

African Security

ISSN 2547-9059

AFRICA'S BIMONTHLY DEFENCE, DEFENCE INDUSTRY AND SECURITY MAGAZINE

ISSUE: May - June 2023

VOL 10 No 5-6

**Bonus
Distribution
IDEF 2023**



HELD UNDER THE PATRONAGE OF HIS EXCELLENCY, PRESIDENT ABDEL FATTAH EL-SISI
THE PRESIDENT OF THE ARAB REPUBLIC OF EGYPT,
THE SUPREME COMMANDER OF THE EGYPTIAN ARMED FORCES



EGYPT'S LEADING TRI-SERVICE DEFENCE EXHIBITION

EGYPT INTERNATIONAL EXHIBITION CENTRE
4-7 DECEMBER 2023



 @egyptdefenceexpo

 /egyptdefenceexpo

 @visitedex

 www.egyptdefenceexpo.com

Headline Sponsor



Platinum Sponsor



Platinum Sponsor



Media Partner



Supported by



Ministry of Defence



Egyptian Armed Forces



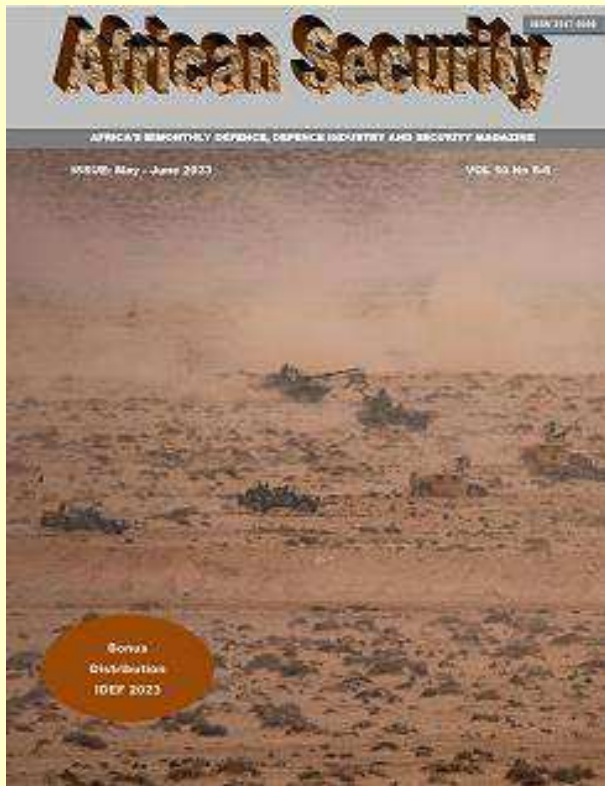
Ministry of Military Production



National Service Projects
Organisation

Organised by





Cover page photo: US Army National Guard: African Lion 2022 Photo by Spc. Mackenzie Wilden

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 LTD

27 Old Gloucester Street London WC1N 3AX, UK

E-mail: dbdcukltd@gmail.com

www.dbdcukltd.com

www.dbdcgroup.com

- * NVL SUPPORTING AFRICAN SECURITY [Pages 10-11](#)
- * Enhancing Ship Repair Infrastructure in Africa: Unlocking Economic Potential and Ensuring Maritime Safety [Pages 12-14](#)
- * Vessel Traffic Services (VTS) [Pages 16-17](#)
- * SANCAR AUSV READY FOR FUTURE MISSIONS [Pages 18](#)
- * The who is who of the New Nigerian Military Leadership [Pages 20-23](#)
- * Royal Moroccan Armed Forces [Pages 24-27](#)
- * Ivory Coast Security and Defence Forces [Pages 28-31](#)
- * Armed Forces of Liberia [Pages 32-33](#)
- * Africa Becomes Regional Market for the Turkish Defence Industry [Pages 34-35](#)
- * News in Brief [Pages 38-40](#)

