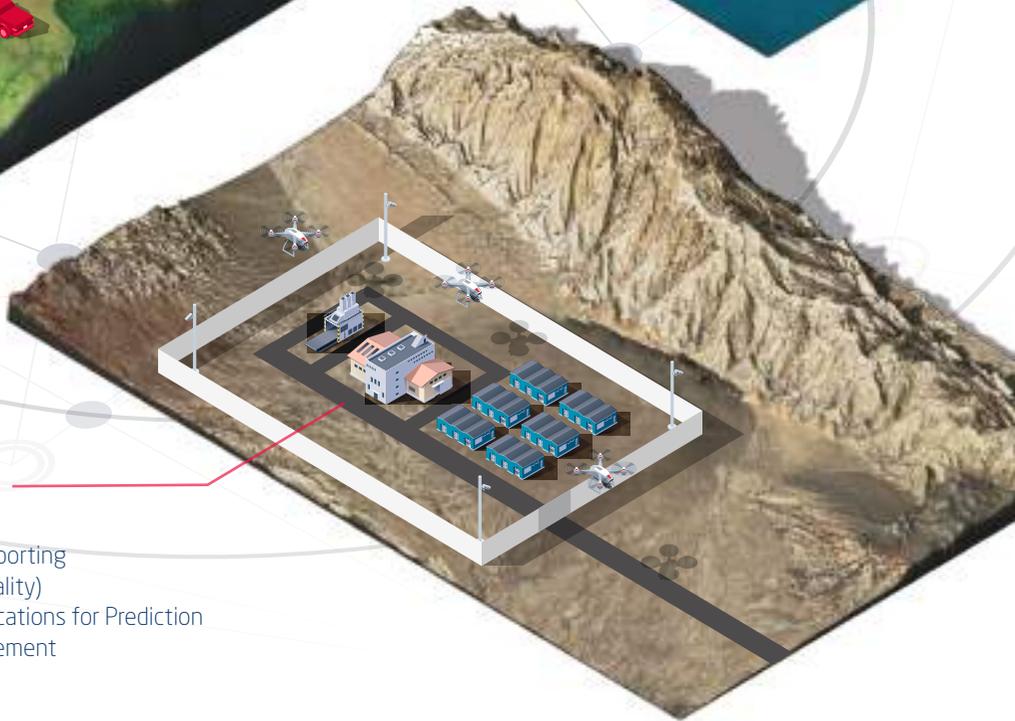
## COAST SURVEILLANCE RADAR SYSTEM

- Human Trafficking
- Irregular Migration
- Illegal Fishing
- Sea Pollution
- Search and Rescue



## CRITICAL INFRASTRUCTURE SECURITY SYSTEM

- Monitoring, Alarm Generation and Reporting
- Video Analytics (Face, Plate, Abnormality)
- Artificial Intelligence (AI) Based Applications for Prediction
- Motion Detection and Sensor Management
- CBRN-E Control and Management



Takoradi Port, International Oil Companies and all maritime stakeholders for their strong partnership and support.

In recognition of the importance of rivers in Ghana, the River Class vessels were named after some major rivers, namely: Volta, Ankobra, Pra and Densu.

The Flag Officer Commanding (FOC), Western Naval Command (WNC), Commodore Samuel Walker in his welcome remarks applauded the efforts of the CNS, whose vision it is to modernise the fleets to enhance the Navy's capacity in providing and improving security within the maritime space of Ghana and as well boost the economy.

## UNMISS SECTOR UNITY COMMANDER VISITS GHANBATT HEADQUARTERS

The Sector Unity Commander for United Nations Mission in South Sudan (UNMISS), Brig Gen CM Mujuni paid his maiden visit to UNMISS Ghana Battalion (GHANBATT) Headquarters at Bentiu in South Sudan on Wednesday 19 January 2022. The visit was to familiarize himself with the activities and challenges of the Battalion in the discharge of their assigned responsibilities.



© <https://gafonline.mil.gh>

A guard was mounted in his honour following which he was briefed on the operations, administrative and logistics state of the Battalion since its insertion into the mission area in July 2021.

An overview of the operational responsibilities of GHANBATT's Company Operating Base and Temporary Operating Base in Leer and Koch respectively were also outlined to Brig Gen Mujuni.

The Sector Commander's attention was drawn to various challenges faced by the Battalion in Bentiu, Leer and Koch. The GHANBATT Commanding Officer, Lt Col Mfum intimated that when these challenges are addressed, it would help personnel to perform their tasks more effectively and efficiently. He further assured the Sector Commander of the Battalion's commitment to working hard to help achieve the mandate of UNMISS.

The Sector Commander commended GHANBATT for the good job done despite the numerous challenges they are confronted with. He assured the Battalion of engaging the relevant stakeholders to seek solutions to the challenges outlined. He further encouraged the battalion to live by its motto of 'Doing the impossible at once' in every circumstance they find themselves. Brig Gen Mujuni was later toured round the camp by Lt Col Mfum.

## CHINESE NAVY TO BUILD STRONGER RELATIONS WITH GAF



© <http://mod.gov.gh>

The Chinese Ambassador to Ghana, His Excellency Shi Ting Wang has expressed his readiness to work cordially with Ghana to build a stronger relationship between his country's military force and the Ghana Armed Forces (GAF). He assured the Defence Minister for Defence he that would work hard as his predecessor to strengthen the long-standing relationship the two countries have enjoyed over the years.

He used the opportunity to thank the Ministry and the Government of Ghana for their commitment made to China in the past years. The Ambassador mentioned this when he paid his maiden visit to The Square with the Chinese Navy Escort Task Force and Chinese Fleet. The Minister, Hon Dominic Nitiwul, expressed excitement about the Chinese Navy ships docking in Ghana. He said it showed

2022

# EUROSATORY

13-17 JUNE 2022 / PARIS

## THE DEFENCE & SECURITY GLOBAL EVENT



2018 key figures

that the value of the relationship between Ghana and China was getting stronger and that China has been of great support to the country. He added that Ghana was proud to be associated with the Chinese. He thanked the Ambassador for the (US \$7.5) million aid given to GAF which supported some training schools and started the construction of the Army Headquarters. He said China was also the first to support Ghana's Navy with four patrol boats to go deep sea to intercept illicit boats and criminals. The Minister used the opportunity to express his gratitude to the people of China for being of immense benefit to Ghana and GAF. On his part, Naval Captain of the Chinese Navy, Commander Wu Dongzhu said he was hopeful the Chinese Navy Fleet's visit to Ghana would open new chapters of exchanges between the two countries, their militaries and their Navies in particular. He mentioned that China was ready to build sincere friendship with GAF to foster unity, global peace and development.

## LAUNCH OF OPERATION VANGUARD

Operation VANGUARD is a Ghanaian Presidential initiative aimed at ending an illegal mining activity otherwise referred to as "galamsey". Following this initiative, a Joint Military and Police Taskforce (JTF) of 400 personnel, comprising 200 military and 200 police personnel was formed to deal with the menace of degrading the forests and polluting the rivers and water bodies in the affected areas.

The JTF was deployed to the most affected areas in the Eastern, Western and Ashanti Regions.

©<http://mod.gov.gh>



The troops were deployed to the affected areas after pre-deployment training from 19 to 26 July 2017 and launched to the Forward Operational Bases (FOBs).

Operation VANGUARD was formally launched at a ceremony at the Forecourt of the Directorate of Public Relations in Burma Camp on 30 July 2017. The ceremony was performed by a panel of Ministers forming the Inter-Ministerial Committee with the Chief of the Defence Staff, Lieutenant General OB Akwa and the Inspector General of Police, Mr David Asante-Appaatu in attendance.

The pre-operational training of the troops was necessary among others:

- To allocate and designate operational areas for troops.
- To create opportunity for all ranks to sharpen their individual and collective operational skills.
- To teach the rules of engagement (ROE) for both military and police personnel and also directives to enable them to enforce the law.
- To harmonise operational doctrine in order to facilitate interoperability.
- To facilitate bonding and esprit-de-corps amongst troops.

Some challenges the JTF faced included inadequate transport for the movement of troops and equipment and the difficulties involved in the evacuation of seized heavy equipment like excavators from illegal mining sites to the Police Stations.

In spite of the challenges faced by the JTF, Operation VANGUARD performed creditably and was a huge success as it ensured the establishment and maintenance of an effective, robust hybrid and operational unit, building of confidence in the local communities by establishing good relations with the people, making significant number of arrests and seizures, reducing drastically if not eliminating wanton destruction of the environment. Also, the JTF deterred illegal miners to discontinue their activities of illegal mining on water bodies.

The destruction of over 6,000 changfangs has helped to improve the turbidity of some river bodies, thereby reducing the cost of production of potable water. Additionally, the presence of Operation VANGUARD Taskforce in the Forward Operational Areas has drastically reduced crime rate and caused the voluntary evacuation of several excavators from the hinterlands to the urban centres.

The ban on small scale mining was lifted on Monday 18 December 2018; however, that of illegal small-scale mining (Galamsey) is still in force.

### **CNS PAYS TWO DAYS WORKING VISIT TO WNC**



© <https://gafonline.mil.gh>

The Chief of the Naval Staff (CNS), Rear Admiral Issah Yakubu has paid a two-day working visit to the Western Naval Command (WNC) in Sekondi-Takoradi from Sunday 19 to Tuesday 21 December 2021.

In a durbar with troops on Monday 20 December 2021, the CNS commended the Flag Officer Commanding (FOC) WNC, Commodore Samuel Walker for keeping the Base afloat and his sterling leadership to the Command. He expressed his amazement for the transformation at the Base and was very pleased with the good work done by the FOC and his Men.

He noted that the Navy had set some priorities which included the modernization of the fleet and the Navy in general, committing resources for the improvement in professionalism and to seek the welfare of personnel. He said despite the COVID-19 pandemic, a lot had been achieved with reference to the set priorities.

With the modernization of the fleet, the CNS hinted that Government had approved budgetary allocation for the purchase of additional Offshore Patrol Vessels (OPVs) and Fast Patrol Boats (FPBs) for the Navy. He used the opportunity to thank government for the support and its high interest in maritime security. The CNS announced that they had taken delivery of four 5.9 metre zodiac

boats that were highly maneuverable with state-of-the-art equipment on them.

He averred that beyond the support from government, the Ghana Navy on their effort, had also put measures in place to support the government by acquiring four new Offshore Security Vessels for their offshore security operations. The four vessels had been named after some river bodies namely, GNS Volta, GNS Densu, GNS Ankobra and GNS Pra. He commended the entire Command for their role in the operation Halt II with the aim to recover and revive the river bodies. He said apart from the fleet, they were also trying to modernize the way they administer the Navy by way of digitization, which will enable things to be done faster and easier. He, therefore urged personnel to upgrade themselves in the area of digitization to be able to operate the new vessels which were modern and computerized.

He was impressed with the high level of professionalism displayed by personnel over the years. He stated that they had made good strides with their Special Boat Squadron which had now become the toast of the Ghana Armed Forces (GAF) in terms of operations. He thanked the CDS for expanding the recruit training accommodation at the Naval Training Command (NAVTRAC) and Ratings accommodation at WNC among others.

On welfare, he said accommodation was a major challenge and due to that, they had entered into a joint venture with a company using innovative ways. He announced that, next year, they will break grounds for a 2000-unit barracks accommodation to be built in Accra and the Western Regions, to ease the accommodation challenges of personnel. He stressed that they were also engaging a mortgaged facility to assist personnel to own their homes with a flexible payment plan.

He added that, due to the risk nature of their work, they had instituted a Ghana Navy Endowment Fund with a seed capital of GH 1 Million Cedis. This, he said, will be used to cater for families of personnel when they pay the ultimate sacrifice in line of duty. He advised personnel to religiously contribute towards their provident fund which will serve as supplement funds when they go on pension. The CNS cautioned personnel against the use of social media to perpetrate acts that will dent the name of the Navy and GAF as a whole.