Advertisement International Sales POC

- **AFRICA**

M&D Ghana services Ltd

P.O. BOX CT 4928 CANTOMENTS

ACCRA, GHANA

TEL: +233208115089/+233547473287

mdghanaservices@gmail.com

- **EUROPE: Stephen Barnard**

CEO, ADJUTANT MTCT: +49 228 3500886

M: +44 7984 033154 F: +44 1252

315324, stephen.barnard@web.de

stephen.adjutant@gmail.com

INDEX OF ADVERTISERS

EDEX 2023

NVL

ISRAEL SHIPYARDS

HAVELSAN

IMDEC 2023

EUROSATORY 2023

MD GHNA SERVICES LTD

AS

Modern Corvettes

Modern Corvettes are typically dimensionally smaller than Frigates though larger than Offshore Patrol Vessel (OPV). Differences between modern Frigates and Corvettes are blurred - some navies consider certain vessels to be Corvettes when they could technically be defined as Frigates. Corvettes supply a balanced mix of firepower, ocean-going capabilities, and rotary-wing support while presenting reasonable economic benefits in terms of construction and procurement costs. Not every major naval power emphasizes the Corvette as part of its surface fleet - though they are consistently found in numerically smaller navies.

The modern roles that a corvette fulfills include coastal patrol craft, missile boat and fast attack craft. These corvettes are typically between 500 and 2,000 tons. Recent designs of corvettes may approach 3,000 tons and include a hangar to accommodate a helicopter, having size and capabilities that overlap with smaller frigates. However, unlike contemporary frigates, a modern corvette does not have sufficient endurance nor seaworthiness for long voyages.

The operational viability of these types of ships has undergone definite developments over the years. The role assigned to this warship has thus been steadily evolving with remarkable technical developments resulting in a much wider operational ambit for the corvette vessels. Presently, many countries are coming up with technological inputs to solidify the structural format of these vessels, allowing them to play a much huger role in their maritime operations.

- **NVL Corvettes**



K130

NVL Corvettes use advanced technology to provide potent combat capabilities at an affordable price.

Embodying enhanced survivability to allow the safe completion of a wide variety of missions, NVL corvettes have great value that has been recognised by a repeat order from the German Navy. Capable of effective yet economical operation, corvettes from NVL Group represent a powerful addition to every fleet. Whatever the available budget is, corvettes from NVL Group provide user with a proven and reliable means of conducting successful naval combat operations, whenever the need arises.

NVL Corvettes are optimised for the required combat missions. They are equipped for effective self-defence against aerial attacks, whilst the configuration as an anti-submarine, anti-air or anti-surface warfare corvette determines the operational purpose. All NVL corvettes are well-suited for conducting a broad range of high-intensity duties. These can extend from fleet protection deployments to littoral operations, including electronic warfare and intelligence-gathering assignments. NVL inherently flexible and efficient design approach ensures that corvettes have equal utility in crisis management roles, such as maritime interdiction or search and rescue. Advanced combat management systems facilitate deployment as part of a combined force, including operations alongside NATO units.

- **SAAR S-80 corvette**



Israel Shipyards unveils a new corvette, SAAR S-80. The S80 vessel joins the company's unique tailor-made solutions, designed and constructed with strict quality assurance and long-term service at the Israel Shipyards facility. Based on Israel Shipyards Ltd. (ISL) S-72 platform, from which several designs have been evolved, including the Israeli Navy Light Patrol Corvette— the RESHEF Class an advanced multi-roll vessel. The new generation of the S-80 class features greater versatility and higher payload capacity, with increased weapon suite capacity and wider spread of Electronic Warfare (EW) systems as part of the platform offensive advantages. The S80 length is 80m, she is powered by 4 diesel engines, two shaft lines, and equipped with controllable pitch propeller

N·V·L

LÜRSSEN DEFENCE
IS NOW
NVL GROUP

NVL GROUP CORVETTES

LOGISTICS AND NAVAL SUPPORT

NVL Group, formerly known as Lürssen Defence, is an independent, privately held group of renowned northern German shipyards and related companies. We choose partners with similar values, and our relationships are built on trust. We work as a team to bring our knowledge and experience to each project, supporting you locally to fulfill your naval requirements. Our corvettes incorporate advanced technologies to deliver high-performance combat capabilities at an affordable price. We also offer a wide range of services, including transfer of technology, to assist with the construction of new vessels and the conversion of existing vessels at the shipyards in your country.