Prior to the durbar, the CNS toured the Base and inspected ongoing projects, other facilities, the new Ratings accommodation and the Officers accommodation project at Kweikuma in Sekondi.



# NVL GROUP SUPPORTING AFRICAN SECURITY

Offshore patrol vessel 80

## Effectively protecting African values

NVL Group understands the growing importance of the geostrategic aspects of the African continent in respect of natural resources and protecting the sovereignty, integrity, economy and wealth of the various African nations. The company has a strong reputation and expertise in tailor-made concepts and solutions for coastal defence and maritime security.

## Maintaining security

Today's navies face a broad spectrum of challenges in maintaining security in a fast-changing maritime environment. These geostrategic aspects mean that nations require affordable, versatile and fast platforms to operate successfully in territorial waters and to protect against traditional threats. Whether the mission is protecting economic resources, countering criminal activity or safeguarding life at sea,



a flexible and effective response is essential. At NVL Group, we recognise the importance of building vessels that are easy and economical to operate yet still deliver superior levels of performance.

## Customise platforms for any naval requirement

NVL Group provides state-of-the-art patrolling solutions for every kind of challenge

and threat, such as patrol boats, offshore patrol vessels, corvettes, frigates, mine-hunters or naval support vessels.

### Territorial sea (< 12 nm)

- Offering high speeds of over 40 knots, NVL fast patrol boats can quickly respond to challenges. High performing and with excellent seakeeping characteristics, these boats are ideally suited for interception and patrolling territorial waters.

### Contiguous zone (< 24 nm)

- No matter how long a coastline is, contiguous zones are best patrolled by NVL patrol boats, which are characterised by their speed, performance and versatility. The proven design guarantees maximum reliability and endurance.

### Exclusive economic zone (200 nm)

- The exclusive economic zone (EEZ) is best patrolled by offshore patrol vessels built by NVL Group. Their multirole and multi-mission platforms provide permanent maritime security in the operational area due to their endurance and excellent sea-keeping capabilities.

### Strong support for cost-efficient naval vessel operations

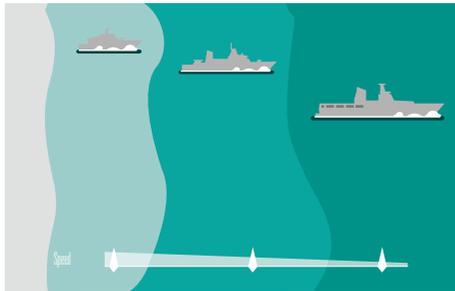
Whatever the requirement, NVL Group works in partnership with its customers to establish the right solutions. We offer the option to build vessels at one of our NVL Group shipyards or we can transfer both

our knowledge and technology, developing our partner's maritime industry. In all cases, we focus on delivering technically advanced, high-quality ships that balance a navy's operational needs with its available budget. NVL Group also provides sustainability support for existing fleet structures in the form of upgrades, spare parts supply, training, technology and knowledge transfer and other services to maximise the potential of any navy vessel.

### Your naval solution

NVL Group provides you with feasible and economical solutions to fulfil the tasks of today and overcome the challenges of the

future. We aim to ensure each ship entrusted into our care remains mission ready at every stage of its operational life. NVL Group maritime patrolling solutions offer reliable and versatile multi-mission performance, providing a cost-effective yet comprehensive means of meeting maritime security needs across the seven seas.



The maritime zones (from left to right): territorial sea, contiguous zone, EEZ



NVL Group works closely with the customer to enable local build and the transfer of knowledge and technology



Fast interceptor boat 25

## NVL · THE DNA OF SHIPBUILDING



Fast patrol boat 41

NVL Group is a privately owned group of renowned Northern German shipyards and related companies, formerly known as Lürssen Defence. Customers can rely on the company to consistently provide tailored, smart and cost-effective naval solutions that keep navies mission ready around the world. With deep roots in shipbuilding, NVL Group delivers high-quality naval and coast-guard vessels, as well as comprehensive services throughout the entire life cycle of their fleets. Construction at NVL Group's shipyards is supplemented by licensed manufacture at customer facilities worldwide under technology transfer arrangements. As an independent enterprise, the company remains flexible to market changes and operates a dynamic, safe and future-oriented business.

### More about NVL Group's naval solutions:

**NVL B.V. & Co. KG**  
Zum Alten Speicher 11  
28759 Bremen, Germany  
Tel.: +49 421 6604 344  
Mail: info@nvl.de



## Israel Shipyards Provides a Modular Solution for Shipbuilding

### *The Flexible Process is Tailored to Customer Needs*



Israel Shipyards Ltd. has developed an efficient, modular concept for building ships that is tailored to the specific needs of each customer.

The flexible construction process allows vessels to be built on a single production line, or in modular fashion, with some sections being built in parallel to each other, either at a single site or at several sites simultaneously. For example, the ship's hull can be built from several separate blocks, depending on the type and size of the ship. Each block can be built separately, or in parallel with other blocks – up to the final construction stages including outfitting and painting. The construction of the blocks, as well as their assembly into a complete hull, can be done either at the shipyard or at the customer's facility.

This modular concept, which enables multiple blocks to be built and outfitted simultaneously, significantly shortens the time required for building the vessel. Enabling the transfer of part or all of the process to the customer's site allows Israel Shipyards to provide its customers, upon request, with Transfer of Technology (TOT) services. These services – which are delivered by Israel Shipyards' highly skilled and globally experienced training teams – are available for a variety of knowledge and experience levels from beginning to advanced stages. They are specifically designed to meet each customer's defined needs, capabilities, and available infrastructure.

Benefits of the TOT process include the training of high-quality personnel to a high level of professionalism, savings on the costs of building the vessel by enabling the customer to perform the work, contribution to the local economy by training the customer's employees and enabling trained crews to assist Israel Shipyards in building vessels for additional projects for third parties.

According to the CEO of Israel Shipyards, Mr. Eitan Zucker, "Our teams think outside the box and provide solutions that allow our customers the best and most convenient conditions to equip themselves with the vessels they need for the protection of their maritime borders.

Having understood that during complex and difficult times, such as the period of the COVID-19 pandemic, creativity and flexible thinking are required in order to provide the best possible solutions for our customers. This realization was the impetus for the option we formulated based on a modular process for shipbuilding.



This service allows the customer to select the most convenient and economical option for the long and short term.”

### **Israel Shipyards' Main Vessel Families**

*Israel Shipyards offers three main families of vessels – Offshore Patrol Vessels (OPVs), SHALDAG Fast Patrol Craft (FPCs), and Corvette vessels.*

#### **The Offshore Patrol Vessel (OPV) Family**

The company's advanced and cost-effective OPVs – made of steel hulls and aluminum superstructures – are designed for coastal protection, as well as drilling rigs, and offshore facilities protection. They provide a weapon-carrying capacity equal to larger, more costly vessels. Weapon control and navigation systems are installed on the command bridge, enabling centralized control by the ship's commander.

#### **The SHALDAG Fast Patrol Craft Family (FPC) for Law Enforcement**

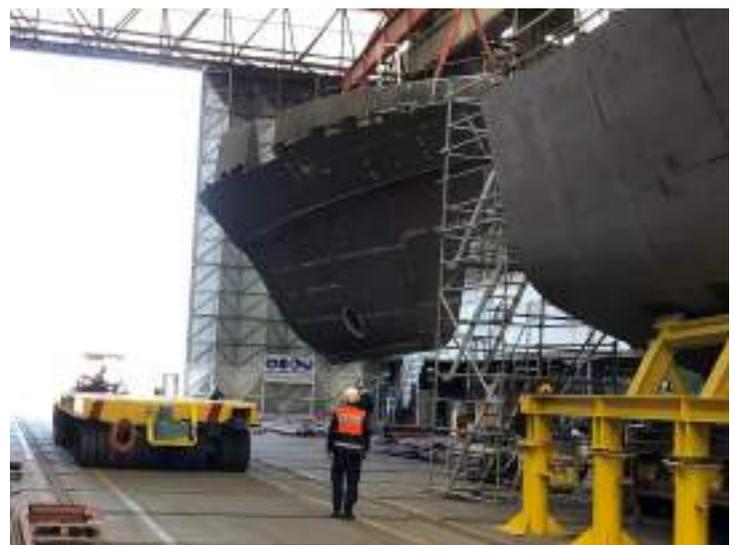
Israel Shipyards' combat-proven SHALDAG Family of Fast Patrol Craft (FPC) integrates innovations created by Israeli defense experts in response to real-life security challenges, and draws on extensive operational experience in a broad range of environments. The SHALDAG is an all-aluminum vessel driven by water jet, with a speed of above 45 knots, even in rough seas. These vessels have an acceleration from zero to 40 knots in less than one minute, a turning diameter of 150m, and minimal draft enabling operation in shallow waters. Equipped with advanced, lightweight weapons systems, they are ideal for security tasks where high intercept speeds and easy maneuverability are required without sacrificing vessel control.

#### **The Corvette Vessel Family**

Israel Shipyard's Corvette Family includes the SA'AR line of exceptionally reliable, battle-proven vessels. The SA'AR S-72 is a multi-mission vessel with a modular design that can be used in naval warfare or equipped with lighter weaponry and used as an OPV. Utilizing hybrid propulsion, it automatically switches to diesel upon acceleration. The vessel is designed for Search & Rescue missions, open sea patrol and surveillance, and for the protection of maritime borders and offshore facilities.

The company's new Reshef Class is an advanced combat vessel that replaces the SA'AR 4.5, which has been in service for over 20 years. The new vessel, being designed for the Israeli Navy, will withstand a wide range of evolving threats and challenges. Based on the SA'AR S-72's proven design, it will provide the advanced

capabilities that will be required in future combat scenarios – as well as for the protection of EEZs and offshore oil and gas facilities.



© Israel Shipyards Ltd

## **HAVELSAN Integrated Border Security System**

HAVELSAN is one of the leading technology companies of Turkey, established in 1982 as a corporation affiliated with the Turkish Armed Forces Foundation. Thanks to its decades-long experience and highly qualified human resources, HAVELSAN provides high technology-based software-intensive solutions and products for armed forces, public and private sectors at home and abroad.

As HAVELSAN we understand the growing importance of geostrategic aspects and dynamics of African continent in respect of natural resources and protecting sovereignty, integrity, economy and wealth of the various African nations. As a result, we are dedicated to provide state of art technologies, proven and reliable end to end solutions for every kind of challenge, threat and need of African nations.

**HAVELSAN Integrated Border Security System** is developed to protect a wide critical and strategical areas against any threats that attempting to cross borders and attack critical facilities. IBSS can be scripted upon scenarios that includes popular threats, possible threats, and geography specific

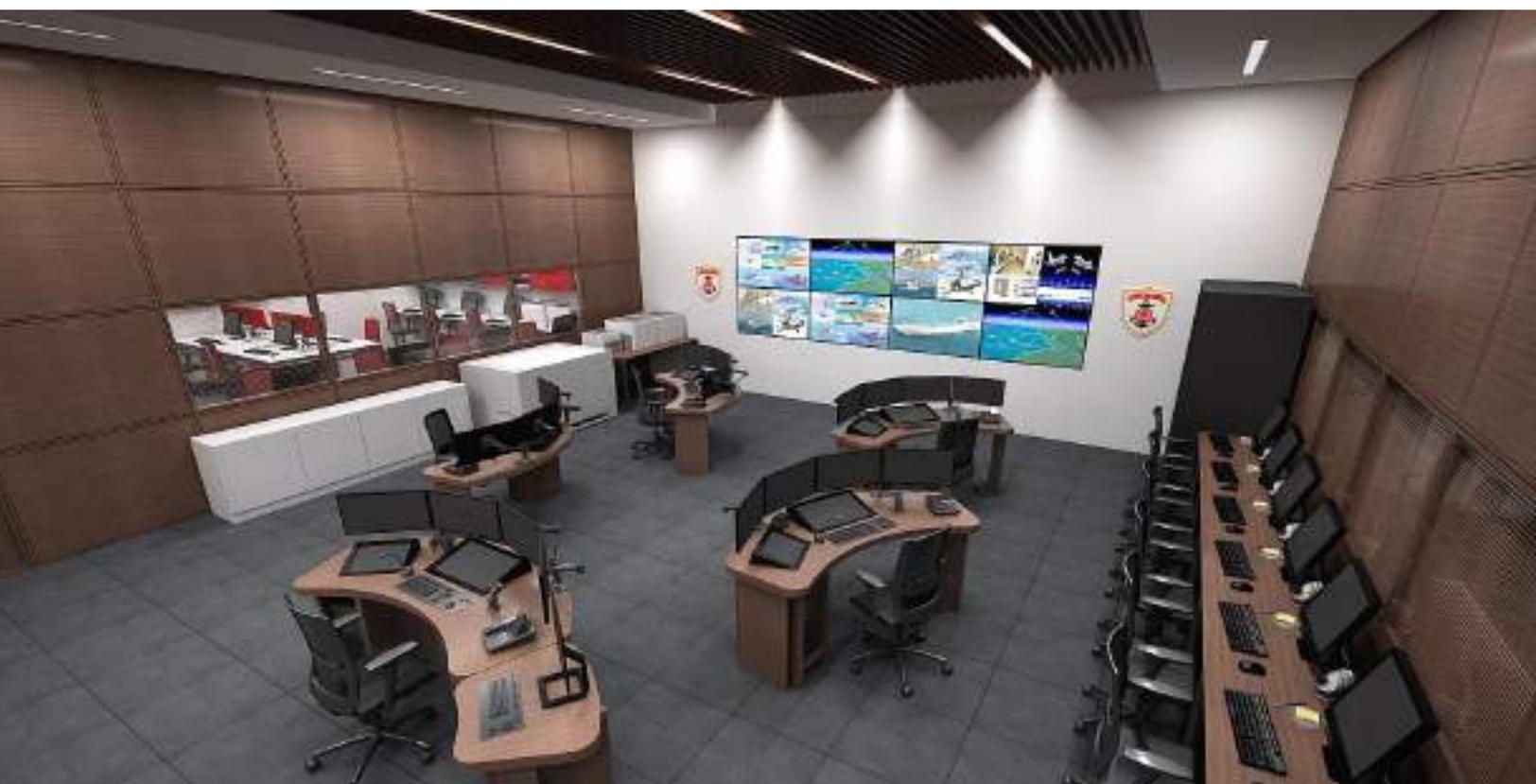
threats and so on. IBSS is based on a hybrid architecture that combines distributed data fusion and central command & control and generates Joint Border Picture from continuously updated Recognized Land, Air, Maritime Border Pictures and Critical Facility Situation received from sublevel C4I systems.

IBSS ensures surveilling the current border situation with UAV/COMBAT UAV integration at tactical level. In addition to that, the IBSS also ensures necessary information flow in an absolute and accurate manner and provides increased common situational awareness for dismounted border units.

The IBSS will be complemented with number of borderline surveillance sites across the border, land assets such as Radar, Electro-Optical Cameras, Remote Controlled Weapons and unattended sensors, surface assets including patrolling vehicles and personnel equipment.

Perimeter protection of the bases and facilities behind the borderline, from surveillance sites to bases and headquarters are also ensured in the IBSS scope. A casual CCTV solution in these areas with Video Analytics for software is supported surveillance. So, it is further enhanced with SWIR cameras, Motion Detection Sensors, Fiber Optic Acoustic Sensors, UAVs for increased intrusion detection and controlled entry/exit/access control systems with road blockers, barriers, strengthened gates, ballistic guard houses for extended physical security purposes.

Coastal security as well as the border security is another essential part of Integrated Border Security System concept. IBSS is complemented by numerous defense technologies are the other essential elements of an integrated border security.



**HAVELSAN Coastal Surveillance radar System (CSRS)** aims to provide situational awareness by compiling a Recognized Maritime Picture through the countries' coastal and territorial waters by fusing data of coastal surveillance radars, electro-optical sensors, Automated Identification Systems (AIS), public institutions, and/or other organizations. CSRS also increases the effectiveness of search and rescue, outpost, and reconnoitring activities.

With the completion of the project, all territorial waters and adjacent areas within the country's sovereignty will be fully and effectively monitored, and crimes such as smuggling, illegal immigration, fishing and marine pollution will be combated more effectively.

HAVELSAN is the main contractor for the first phase of the project for developing a CSRS software integrated with internal and external systems/institutions and for the installation and integration of coastal surveillance stations and operations centers in order to ensure uninterrupted surveillance of the countries with the coastline using radar and electro-optical sensors.

HAVELSAN is ready to share its experience and know-how with friendly African countries in a sense of real transfer of technology to realize numerous opportunities in its fields of operation. Whatever the requirement, HAVELSAN as a reliable solution partner, is dedicated to work in partnership with various African nations to deliver its smart solutions and advanced technologies.



©HAVELSAN



## Rosoboronexport' Five named in 2021

Rosoboronexport JSC (part of the Rostec State Corporation) has summed up its efforts to promote Russian weapons and military equipment on the world market in 2021.

"In 2021, the global arms market has largely adapted to work under coronavirus pandemic conditions. Exhibition activities have resumed largely, contacts with foreign customers have returned to the format of direct negotiations. Rosoboronexport took part in 10 international exhibitions abroad and 7 events held in Russia," said **Rosoboronexport General Director Alexander Mikheev**. "At the same time, the trend for promoting products on digital platforms has continued. Organizing web exhibitions, conduct of remote negotiations and multimedia presentations, and online demonstrations of new products have significantly increased interest in Russian weapons."

Rosoboronexport and Russian defense manufacturers showed their partners long-awaited new products at defense and security exhibitions held in 2021.



*C-350E Vityaz is a further derivative of the well-known Russian AD families*

"The top 5 new export products unveiled in 2021 includes the Checkmate light tactical aircraft showcased at MAKS and Dubai Airshows, Orion-E reconnaissance/strike unmanned aircraft system demonstrated in Russia and abroad, TOS-2 Tosochka MRL with thermobaric ammunition, Kalashnikov AK-19 assault rifle and the S-350E Vityaz air defense missile system," added **Alexander Mikheev**.

Rosoboronexport noted increased attention to other latest Russian-made products. In particular, great interest was shown in the Pantsir-S1M anti-aircraft gun/missile system, the Krasukha EW system and the Repellent-Patrol mobile EW system for countering small drones, which were contracted for the first time in 2021.



*Checkmate LTA is intended to have global success*



enterprises, respond to emerging market demands in a timely manner," emphasized the head of Rosoboronexport.

"Next year we will focus on the development of proposals in the field of unmanned aircraft and robotics, AI-based high-tech products, and precision guided ammunition.

At the same time, the largest demand is expected to be for defensive systems designed to protect the sovereignty of our partners and repel air, sea and land threats, as well as for counterterrorism equipment."

© ROE/ Ka-226T has been selected by India as a light utility helicopter

The full-scale models of the Mi-28NE, Ka-52 and Ka-226T helicopters in new configurations, showcased at the Dubai Air Show by Rostec's Russian Helicopters Company, have become among the most popular exhibits.

A full-scale demonstration of Russian shipbuilding industry's new ships in export configurations to foreign customers became the main achievement of the International Maritime Defense Show 2021. The delegations of Rosoboronexport's partner countries which visited the IMDS expressed satisfaction with the fact that they were able to see, visit and evaluate the ships offered to them.

"Rosoboronexport continued to strengthen its positions in regional markets. Its order book in Southeast Asia has grown significantly, the value of contracts signed in 2021 with sub-Saharan African countries reached 2.5 billion euros," said **Alexander Mikheev**. During the summit in India, a long-awaited contract was signed for the licensed production of AK-203 assault rifles with a final unprecedented 100 percent localization in the country.

Negotiations on new breakthrough topics in the field of military-technical cooperation were also launched in New Delhi.

In 2022, Rosoboronexport plans to further expand the range of weapons and military equipment exported from Russia and its presence in the global market.

"We closely and timely monitor global trends, new challenges and threats to security at various levels and, in close cooperation with defense industry



*Repellent-Patrol is an up-to-date anti-drone EW-system*

One can get acquainted with the Russian national pavilion during the World Defense Expo in Riyadh, KSA capital.

## IAI offers Sophisticated tactical VTOL UAV systems

IAI offers a vast portfolio producing air and missile defense, unmanned aerial systems (UAS), ground robotics, precision-guided weapons, and loitering munitions as well as delivers special-mission aircraft, modernize military aircraft and helicopters, and convert passenger jets into cargo aircraft through modification, conversion, and system integration. IAI in an exclusive interview with the AFRICAN SECURITY presents its products and services.

**African Security:** IAI is no doubt an exceptional company with regard to expertise and capability for designing, combat proven technologies developing and manufacturing state-of-the-art Defence Systems. Can you give us some background on how the company got started?

IAI was established in 1953, starting as an aviation company, developing and maintaining aircraft for

the new established state of Israel. Since then, IAI has grown and developed, focusing not only at aviation, but also on air defence, UAVs, space, radars, ground combat, cyber, and naval systems, and becoming a world leader in these fields. IAI is at the forefront of developing cutting-edge technologies that are sold to customers worldwide.

**African Security:** Could you tell us about IAI approach towards developing new products?

Bringing to the table many years of experience and expertise, IAI develops and manufactures new products to provide state-of-the-art solutions with advanced capabilities. In addition, IAI works together with other global leaders in the industry to develop the best defence and security solutions.

**African Security:** How do you place IAI in global market? Are there any new developments you can share with our readers concerning its export activities?

Today, IAI is considered to be one of the leading companies in the defense market. Working together with many other leading companies in the industry and innovating together, IAI brings new



developments to the market. In addition, IAI is looking for new markets and new opportunities, and understands the need of teaming up with other good and experienced industry leaders worldwide.

**African Security:** Could you tell us some details about IAI BlueBird WanderB and ThunderB VTOLs, and UAVs?

About a year ago, IAI teamed with Bluebird Aerosystems (IAI subsidiary) to continue developing leading VTOL systems. Both WanderB and ThunderB VTOL UAS are highly mature systems, operating around the world, and well experienced in operational conditions in a variety of scenarios.

The WanderB VTOL is a mini-VTOL UAS, weighing 14 kg with an operational range of 50 km LOS. The ThunderB VTOL, the bigger brother, has a 150km range LOS, and its endurance time is 12 hours. In addition to developing leading VTOL UAS, IAI is the proud manufacturer of the Heron family of UAS: Tactical Heron, Heron MK2, and Heron TP, which are operating worldwide for many years, and are under constant improvement. **African**

**Security:** African market has received attention of the international defence industry in recent years. Does IAI aim to enhance its presence in the African continent and explore new opportunities in this growing market?

Just as any other market globally, IAI views Africa as an important market. We operate a variety of systems in different countries around the world and intend to deepen these relations in the future.



**African Security:** What are IAI ambitions for the future?

We intend to keep innovating, create partnerships with new companies and countries, and continue developing and leading the defense industry worldwide.



### **EGYPT – C-130J-30 SUPER HERCULES AIRCRAFT**

On 25 January 2022, the State Department has made a determination approving a possible Foreign Military Sale to the Government of Egypt of C-130J-30 Super Hercules Aircraft and related equipment for an estimated cost of \$2.2 billion. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale today.