**Meet our Sales Director Mr Arend Schulze at IMDEC from 29 to 30 August 2023 in Accra, Ghana – call:
Tel. +233 53 16 73 186**

For more information, call us on Tel. +49 421 6604 344 or visit our website at www.nvl.de

THE DNA OF SHIPBUILDING



system and the top speed exceeds 28 knots. The S80 will be equipped with state-of-the-art ship control system, a health management system and she will be capable of being equipped with the combat systems made by the Israeli defense industries or and any equivalent systems according to the customer requirements.

The S-80 can be adjusted to accommodate Corvette or as an OPV version, depending on the operational requirements. The S-80 allows longer range and endurance for extended periods with reduced detection risks, making it ideal for diverse applications and missions. Similar to the current Naval vessels of Israel Shipyards, the new Corvette is also supporting unique possibilities of deploying Special Forces units.

- **Gowind® corvette**



Gowind is a powerful surface combatant equipped with NATO-interoperable and combat-proven systems, designed and built by Naval Group. Gowind has been selected by four navies. Gowind offers a comprehensive set of state-of-the-art NATO-standard combat proven systems for ASW, ASuW and AAW.

The Gowind 2500 corvette is 102 metres long with a maximum width of 16 meters and a draft of 5.4 meters. The displacement at full load is around 2,800 tons. The corvette is manned by a crew of 65 sailors and the accommodation on board can accommodate up to 15 special forces operators. The aviation installations allow the use of a 10-ton class helicopter.

Gowind® integrates sensors and weapons thanks to the Setis® combat management system. Its design allows for complete transfer of technology, enabling our customers to build the ship in their own country. It is capable of managing anti-submarine, anti-aircraft and anti-surface missions.

- **A-100 Patrol Corvette**

The MEKO® A-100 Patrol Corvette is the smallest version of the A-100 family, with a displacement in the 2,200-ton class. The MEKO® A-100 Patrol Corvette is a combination of a compact and very affordable platform with powerful and flexibly.



The ship retains the aviation support and mission modularity features of the bigger vessels in the A-100 family and has the ability to be upgraded to three-dimensional warfare, utilizing the full spectrum of the MEKO® platform, combat system and mission modularity technologies. This inherent performance growth potential allows for the acquisition of the ship in a basic and very cost-effective configuration for the patrol and surveillance roles, but one that is easily upgradeable across its life to full combat roles when budgets or operational demand allows.

- **Milgem Class corvette**



Milgem Class corvettes are being built for the Turkish Navy under the Turkish national warship programme known as Milgem. The Milgem Class multimission corvettes feature stealth technologies and can perform search, rescue, patrol, observation and anti-submarine warfare operations. The keel was laid for the first vessel, TCG Heybeliada (F-511), at the Istanbul Naval Shipyard in July 2005. The Pakistani and Ukrainian Navy have acquired the Milgem class warships.

The Milgem corvette has an overall length of 99m, a waterline length of 90.5m, a beam of 14.4m and a design draft of 3.6m. The displacement of the vessel

EMPOWERING YOUR NAVAL PERFORMANCE

Foreseeing Your Naval Needs





is 2,000t. The ship can be fully operated at the sea state 5. It can accommodate 93 crew members, including the air crew.

- **Fincantieri ABU DHABI corvette**

Vessel size, high performance, transport and support capability are optimized to play different roles such as: escort, support, relief, interdiction and patrol operations, long range and able to operate in open seas missions and to manage protracted helo operations. The vessels are built following stealth principles and can accommodate different Combat System versions.