The Government of Egypt has requested to purchase twelve (12) C-130J Super Hercules aircraft with four (4) each Rolls Royce AE-2100D Turboprop Engines (installed); twelve (12) Rolls Royce AE-2100D Turboprop Engines (spares); thirty (30) Embedded GPS/INS (EGI) with GPS Security Devices (including 6 spares); and seven (7) Multifunctional Information Distribution System – Low Volume Terminal Block Upgrade Two (MIDS-LVT BU2) (including 3 spares). Also included are AN/APX-119 Identification Friend or Foe (IFF) Transponders; AN/AAR-47 Missile Warning Systems (MWS); AN/ALE-47 Countermeasures Dispensing System (CMDS); AN/ALR-56M Radar Warning Receiver (RWR); AN/AAQ-22 (STAR SAFIRE 380); secure communications, cryptographic equipment, and GPS-aided precision navigation equipment; publications and technical documentation; software and mission critical

resources; aircraft support and equipment; unclassified return and repair; integration and testing; personnel training and training equipment; U.S. Government and contractor engineering, technical, and logistics support services; and other related elements of logistical and program support. The estimated total program cost is \$2.2 billion.

This proposed sale will support the foreign policy and national security of the United States by helping to improve the security of a Major Non-NATO Ally that continues to be an important strategic partner in the Middle East.

The proposed sale will improve Egypt's capability to meet current and future threats by providing airlift support for its forces by moving supplies, equipment, and people, thus strengthening its capacity in the security and humanitarian arena. This airlift capability would assist with border security, the interdiction of known terrorist elements, rapid reaction to internal security threats, and humanitarian aid. Egypt also intends to utilize these aircraft for maritime patrol missions and search and rescue missions in the region. Egypt, which already operates a mix of legacy C-130s, will have no difficulty absorbing these aircraft and services into its armed forces.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

The principal contractor will be Lockheed Martin Aeronautics Company in Marietta, GA. There are no known offsets proposed in conjunction with this potential sale. N This notice of a potential sale is required by law. The description and dollar value is for the highest estimated quantity and dollar value based on initial requirements. Actual dollar value will be lower depending on final requirements, budget authority, and signed sales agreement(s), if and when concluded.

© Lockheed Martin



### EGYPT – AIR DEFENSE RADAR SYSTEMS

On 25 January 2022, the State Department has made a determination approving a possible Foreign Military Sale to the Government of Egypt of Air Defense Radar Systems and related equipment for an estimated cost of \$355 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale today.

The Government of Egypt has requested to buy three (3), spares, motor generators, repeaters, radomes, technical manuals, site surveys, installation, calibrations, testing, operator training, and maintenance training associated with the SPS-48 LBR; obsolescence replacements of processor, track management system, communication equipment, uninterrupted power supply (UPS), generators, and/or Transmitter Control Unit in fielded SPS-48 LBR systems; updated built-in-testing (BIT) and overhaul of fielded SPS-48 LBR antenna systems; and other related elements of logistical and program support. The estimated total program cost is \$355 million.

This proposed sale will support the foreign policy and national security of the United States by helping to improve the security of a Major Non-NATO Ally country that continues to be an important strategic partner in the Middle East.

The proposed sale will improve Egypt's capability to meet current and future threats by improving the detection of various air threats. Egypt will have no difficulty absorbing this equipment into its armed forces since Egypt already operates previously procured SPS-48 Land Based Radars.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

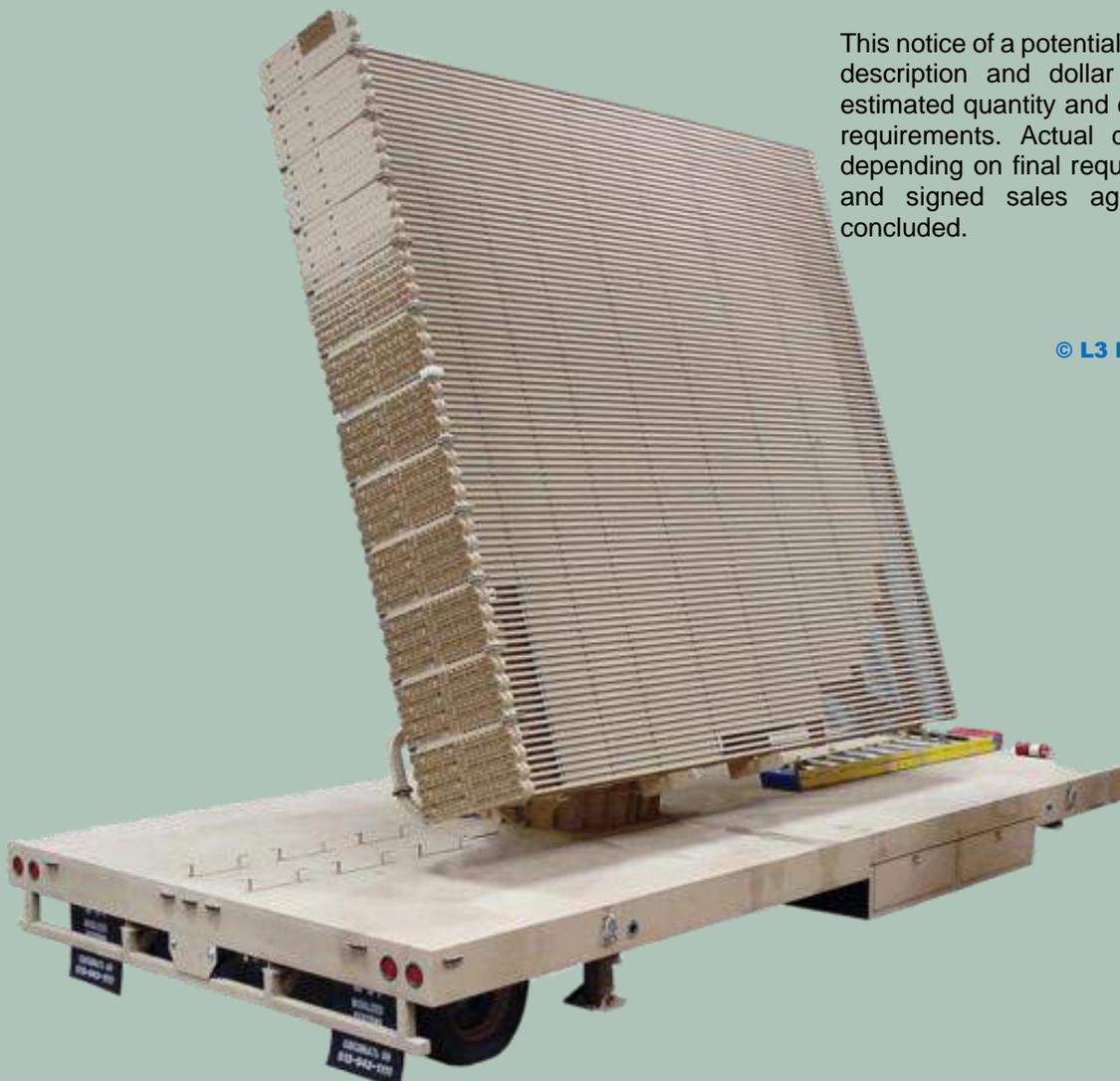
The principal contractor will be L3 Harris Surveillance Systems, Van Nuys, CA. There are no known offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will not require the assignment of any additional U.S. Government or contractor representatives to Egypt with the exception of periodic trips that are 1-5 weeks in duration to participate in program reviews, inspect installations, verify testing, and buy-off equipment.

There will be no adverse impact on U.S. defense readiness as a result of this proposed sale.

This notice of a potential sale is required by law. The description and dollar value is for the highest estimated quantity and dollar value based on initial requirements. Actual dollar value will be lower depending on final requirements, budget authority, and signed sales agreement(s), if and when concluded.

© L3 Harris Surveillance Systems



### **PROFORCE UNVEILS PF VIPER AT COAS CONFERENCE 2021**

Pictures of the newly designed Mine Resistant Ambush Protected (MRAP) vehicles produced by PROFORCE were displayed during the Research and Development Exhibition at the Chief of Army Staff Annual Conference in Abuja on 6th December 2021.

This is coming just after the Nigerian Army took delivery of new Bigfoot Mine Resistant Ambush Protected (MRAP) vehicles and Type 89 Infantry Fighting Vehicles from China to maintain peace and order, as terror attacks by insurgents in Nigeria and neighbouring countries subsides.

The Nigerian Army has a fleet of PROFORCE Mine Resistant Ambush Protected vehicles in its inventory which have helped the troops to carry out successful operations to deny terrorists of freedom of operation in the Northeast region of Nigeria. PROFORCE has even exported many MRAPs to other nations in Africa like Republic of Chad.

The Proforce PF Viper is a FAST ATTACK Infantry Assault Vehicle (IAV). It is the latest design by the Proforce Team to answer to the need of the Armed Force's requirement for a fast-moving, light weight, easy-to-maintain, and multi-terrain vehicle with superior protection serving as a reliable companion.

The PROFORCE PF Viper is a lighter and manoeuvrable version of a Mine Resistant Ambush Protected vehicle, designed to provide ultimate protection for high degree threats. The PF Viper has remarkable ballistic protection, good ricocheting capability, superior mobility as well as a modular design adaptable to various missions.

The optimized body angles of its structure grants PF Viper a reliable constitution for a superior protection resulting in an excellent level of built-in survivability.

The PROFORCE PF Viper is integrated with a fully independent suspension system which provides controlled mobility for all terrain. The monocoque body structure and optimized sidewall angles are designed for increasing the ballistic protection of the vehicle. The PF Viper Mine Resistant Ambush Protected (MRAP) vehicles which were exhibited will help the Nigerian Army troops in patrolling mine infested roads and ambush routes while safeguarding lives and property in Nigeria.

© PROFORCE





## Enhancing Mission Effectiveness

INTRACOM DEFENSE (IDE) is a highly acclaimed Defense Systems Company in Greece, with an outstanding record of participation in domestic programs and exports to quality-driven international customers.

IDE utilizes high-end technologies in the design and development of advanced products in the areas of Missile Electronics, Tactical IP Communications, Integrated C4I Systems, Surveillance, Hybrid Electric Power Systems, and Unmanned Systems. The Company retains its international recognition through the long standing participation in European and NATO new technology development programs. Utilizing advanced production capabilities and large-scale project management know-how, IDE is a key player in the high technology sector of the Hellenic Defense Industry.



[www.intracomdefense.com](http://www.intracomdefense.com)

### Naval Group lays the keel of the first defence and intervention frigate (FDI)

On Thursday 16 December in Lorient, Naval Group laid the keel of the first defence and intervention frigate ordered by the French defence procurement agency (DGA) and destined to the French Navy. This step marks the beginning of the assembly of the ship in the construction hall. The frigate will be delivered in 2024. It is the first of a series of five ships to be delivered between 2024 and 2030.

On the same day, the Panoramic Sensors and Intelligence Module (PSIM), the integrated mast of the FDI, was also powered up. This important milestone symbolises the start of the testing of the frigate's complete combat system, several months before its final integration on the ship.

Pierre Eric Pommellet, CEO of Naval Group, said: "We are proud to be here today to mark this major

milestone in the industrial production of the first defence and intervention frigate for the French Navy. These multi-role, cyber-secure and scalable ships will ensure the superiority of information and engagement as well as the ability to last at sea of the naval forces that will operate them. Already chosen by Greece for its Navy, this ship will also enable Naval Group to develop its international outreach. We remain fully committed to empower the sovereignty of France and our partner countries."

Intense industrial activity at the Naval Group Lorient site: designer, builder and integrator of the ship.

Five FDI frigates intended will be ordered by the French defence procurement agency (DGA) for the French Navy. This program reinforces the technological lead of the French naval industrial base, and of Naval Group in particular.

The first of the series will be named Amiral Ronarc'h, after a great admiral, Chief of Staff of the French Navy between 1919 and 1920, who distinguished himself during the First World War at the head of marines and sailors.

The FDI program will support employment in the shipbuilding industry throughout France and, more particularly, in Lorient and its Naval Group site.





### Industrial key figures

- 100% digital conception - zero paper plans
- Redundant and distributed IT architecture based on two data centres
- 1 million hours of production work for each unit of the series at Naval Group Lorient site
- 1 million hours of conception and development for the program
- More than 1,200 Naval Group staff working full time on the programme
- 400 subcontractors

### Many export opportunities

Naval Group is positioned on the segment of intermediary tonnage ships with Belh@rra®, the name of the FDI frigate for export markets.

Following the signature on 28 September 2021 of a memorandum of understanding by the Greek Minister of Defence, Nikolaos Panagiotopoulos, Pierre Eric Pommellet, CEO of Naval Group and Eric Béranger, CEO of MBDA, negotiations are underway for the acquisition by Greece of three FDI HN frigates and one in option, all to be built in Lorient, as part of a strategic partnership between France and Greece.

### An innovative, 100% digital and cyber-secure multi-role combat frigate

The FDI is a high sea vessel with a 4,500 tons class displacement. Multipurpose and resilient, she is capable of operating, alone or within a naval force. She offers capabilities for all types of warfare: anti-surface, anti-air, anti-submarine and as well as for special forces projection. Bringing together the best of French naval technologies on a compact platform, the FDI is a powerful and innovative frigate, designed to meet the evolution of threats.

It is the first frigate to benefit from a digital architecture that will allow her continuous

adaptation to technological and operational evolutions. As a result, the FDI will be able to address current and future threats and to handle always more data.

The FDI will be the first French frigate natively protected against cyber threats, with two data centres virtually accommodating a great part of the ship applications. The FDI introduces the concept of a dedicated system for asymmetric warfare. This system will enable the coordination and conduct of the fight against small and close air and surface threats, including booby trapped boats.

Strongly armed (Exocet MM40 B3C anti-surface missiles, Aster 15/30 anti-air missiles, MU90 antisubmarine torpedoes, artillery), the FDI is able to embark simultaneously a helicopter (10 tons class such as NH90) or the future Joint Light Helicopter and an unmanned aerial vehicle (up to 700kg). She can also receive a Special Forces detachment with their two commando boats. They are equipped with the new generation Seafire radar with four fixed panels, developed by Thales, which, combined with the missile delivery system, offers unmatched area defence capabilities

### Technical specifications

- displacement: 4,500 tons class
- length: 122 meters
- beam: 18 meters
- max. speed: 27 knots
- autonomy: 45 days
- accomodation: 125 + 28 passengers



### **Damen Shipyards Cape Town lays keel for third South African Navy Vessel MMIPV**



© Damen Shipyards Cape Town

On 22 October 2021, Damen Shipyards Cape Town (DSCT) held a keel-laying for the third Multi-Mission Inshore Patrol Vessels (MMIPV) that DSCT is building for the South African Navy. The MMIPV vessels will augment South Africa's maritime security by enhancing the country's capability to respond effectively, rapidly and cost-effectively to threats such as illegal trafficking and fishing.

The keel laying ceremony is a maritime tradition that dates back to the time of wooden ships and is said to bring luck to the ship during construction and to the captain and crew during the vessel's lifetime.

The tradition involves placing a newly minted coin on the keel and building over it. The coin laid at the DSCT event was a commemorative medal made in honour of the late President Nelson Mandela's 1993 Nobel Peace Prize win. The coin was placed on the keel by the Chief of the Navy (Vice Admiral Hlongwane).

Speaking at the event, CEO of ARMSCOR, Adv. Solomzi Mbada, stated that "the acquisition strategy for this project included Commercial-Off-The-Shelf (COTS) equipment, as well as compliance with the dti 60% local content shipbuilding designation requirement, Defence Industrial Participation (DIP) and National Industrial Participation (NIP). This ensured that ARMSCOR could maximise local participation and ensure that the vessels can be supported locally, thereby minimising the life cycle support costs. The strategy further acted as an impetus for the shipyard to improve its local infrastructure and investment in human resources, creating jobs that are much needed to boost the South African economy and help reduce the high unemployment rate.

Speaker Vice Admiral Mosuwa Samuel Hlongwane, Chief of South African Navy, said: "I would like to thank the DSCT team for ensuring that the requirements as articulated by the South African Navy have been brought to light. Amidst the challenges of COVID 19, you have risen to the occasion".

### **Morocco buys Israeli counter-dronesystem Skylock Dome**

The Moroccan Defence Forces has purchased the Israeli counter-drone system Skylock Dome, according to a Nov. 21 post on its official Facebook page. The Skylock Dome is developed by bDSSy Skylock Systems, a subsidiary of Avnon. SKYLOCK, is a leading authority for the design and production of anti-drone technologies for detection, verification and neutralisation of unauthorised drones. Our experts develop modular, multi-layered anti-drone systems and countermeasures, delivering comprehensive solutions for airports, critical infrastructures, military bases and national events against evolving drone threats. The SKYLOCK solutions enable governments, municipalities and HLS organisations to anticipate and rapidly respond effectively to unlawful drone incursions.

### **Turkey donates military vehicles to Somali National Army**

According to Turkish Newspaper Daily Sabah, Turkey has recently delivered a donation of military vehicles, including trucks and ambulances, to the Somali National Army (SNA) as part of Ankara's support for the nation's military. Senior military officials received the donation after a ceremony at the Turkish Embassy in the capital of Mogadishu.

### **France determined to end Sahel operations**

French President Emmanuel Macron announced in July that by 2022, France intended to close all of its military bases in Mali. French soldiers have built a presence in northern Mali over the last decade after helping to keep the extremists from power in a military intervention in 2013. The French troops have left the Kidal and Tessalit bases. That process in northern Mali is part of a bigger plan by France to withdraw troops fighting Islamist extremists in the Sahel region.

President Macron had planned to travel to Mali for his first meeting with the country's transitional leader, Colonel Assimi Goita, but canceled the visit due to the worsening COVID situation in Europe.

### **Kenya to receive Hizir armored vehicles.**

In 2020, the Turkish defense company Katmerciler won a tender from Kenya's Defense Ministry for the procurement of armored vehicles, USD 91.4m worth contract to export armored vehicles to the African country. The contract includes 118 units of Hizir armored vehicles along with spare parts and maintenance tools. The delivery of vehicles will begin in 2022 and will be completed in 2023.

### NAF REVIEWS SAFETY STRATEGIES FOR ENHANCED AIR OPERATIONS



© [www.airforce.mil.ng](http://www.airforce.mil.ng)

The need to continually review and evaluate key safety strategies affecting Nigerian Air Force (NAF) operations while ensuring the Service remains a credible reference point for maintenance of high safety standards, was at the forefront of discussions at the just concluded 2021 NAF Safety Review Board (SRB) meeting. In his remark during the meeting, the Chief of the Air Staff (CAS), Air Marshal Oladayo Amao disclosed that as a highly technical Service operating sophisticated aircraft, equipment and military hardware, flight safety should be inherent in all NAF daily activities.

He went on to state that the meeting focused on the steps taken by various NAF units towards addressing safety issues highlighted by the standing NAF Safety Audit Committee set up earlier in the year to chart a way forward in maintaining high safety standards in aircraft operations. Air Marshal Amao further emphasized that the meeting should serve as a veritable platform for addressing all safety concerns so as to proffer realistic and lasting solutions to flight safety issues. According to the CAS, "Overall, the essence of the meeting must be geared towards making the NAF a safer, more effective and efficient instrument of National Power." Earlier, the Chief of Standards and Evaluation (COSE), Air Vice Marshal (AVM) Olusegun Philip stated that the SRB, as the designated safety management body, is primarily tasked with appropriating safety policies and guidelines for the entrenchment of safety culture in the NAF. He also disclosed that so far, about 100 NAF personnel have undergone various safety courses within and outside the country in the last 6 months. According to him, efforts were on to collaborate with the United States Air Force to organize an in-country safety management training for more NAF personnel before the end of the year. AVM Philip went further to state that training activities at Nigerian Air Force Institute of Safety which were hitherto suspended following the outbreak of COVID-19 pandemic will soon strata through effective Monitoring and Evaluation.

### EDGE Signs C-130 Programmed Depot Maintenance (PDM) and Upgrades Contract with Tunisian Air Force



© **DBDC**

On 18 November 2022, Dubai, EDGE Group entity, AMMROC, a leading provider of military maintenance, repair, and overhaul (MRO) services in the region and part of the EDGE Group, announced they have signed a contract with the Tunisian Air Force (TAF) to perform Programmed Depot Maintenance (PDM) and upgrades on a C-130 aircraft. The aircraft was recently delivered by TAF personnel to AMMROC's MRO facility in Al Ain, UAE, with work now well underway following aircraft induction. The contract is expected to last six months and will involve a full structural inspection followed by the customer-driven upgrade requirements.

Speaking on the significance of the contract, Hareb Al Dhaheri, AMMROC CEO, said: "AMMROC is honoured and delighted to welcome back one of our marquee customers, the Tunisian Air Force, to our facilities. As the region's only authorised Lockheed Martin C-130 Service Centre, AMMROC is committed to ensuring customer mission readiness, whilst delivering industry leading MRO services within our new state-of-the-art facility in Al Ain. AMMROC has extensive experience on the C-130 platform, and we are committed to adding value for our customers through reducing turnaround times and ensuring best-in-class, localised solutions through our highly skilled workforce."

With scope to support more than 35 different fixed and rotary wing aircraft types, AMMROC operates an international centre of excellence in military aircraft MRO that successfully meets the dynamic needs of military operations. AMMROC is part of the Mission Support cluster of EDGE, an advanced technology group that ranks among the top 25 military suppliers in the world.

### GENERAL KIBOCHI INAUGURATES NAROK FOB

The Kenya Air Force (KAF) on Tuesday 21 December 2021, marked a new milestone following the inauguration of Forward Operating Base, Narok (FOB Narok) by the Chief of the Defence Forces (CDF) General Robert Kibochi. Narok FOB was established on 27 November 2018 and forms part of KAF's strategy in mission readiness through modernisation in ensuring a Premier Air Force that is responsive to the current and foreseeable security challenges and opportunities.

### **U.S. special operations forces train alongside partners in Mauritania**



© Africom

U.S. and Mauritanian special operations forces completed a Joint Combined Exchange Training Nov. 10, 2021, in Nouakchott, Mauritania.

“The high level of readiness and interoperability we collectively achieved is a testament to the professionalism of the teams and our strong enduring partnership.” - Col. Amy Bogiel

“Our U.S. and Mauritanian teams put together an exceptional training event,” said Col. Amy Bogiel, command surgeon, U.S. Special Operations Command Africa. “The high level of readiness and interoperability we collectively achieved is a testament to the professionalism of the teams and our strong enduring partnership.”

JCETs enhance the readiness of U.S. and partner forces while also improving interoperability between nations. The exercises help set the foundation for sustainable and productive military relationships.

During the JCET, U.S. special operations teams and their Mauritanian counterparts trained for a month on marksmanship, small unit tactics, infiltration techniques, interdiction operations, combat casualty care, and mission planning and execution.

“The JCET is yet another excellent example of the close and enduring security partnership between the United States and Mauritania,” said U.S. Ambassador to Mauritania Cynthia Kierscht. “Mauritania has proven to be a consistent partner in efforts to promote regional security through both military and civil action.”

This training event was one of multiple recent training events in Mauritania designed to increase the U.S. and Mauritanian security cooperation and interoperability. Mauritania hosted Flintlock, the premiere annual special operations exercise in West Africa, in 2020 and is scheduled to participate again in Flintlock in 2022.