The ABU DHABI class corvettes, designed consistent with the RINAMIL rules, will be highly flexible and capable of fulfilling different kinds of tasks, from surveillance with sea rescue capacities to being fighting vessels. They are 107 meters long, 14.70 meters wide, and equipped with a combined diesel and diesel plant (CODAD), with a maximum speed of 28 knots. They can accommodate 112 persons on board. Furthermore, the corvettes are capable of operating high-speed boats such as RHIB (Rigid Hull Inflatable Boat) through lateral cranes or a hauling ramp located at the far stern. The flight deck and hangar are sized for hosting one NH90 helicopter.

- **DAMEN SIGMA 9113 Corvette**



The SIGMA 9113 Corvette for Indonesia (contract signed in 2004 and the first of four delivered in 2007), was the first of our systematic hull form series to be delivered. The SIGMA technology is

based on the experience gained by building seven generations of frigates for the Royal Netherlands Navy. DIMENSIONS Length o.a. 90.71 m Beam mld 13.02 m Depth no.1 deck 8.75 m Draught (dwl) 3.60 m Displacement (dwl) 1700 tonnes

- **Visby class corvette**



The Visby class is a warship in use by the Swedish Navy. It is the latest class of corvette adopted by the navy after the Göteborg and Stockholm-class corvettes. Its design emphasizes low visibility radar cross-section and infrared signature, and the class has received widespread international attention because of its capabilities as a stealth ship. The first ship in the class is named after Visby, the main city on the island of Gotland. The Visby ships are designed by Swedish Defence Materiel Administration (FMV) and built by Saab Kockums.

- **Freedom class**



The Freedom class is one of two classes of the littoral combat ship program, built for the United States Navy by a consortium formed by Lockheed Martin as "prime contractor" and by Fincantieri through the subsidiary Marinette Marine shipyards as a contender for a fleet of small, multipurpose warships to operate in the littoral zone. On 20 June 2020, the US Navy announced that all four Freedom LCS would be taken out of commission in March 2021, and will be placed in inactive reserve.



DIGITAL TROOPS



HAVELSAN is an establishment of
Turkish Armed Forces Foundation.

www.havelsan.com



[havelsanglobal](https://twitter.com/havelsanglobal)



[havelsanglobal](https://www.instagram.com/havelsanglobal)



[Havelsan](https://www.linkedin.com/company/havelsan)



[havelsanglobal](https://www.youtube.com/channel/UC...)





LÜRSSEN DEFENCE
IS NOW
NVL GROUP

NVL GROUP

SUPPORTING AFRICAN SECURITY

OPV 80 class offshore patrol vessel

Effectively protecting African values

NVL Group understands the growing importance of the geostrategic aspects of the African continent in respect to 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.

Customised 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, minehunters 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 multimission platforms provide permanent maritime security in the operational area due to their endurance and excellent seakeeping 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 to develop 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



FIB 25 fast interceptor boat

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 coastguard 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
info@nvl.de
www.nvl.de



N·V·L

THE DNA OF SHIPBUILDING

Enhancing Ship Repair Infrastructure in Africa: Unlocking Economic Potential and Ensuring Maritime Safety

Introduction

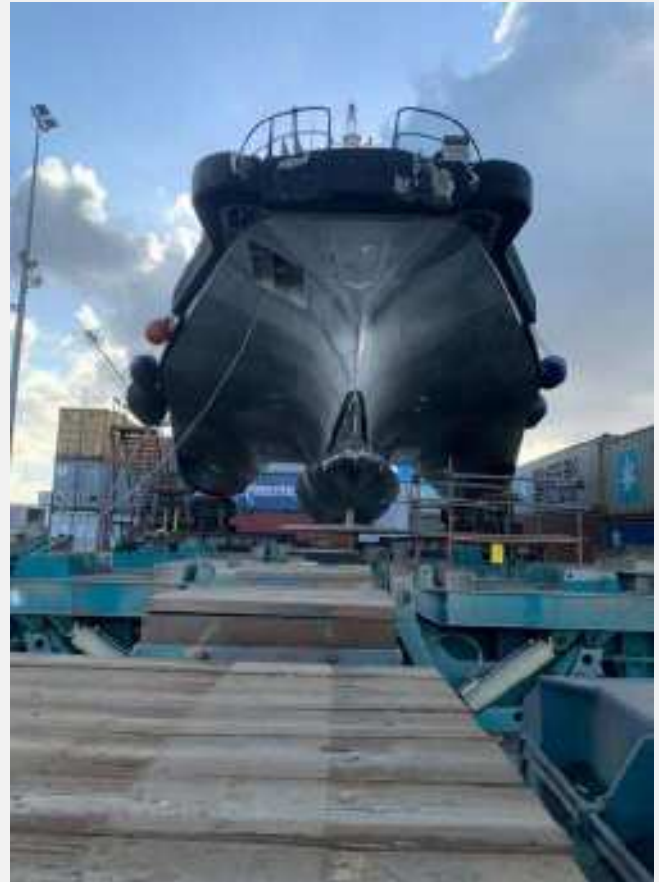
Africa's maritime industry holds significant economic potential, serving as a gateway for international trade and transportation. However, the ship repair infrastructure in Africa faces various challenges, including outdated facilities, limited access to technology, and a shortage of skilled labor. To address these issues and unlock the industry's full potential, it is crucial to identify and capitalize on opportunities for improvement. This editorial explores the opportunities for enhancing ship repair infrastructure in Africa, such as public-private partnerships, investment in technology and training, increased collaboration between countries, involvement of local African Navies, and the potential contribution of Israel Shipyards Ltd. as an international player. By embracing these opportunities, African nations can bolster economic growth, create job opportunities, and ensure maritime trade and transportation safety and efficiency.

Opportunity for Infrastructure Development and Investment

One of the key opportunities lies in attracting investment for the development of modern ship repair facilities and equipment. Africa's ship repair industry has the potential to benefit from the expertise and experience of international players like Israel Shipyards. Renowned for its ship repair and construction capabilities, Israel Shipyards can play a crucial role in supporting the development of ship repair infrastructure in Africa. Through strategic partnerships with African governments and local entities, Israel Shipyards can provide technical know-how, investment, and access to advanced ship repair technologies. This collaboration can enhance the capabilities and efficiency of ship repair facilities in Africa, attracting more international clients and boosting economic growth in the region.

Developing a Skilled Workforce

To overcome the shortage of skilled labor, African countries should prioritize the establishment of training programs and vocational opportunities focused on ship maintenance and repair. Israel Shipyards can contribute by sharing its knowledge and experience in training programs, providing technical training to local workers, and establishing partnerships with local educational institutions. By collaborating with Israel Shipyards, African nations can benefit from their expertise in developing a skilled workforce, which is crucial for the long-term sustainability and growth of the ship repair industry in Africa. These training programs can include



certifications that equip workers with the necessary skills to meet industry demands.

Regulatory Framework and Collaboration

Creating a regulatory framework that incentivizes the use of modern facilities and equipment can attract international shipping companies, bolstering the growth and development of the maritime industry in Africa. Israel Shipyards can assist African countries in formulating effective regulatory policies based on their experience and international best practices. Additionally, the collaboration between Israel Shipyards, local African Navies, and African governments can facilitate knowledge exchange, foster technological advancements, and promote the development of shared ship repair infrastructure and services. Local African Navies can contribute their expertise in maritime operations and safety regulations, ensuring that ship repair facilities meet the highest standards of safety and efficiency. This collaboration leads to safer and more sustainable maritime operations in the region.