### **ASOB ORGANISES PRE-SELECTION AND ASSESSMENT**



© <https://gafonline.mil.gh>

The Army Special Operations Brigade (ASOB) has organized a pre-selection and assessment exercise for personnel of the 64 Infantry Regiment at the Asutsuare Training Camp from 19 to 24 December 2021. The exercise was adapted to test the mental and physical endurance of participants to select eligible candidates for the Basic Special Forces Course scheduled to commence next year. At the end of the selection exercise, 58 participants qualified to the next stage of the training.

### **Ghana Air Force to receive overhauled Mi-171Sh helicopter**

The Czech Republic's state enterprise LOM PRAHA s.p. has completed the overhaul of a Ghana Air Force Mi-171Sh helicopter, which was recently seen undergoing engine runs at the company's facilities.

On 12 October 2021, LOM PRAHA TRADE announced that has reached an agreement to overhaul an Mi-171Sh helicopter. According to the contract the helicopter must be repaired within the timeframe shorter than standard period. Our customer has good reason to shorten the repair time. The customer will use the helicopter in the fight against the Covid-19 pandemic. The helicopter provides, among other things, the transport of medical supplies and personnel to remote and less accessible parts of the country.

The signing ceremony was attended by Brigadier General, Moses K. Gyeke Asante, Director of Legal Services of the Ghana Armed Forces; Chief Director of the Ministry of Defense, Evans Agbeme Dzikum; Ambassador of the Czech Republic to Ghana, Ján Fűrý, Economic Diplomat of the Embassy of the Czech Republic, Robert Hrubý; Business Development Manager LOM PRAHA TRADE, Martin Kulich and others. This was not LOM PRAHA TRADE's first collaboration with Ghana. In 2019, LOM PRAHA as a subcontractor, overhauled an Mi-8 by performed GO carrier rotor heads (and/or) VHF radio repairs.

### PAKISTANI MISSION COMMANDER VISITS CDS



© <https://gafonline.mil.gh>

The Pakistani mission commander, Commodore Azhar Mehmood, has paid a courtesy call on the Chief of the Defence Staff (CDS), Vice Admiral Seth Amoama at his office in Burma Camp. The visit which was on Friday, 10 December 2021 was to officially inform the CDS about the presence of a Pakistani Navy Ship Alamgir and also deliberate on reviving and strengthening the exchange programme in the area of training between both countries. In his welcome remarks the CDS expressed delight about the decision of the Pakistani Navy to sail to Ghana. He recalled that he served on board some Pakistani Ships during his cadet and midshipman days and agreed that it was not too late to revisit such a wonderful concept. Commodore Azhar indicated that collaboration in the area of training was very profound on their visit agenda, emphasizing that it was a good platform for both countries to leverage on each other's expertise.

### Germany: greenlit arms deal with Egypt

Former Chancellor Angela Merkel's government approved weapons exports to Egypt before leaving office. The former German government under now ex-Chancellor Angela Merkel greenlit several controversial arms deals with Egypt before leaving office, German news magazine Der Spiegel reported this week. Then-Economy Minister Peter Altmaier sent a letter about the deals on December 7 to Bundestag President Bärbel Bas, one day before the swearing-in of Chancellor Olaf Scholz.

The weapons agreements disclosed in the letter include the delivery of three MEKO A-200 EN frigates to Egypt from Kiel-based Thyssenkrupp Marine Systems, along with 16 air defense systems from Diehl Defense, which is located in the southwestern German state of Baden-Württemberg.

### New Damen Landing Ship Transport (LST) 100 for Nigerian Navy launched at Albwardy Damen, Sharjah



© Damen, Sharjah

The new, 100-metre LST 100 for the Nigerian Navy has been launched at Albwardy Damen, Sharjah, UAE a few months ago. On completion the 100-metre, roll-on-roll-off landing ship will have the capacity to accommodate a crew of 32 and 250 Embarked Marine Forces personnel. The vessel also has deck space for vehicles, a helicopter / UAV deck and significant space for cargo, which can be loaded via both a stern and a bow ramp or using the 25-tonne main crane.

These and other capabilities will enhance the Nigerian Navy's ability to deploy troops and military hardware and vehicles in support of maritime security operations, as well as the supply of relief material in the event of disasters or other crises. Overall, it will be a critical component of power projection for the enhancement of Nigeria's maritime security at every level. The Nigerian Navy's LST 100 is scheduled for delivery in 2022.

### ASOB ORGANISES PRE-SELECTION AND ASSESSMENT

The Army Special Operations Brigade (ASOB) has organized a pre-selection and assessment exercise for personnel of the 64 Infantry Regiment at the Asutsuare Training Camp from 19 to 24 December 2021.

The exercise was adapted to test the mental and physical endurance of participants to select eligible candidates for the Basic Special Forces Course scheduled to commence next year. At the end of the selection exercise, 58 participants qualified to the next stage of the training. <https://gafonline.mil.gh>

### **The HAVELSAN Vessel Traffic Services (VTS) in NATO's Maritime Security Exercise**

The HAVELSAN Vessel Traffic Services (VTS) Software, developed to monitor, organise and manage all ship traffic movements in the straits with HAVELSAN's capabilities, was successfully used for the first time in NATO's Maritime Security Exercise.

NATO Maritime Security Centre of Excellence announced that for the first time in the history of the exercise, satellite images obtained by private space-based earth observation companies were transferred to the HAVELSAN VTS and displayed on the system. Live AIS (Automatic Identification System) traces obtained by a company participating in the exercise were also integrated into the HAVELSAN VTS and displayed. In the first two days of the NATO Maritime Security Exercise, academic presentations were shown to the participants outside of Turkey via the video conference system, HAVELSAN Diyalog.

The HAVELSAN Diyalog has been developed to meet the need for a local and national sourced video conference system where user information is kept securely. The VTS Software was developed for the Turkish Straits Vessel Traffic Services. Thanks to the system, it is possible to monitor, organise and manage all ship traffic movements in the straits by keeping the interaction with the ships at the highest level.

HAVELSAN VTS is a HAVELSAN technology product that has been developed for the safe, efficient and timely operation of vessels. HAVELSAN VTS allows uninterrupted operational management from any location through web-based technologies and has been developed with advanced technologies ensuring user friendly experience. HAVELSAN VTS offers its users an end-to-end solution. The operational sustainability assured by HAVELSAN provides an effective and unique user experience even where vessel activity is congested.

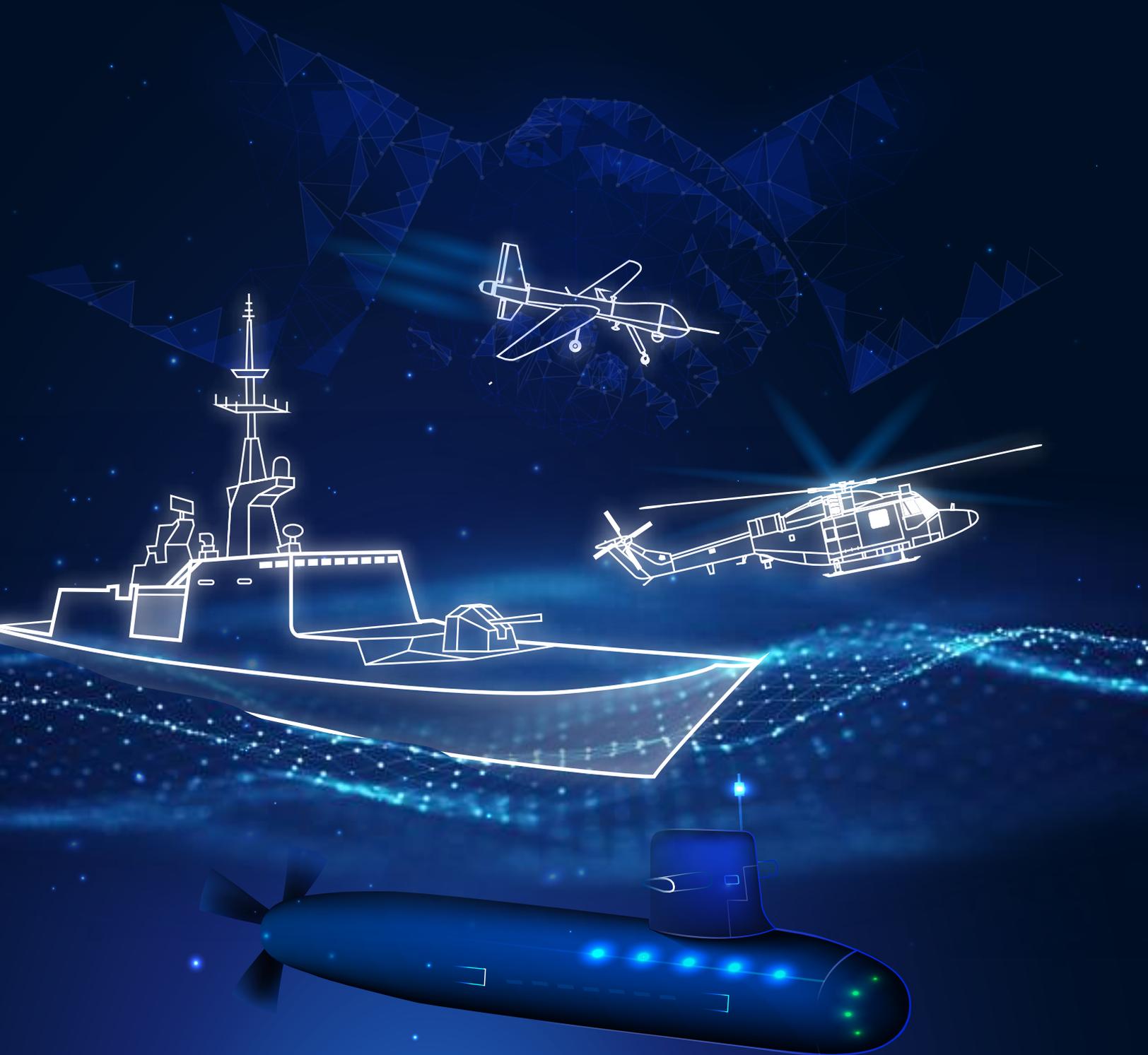
HAVELSAN VTS is equipped with all the necessary features for the effective management of navigational safety and logistics operation in the global trade network, 90% of which is conducted via sea routes. HAVELSAN VTS produces Turnkey Solutions with its expert engineers, providing complete and sustainable solutions to its customers Cusing advanced technologies.





# EURONAVAL

THE WORLD NAVAL DEFENCE EXHIBITION



**28<sup>th</sup>**  
edition

**18 OCTOBER**  
**21 2022**

**PARIS**  
LE  
BOURGET

[euronaval.fr](http://euronaval.fr)

## Niger receives second US C-130 to support enduring Sahel operations

U.S. Air Forces in Europe–Air Forces Africa delivered a second U.S. Air Force C-130H Hercules, formally transferred to the Nigerien armed forces during a Dec. 7 ceremony at the Nigerien Air Base 101 in Niamey. The delivery marks the enduring commitment of the U.S. Air Force to support continued humanitarian operations and counter violent extremist organizations missions throughout the Sahel alongside Nigerien air force partners.

“We proudly stand alongside our Nigerien partners as we celebrate the enhanced strength of our coalition force,” said U.S. Air Force Maj. Gen. James Kriesel, National Guard assistant to the commander of USAFE-AFAFRICA. “Niger has built a defense framework committed to amplifying regional security and stability throughout the Sahel.”

U.S. Embassy in Niamey Chargé d’Affaires, a.i. Susan N’Garnim added, “This momentous occasion is a testament to the long-standing, enduring and productive partnership between the United States and Niger.”

Niger received the first of the three scheduled C-130 aircraft deliveries by the U.S. in January 2021 and has employed the mobility platform for various humanitarian assistance operations and United Nations troop and vehicle movements.

Since 2013, the U.S. has partnered with the Niger air force, matching millions of dollars, to revitalize its C-130 program. Little Rock Air Force Base, Arkansas’ C-130 Formal Training Unit provided an international pilot training program, which graduated the first Nigerien female pilot and educated other pilots in the program.

The U.S. is providing enduring program support through infrastructure development, maintenance training, advisors, aviation parts, and other supporting equipment. The U.S. has recently refurbished a hangar, and funds are being provided to support the construction of a second hangar and an aviation parts warehouse.

In 2017, Niger became partners with the Indiana National Guard through the National Guard Bureau’s State Partnership Program, and USAFE-AFAFRICA has expanded these relationships through security cooperation initiatives, force development programs, and participation in the recent Executive African Partnership Flight at Ramstein Air Base, Germany. USAFE-AFAFRICA’s presence in Niger reinforces commitment to the security and stability of the region by providing operational support and training resources to partners throughout the Sahel.



©Official United States Air Force Website

# Exploring New Paths, Sharing Solutions, Showcasing Innovation and Capabilities.



## BOOK YOUR SPACE FOR #AAD2022 NOW!

21-25 SEPT 2022  
[www.aadexpo.co.za](http://www.aadexpo.co.za)



**AIR FORCE BASE WATERKLOOF  
CITY OF TSHWANE | SOUTH AFRICA**

### The ECOWAS bloc has suspended Burkina Faso after the army overthrew the country's president



**Lieutenant Colonel Paul-Henri Sandaogo Damiba**

The impoverished Sahel state is being run by a junta led by Lieutenant-Colonel Paul-Henri Sandaogo Damiba, who commands military units in the country's east.

A lieutenant colonel appointed to oversee security in Burkina Faso's capital has emerged as the leader of a military coup that overthrew President Roch Kabore after heavy gunfights in Ouagadougou. Dressed in military fatigues and a red beret, Paul-Henri Sandaogo Damiba was presented as the president of the Patriotic Movement for Safeguard and Restoration (MPSR), which recently seized power.

Angry mutinous soldiers told the AP that the government was disconnected from its forces in the field and that their colleagues were dying and they wanted military rule. The soldiers put a man on the phone who said that they were seeking better working conditions for Burkina Faso's military amid the escalating fight against Islamic militants. Among their demands are increased manpower in the battle against extremists and better care for those wounded and the families of the dead. Burkina Faso's self-proclaimed president invited the international community Thursday to help the country out of its crisis while pledging a return to normalcy in the wake of a coup.

"When the conditions are met according to the deadlines that our people will have sovereignly defined, I commit myself to a return to a normal constitutional life," said Lieutenant-Colonel Paul Henri Sandaogo Damiba in his first official address on national television.

The West African regional bloc, ECOWAS, has suspended Burkina Faso in the aftermath of a military coup, making it the third member nation to be punished for a military takeover in only 18 months. The announcement on Friday by the Economic Community of West African States (ECOWAS) comes several days after mutinous soldiers forced democratically elected President Roch Marc Christian Kabore to resign.

According to Al Jazeera news agency in his new post, Damiba proceeded to reorganise the military ranks, appointing new officers to key roles with the declared intent of battling the uprising. As a contrast to Kabore, who was faulted by the army for the rising rebel violence, Damiba has sought to present himself as an expert in countering terrorism. He studied at a military academy in Paris, obtaining a master's degree in criminal sciences from the Conservatoire National des Arts et Metiers. In June, he published a book titled *West African Armies and Terrorism: Uncertain Responses?* in which he analysed anti-terrorism strategies in the Sahel region and their limits.

The latest coup in Burkina Faso comes after the 2015 attempt against a transitional government and a few days after the arrest of a group of military personnel suspected of planning a coup but also following demonstrations by people dissatisfied with the security crisis's management after recurring attacks by terrorists leaving many civilians and military members dead.

Russia has expressed concern over the recent developments in Burkina Faso, calling for the country's president to be released as soon as possible, Deputy Director of the Information and Press Department of the Russian Foreign Ministry Alexey Zaitsev said at a briefing.

EU foreign policy chief warns of 'immediate consequences' for partnership with Burkina Faso if constitutional order not restored.

Ghanaian President Nana Addo Dankwa Akufo-Addo, the current ECOWAS chairman, called the recent spate of coups in West Africa "a direct violation of our democratic tenets." "The rest of the world is looking up to us to be firm on this matter," he said.

ECOWAS has faced criticism for its handling of the coups, particularly in Mali where mediators negotiated with the junta on the 18-month deadline for holding democratic elections. Mali's coup leader has said that won't be met, citing security conditions, and has announced a vote four years from now instead.



**SOFEX JORDAN**

# **THE XIII<sup>TH</sup> EDITION**

**OF THE SPECIAL OPERATIONS FORCES EXHIBITION & CONFERENCE**

# **SOFEX JORDAN 2022**



**31<sup>ST</sup> OCTOBER- 03<sup>RD</sup> NOVEMBER**



**THE AQABA GATE AVIATION**

**KING HUSSEIN INTERNATIONAL AIRPORT**

**BOOK YOUR STAND TODAY, CONTACT [SALES@SOFEXJORDAN.COM](mailto:SALES@SOFEXJORDAN.COM)**

**[WWW.SOFEXJORDAN.COM](http://WWW.SOFEXJORDAN.COM)**

## **IDE's Hybrid Electric Power Systems record outstanding performance during NATO exercise**

INTRACOM DEFENSE (IDE) successfully deployed its latest HEPS® HGT20K Hybrid Generator during Exercise STEADFAST LEDA 2021 (Poland, 21-30 Nov. 2021), a major NATO exercise to increase interoperability and operational effectiveness. The system was requested by NATO's Allied Rapid Reaction Corps (ARRC) HQ and the British Army to support their experimentation with advanced deployable power solutions.

The initiative is aimed at maximizing efficient use of field power and identify sustainable options without impacting operational effectiveness, while also reducing the headquarters noise and heat signature. IDE's 3-phase Hybrid Generator with photovoltaics support was deployed in a forward position in Poland, providing uninterrupted energy to critical facilities, while achieving 45% utilization in true Silent Operation mode and an improvement of 60% in fuel efficiency.



Field support and data monitoring were provided throughout the exercise by a joint team from IDE and Marshall Land Systems, leveraging their respective expertise in tactical hybrid power systems and capability sustainment.

IDE's Hybrid Electrical Power Systems (HEPS®) is a comprehensive product family of advanced hybrid power solutions, including Hybrid Generators, Hybridization Systems, Containerised Energy Storage Systems and Vehicle Hybrid Auxiliary Power Systems (VHAPS), as well as, customized integrated solutions, for tactical power, weapon systems, deployable infrastructure and vehicle platforms in defense applications.



# VLRA

## Light tactical vehicle

VLRA is a family of light tactical vehicles sharing the same all-wheel drive chassis specifically designed for military requirements. Successor to VLRA 1, 12,000 of which have been sold worldwide, it retains the latter's ruggedness, no-electronics versions, range and low gooseneck chassis.

The VLRA family comprises of a wide variety of 4x4 and 6x6 logistics and troop carriers. A Special Forces version, the Torpedo has also been sold. VLRA is already in service in numerous countries across the world and is employed in the most demanding theatres of operations.

Specially designed for military purposes, with its low gooseneck chassis and all-wheel drive, the VLRA combines sturdiness and simplicity, all for the sake of all-terrain mobility. Available with both electronized and non-electronized engines, in order to ease the maintenance on the field, this light tactical vehicle is characterized by its versatility.

Available in different versions, electronized or not, and equipped with an automatic drive (5 speed) or manual drive (6 speed), the VLRA can reach speeds up to 110 kph on the roads and can offer up to 1,200 km in autonomy. The VLRA's power does not impact its agility, as the VLRA can tackle 60% gradient and 30% side slope.



The Royal Moroccan Armed Forces (RMAF) has ordered 300 VLRA-2 4x4 light tactical military vehicles from France to strengthen the firepower and mobility of its special forces units.

These light vehicles have the configuration of a small truck. Model 2 has a range of 1,400 kilometers and a top speed of 110 kilometers per hour. The four-wheel-drive armored vehicles were equipped with Zu-23-2 guns to accomplish the assigned tasks by monitoring as much as possible the line of separation (wall) between the Moroccan forces and the separatist units. The VLRA 2 can also carry 12 soldiers in addition to the crew and is equipped with 5.56mm, 7.62mm and 12.7mm guns, as well as grenade launchers.

600 VLRA's are still in service in the French army, in more than 75 different versions. A new VLRA version was presented by Arquus in 2009. This version increases the payload by more than 1 ton, optimizes the cabin ergonomics, thus creating a third forward seat, and reduces the turning radius.

### SPÉCIFICATIONS

- **Max road speed** 110 kph according to version
- **Max autonomy** 1,200 km according to version
- **Air transport** C-130 / A400M

© ARQUUS



### **Nexter, Arquus and Thales keep their commitments and deliver the 119th GRIFFON scheduled for 2021**

On December 6, 2021, the GME (Groupement Momentané d'Entreprises) EBMR (engin blindé multi rôles) delivered to the French Army the 119th and last GRIFFON planned for 2021. The 119 GRIFFONs were first submitted to the verification operations of the French Defence Procurement Agency (DGA/SQ) at the Nexter site in Roanne before being sent to the regiments. Thus, the GME team, composed of Nexter, Arquus and Thales, is meeting its delivery target for the year 2021, in accordance with the initial order of April 2017 and the 2019-2025 military programming law.

For the record, 128 GRIFFONs had been submitted for verification in 2020, and 92 in 2019, making a total of 339 GRIFFONs since the notification of the TC2 conditional tranche of the EBMR contract. In addition, all variants of the troop transport version are now qualified, namely the FELIN, sniper section (STE), 81mm mortar (MO81), refuelling (RAV), light intervention element (ELI), engineer (GEN), medium range missile (MMP) variants, in addition to the command post vehicle (EPC) version.

Nexter, Arquus and Thales wish to highlight the quality of the industrial cooperation between all the sites involved in the programme and warmly thank their teams for the work carried out in 2021. Once again, they have shown total commitment to the execution of their mission in the service of the Army. The delivery of GRIFFON vehicles will continue at the same pace in 2022.

The GRIFFON - a 24.5t armoured multi-role vehicle - is a multipurpose support and transport vehicle and one of the components of the SCORPION programme, conducted under the supervision of the DGA. Replacing the VAB, the GRIFFON is available in several versions (troop transport, command post, health, artillery observation vehicle, MEPAC, etc.). The TT version was the first to be qualified by the DGA in June 2019. Since then, all variants of the GRIFFON VTT have been qualified. The PC version of the GRIFFON was qualified in 2020, in particular to allow the deployment in 2021 of a GTIA GRIFFON in external operations. The health (SAN) and artillery observation (VOA) versions are to be qualified in 2022.

In France, Nexter is fully committed to meeting the objectives of the SCORPION program, through the upgrade of the Leclerc tank and the development of the VBMR GRIFFON and EBRC JAGUAR vehicles within the temporary business venture between Nexter, Thales and Arquus, as well as the Lightweight VBMR SERVAL. The group's range of products also includes TITUS® and VBCI armored vehicles, CAESAR® and 105LG1 artillery systems, smart ammunition (BONUS), robots, many equipment, as well as customer service, support and revaluation.



## Nexter is selected by the Italian Army to evaluate its robotic platforms

On 13 January 2022, Nexter's robotics entity was selected by the NATO Support and Procurement Agency (NSPA), along with Milrem (programme's prime contractor) and seven other partners, in the frame of an evaluation of several ground and airborne robotics platforms for the Italian Army. The five-year programme has three objectives: to expose the state of the art in robotics; to initiate experimentation with existing platforms; and to develop a concept for an autonomous robotic system tailored to the end-customer's needs.

The first year of the programme will take place in three stages. In February 2022, the industrialists will present to the Italian technical authorities the capabilities of the platforms selected by the consultation. These will include aerial drones and light and heavy ground robots of up to five tonnes. Then, for two months, the partners will work on creating a standard to interface each robot or drone to a single C2 (command and control system). The final step will be to carry out feedback after this initial work and to launch a second evaluation in September 2022.

Nexter is recognised as a major player in the military robotics sector since the creation of its subsidiary Nexter Robotics in 2012 and the first commercial successes of the NERVA range of land-based micro robots.

Fifty-six of these modular reconnaissance robots were sold to the French Defence Procurement Agency (DGA) as part of the SCORPION programme, and several hundred of them have also been produced for foreign armies. Canada, for example, has ordered 92 NERVA LG robots – a small reconnaissance robot model that will be used for the evaluation in question.

Among the multi-purpose tactical robots (RTP), Nexter markets combat vehicles armed with an X20 cannon (OPTIO-X20), robots for logistical transport, surveillance, route opening or artillery shells transport (ULTRO).

Nexter chose the latest addition to its robotics business, the ULTRO-600, in the mule robot category, for evaluation. This multi-purpose electrically powered tactical robot can carry up to 600kg of load or accommodate a weapon system ranging from 5.56 to 12.7mm.



© Nexter

### **Gen. Townsend visits Mozambique, South Africa, Botswana to advance mutual security interests**

U. S. Army Gen. Stephen Townsend, commander, U. S. Africa Command, wrapped up a multi-country trip to the Southern Africa region, Nov. 17-23. During his travels, he visited civilian and military leaders in Mozambique, South Africa and Botswana.

The first stop of the trip was in Maputo, Mozambique, where Townsend and U.S. Ambassador to Mozambique Dennis Hearne met with Minister of Defense Cristóvão Chume, and Chief of General Staff Admiral Joaquim Mangrasso.

Earlier this year, U.S. forces conducted two Joint Combined Exchange Training programs between U.S. Special Operations Forces and Mozambican Commandos and Fuzileiros. The command has also facilitated tactical combat casualty care and combat lifesaver training courses for the armed forces.

“We have a meaningful partnership with Mozambique and our conversations sharpened our focus on our mutual security concerns,” Townsend said. “Our training and other engagements, such as the Joint Combined Exchange Training that happened this spring, demonstrate our partnership.

We look forward to finding ways to strengthen our relationship with Mozambique in the future.”

Following his stop in Mozambique, Townsend traveled to Pretoria, South Africa where he met with Lt. Gen. Lindile Yam, Chief of Staff of the South African National Defence Force, and Maj. Gen. Mzikayise Tyhalisi, General Officer Commanding, South African Army Support Division.

“South Africa is a key partner of U.S. Africa Command and a regional leader whose contributions to regional security advance our mutual interests for a stable, secure and prosperous Africa,” Townsend said. “I am excited about upcoming opportunities to deepen this partnership.”

Townsend’s trip follows other recent, high-level U.S. military engagements including a port call by the Expeditionary Sea Base, USS Hershel “Woody” Williams (ESB 4) in Cape Town in September.

Townsend’s final stop on the trip was to Botswana where he met with several high-level members of the government including Dr. Lemogang Kwape, Minister of International Affairs and Cooperation, Lt. Gen. Placid Segokgo, commander of the Botswana Defence Forces, and other senior military members to advance the partnership between Botswana and the U.S. and to discuss opportunities to increase multilateral training and military-to-military engagements.

“The Botswanan Defence Force is an excellent example of a military with a strong, professional non-commissioned officer corps,” said U.S. Marine Corps Sgt. Maj. Richard Thresher, senior enlisted leader, U.S. Africa Command, who accompanied Townsend on the trip. “Their emphasis on a robust educational program throughout the career of an enlisted soldier is commendable. I look forward to continuing the strong relationship forged through the African Enlisted Development Strategy.”

Due primarily to the global pandemic, this was Townsend’s first trip to Southern Africa since taking command.

“It’s been an honor to meet with my counterparts from Mozambique, South Africa, and Botswana” Townsend said. “Our conversations have strengthened our relationships and laid a stronger foundation for expanded military interaction in the future.”



**em** euromaritime

ÉDITION  
**2022**

JUNE 28-29-30

**2022**

MARSEILLE

**NEW DATES**

THE EUROMEDITERRANEAN  
**BLUE GROWTH**  
EXHIBITION

organisé par

NINODESIGN - Photo : Gilles Martin-Rajet

le marin

ouest  
france

GICAN

SOGENA

avec le soutien du

Cluster  
Maritime Français

### Nexter exhibited its product range at EDEX 2021

From November 29 to December 2, 2021, Nexter presented its products and know-how on a joint stand (H2-A58) with Krauss-Maffei Wegmann (KMW), its partner in KNDS, during the second edition of the EDEX exhibition in Cairo, Egypt.

The EDEX exhibition was an opportunity for the Nexter Group to promote a wide range of technological products to the Egyptian authorities and other foreign delegations. Nexter supplies the 30mm gun of the Rafale and the dedicated ammunition to the Egyptian Air Force, as well as the 20mm NARWHAL remotely operated turret to the Egyptian Navy.

In the artillery field, Nexter presented models of the CAESAR self-propelled gun in 6x6 and 8x8 versions. Due to its combat experience (more than 100,000 rounds fired in operations since 2009), its mobility and stealth, CAESAR enjoys an excellent reputation in the artillery field in France and internationally. Recently, Denmark, Morocco, the Czech Republic and Belgium selected it to renew their fire support capabilities.

Nexter also exhibited its ammunition range, from 20 to 155mm. In the artillery sector, Nexter presented 105 and 155mm conventional ammunition (shells, fuses, modular charges) and smart ammunition

(BONUS, KATANA). In addition to 120mm tank ammunition (arrow and HE), the booth features medium-caliber ammunition (20, 25, 30, 40mm) as well as 76mm naval ammunition.

Nexter also highlighted its range of medium-caliber weapons. The Rapid-fire, which will equip future French Navy ships, integrates the 40 CT gun that arms the new generations of armoured vehicles in France, Belgium (JAGUAR) and Great Britain (AJAX). The conventional land ammunition and the A3B (Anti-Aerial AirBurst) smart ammunition give it ground-to-air and ground-to-ground capabilities. Also, on display will be the 30-mm gun - the world's fastest gun, firing 2,470 rounds per minute - which powers the Rafale and Tiger helicopters, as well as the NARWHAL turret already in service with the Egyptian Navy.

Finally, two armoured vehicle models were on display at the stand: the TITUS and the VBCI. First, the 6x6 TITUS armoured vehicle incorporates a Nexter ARX 20 turret. This multi-role armoured vehicle (troop transport, reconnaissance, NBC, artillery support) is adapted to the geography of the Middle East, thanks to its engine and crossing capabilities. Furthermore, it has excellent manoeuvrability and an exceptional turning radius. The VBCI T40 is a derivative of the VBCI 8x8 infantry fighting vehicle (IFV) already in service with the French army, with increased firepower. This VBCI integrates a 40 CT unmanned turret equipped with the 40 CT gun and an MMP missile launcher pod. It covers a wide range of threats: drones, aircraft, vehicles and even heavily protected targets.



- **YOYR COMPANY'S PARTNER IN GHANA**
- **DEFENCE & SECURITY CONSULTING**
- **PR & EVENT ORGANISER**



**"TOGETHER WE  
REACH THE GOAL"**



**M&D**

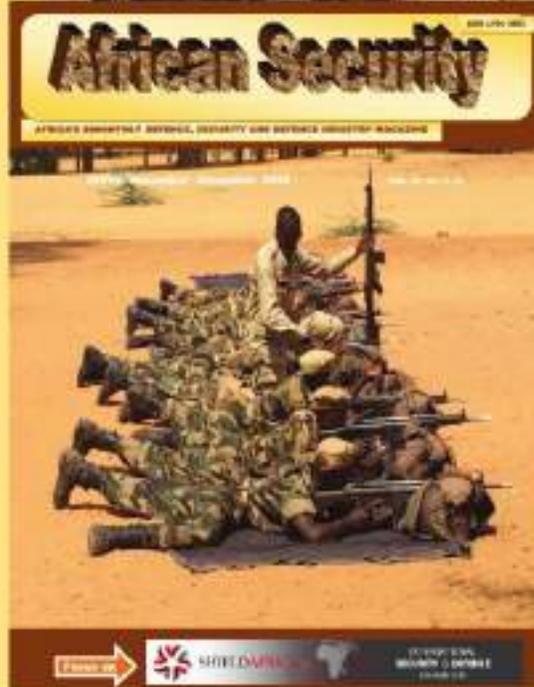
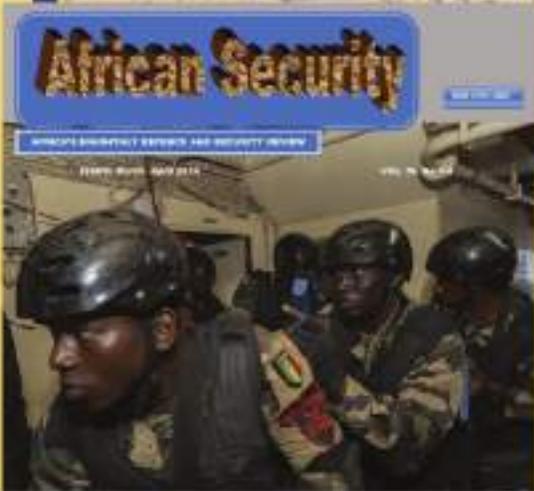
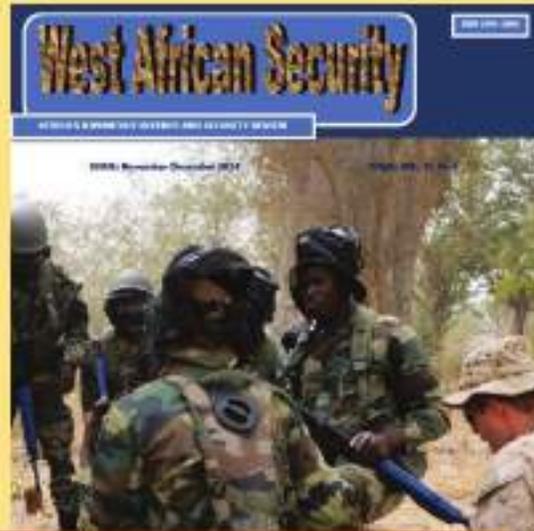
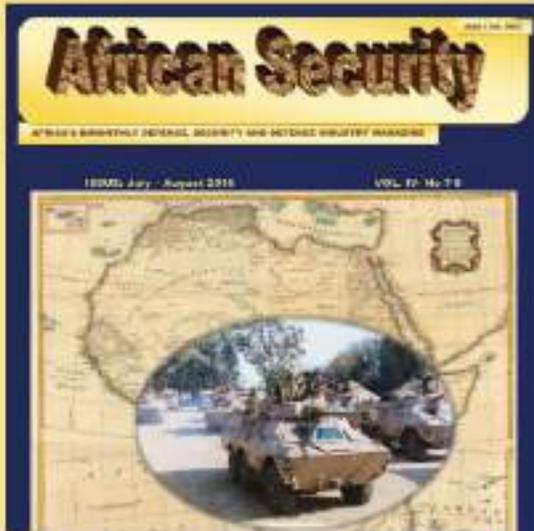
**GHANA SERVICES LIMITED**

PLOT No 121, KANAWU, TEMA, GREATER  
ACCRA, GHANA  
Tel: +233208115089  
[mdghanaservices@gmail.com](mailto:mdghanaservices@gmail.com)  
[www.maghanaservices.com](http://www.maghanaservices.com)

ISSN 1792-2962

# African Security

AFRICA'S BIMONTHLY DEFENCE, DEFENCE INDUSTRY AND SECURITY MAGAZINE



**DBDC**  
International Events  
& Special Publications

[www.dbdcgroup.com](http://www.dbdcgroup.com)