Moreover, African Navies possess valuable relationships with other navies and maritime organizations, both regionally and globally. These relationships can be leveraged to attract international collaborations, knowledge exchange

programs, and joint initiatives focused on capacity building and best practices in ship repair. By working together, African nations, African Navies, and Israel Shipyards can establish a robust and competitive ship repair industry in the region.

Specialized Clusters and Local Supplier Development

Encouraging the development of specialized ship repair clusters can lead to economies of scale, attract investment, and drive innovation. With its expertise in specialized ship repair services, Israel Shipyards can support the establishment of such clusters in Africa. By sharing knowledge and best practices, Israel Shipyards can assist in identifying niche markets and specific areas of expertise for African countries to focus on. Furthermore, Israel Shipyards can collaborate with local suppliers and manufacturers to develop a local supply chain, reducing dependence on imported materials and services. The involvement of African Navies in these specialized clusters can provide valuable support, such as leveraging their relationships with other navies and promoting regional collaboration. This collaboration promotes job creation, technology transfer, and the overall economic development of African nations.

Advantages of Involving Local African Navies

The involvement of African Navies in the enhancement of ship repair infrastructure brings several advantages. Firstly, local navies have a deep understanding of regional maritime challenges, including climate, security concerns, and unique operational requirements. Their involvement in the planning and development of ship repair facilities ensures that these facilities are designed to address specific regional needs, enhancing their overall effectiveness. Secondly, local navies can contribute to the enforcement of maritime regulations and standards, ensuring that ship repair facilities comply with international safety and environmental guidelines. This collaboration leads to safer and more sustainable maritime operations in the region.



Moreover, local African navies possess valuable relationships with other navies and maritime organizations, both regionally and globally. These relationships can be leveraged to attract international collaborations, knowledge exchange programs, and joint initiatives focused on capacity building and best practices in ship repair. By working together with local African navies, Israel Shipyards can tap into these networks and establish partnerships that drive innovation, improve operational efficiencies, and strengthen the overall maritime ecosystem in Africa.

Case Study: Israel Shipyards and Local African Navies in Action

To illustrate the potential impact of collaboration between Israel Shipyards and African Navies, let's consider the real example of their successful partnership in Equatorial Guinea. Equatorial Guinea recognized the need to enhance its ship repair infrastructure to attract international shipping companies and foster economic development. In collaboration with Israel Shipyards, the country established a ship repair facility in a strategic port location. Equipped with advanced technologies and adhering to international safety and environmental standards, this facility offers comprehensive repair services, including hull maintenance, engine overhauls, and electrical systems upgrades.

Israel Shipyards worked closely with Equatorial Guinea's government and local maritime authorities to tailor the ship repair facility to the specific needs of the country.

This collaboration involved knowledge transfer programs, skills development initiatives, and to tailor the ship repair facility to the specific needs of the country. capacity-building efforts to empower the local workforce and ensure the long-term sustainability of the facility. By leveraging Israel Shipyards' expertise and experience, Equatorial Guinea has transformed into a regional maritime hub, attracting international clients and driving economic growth.

Conclusion

Enhancing ship repair infrastructure in Africa is critical for unlocking the economic potential of the maritime industry and ensuring maritime trade and transportation safety and efficiency. As an international player with extensive expertise in ship repair and construction, Israel Shipyards can significantly contribute to this endeavor. Through collaboration, investment, knowledge sharing, and the involvement of African Navies, African nations can leverage Israel Shipyards' experience to bolster their ship repair capabilities, attract international clients, and foster sustainable economic growth. By embracing these opportunities, Africa can solidify its position as a key player in the global maritime landscape while reaping the benefits of enhanced ship repair infrastructure, job creation, technology transfer, and a safe and efficient maritime environment.

© Photos credit: Israel Shipyards





Burma Hall, Ghana Armed Forces Headquarters
29-30 AUG 2023 Accra, Ghana



Hosted by

**Rear Admiral Issah
Adam Yakubu**
- Ghana Navy -

Invites you to participate



The 3rd International Maritime Defense Exhibition and Conference (IMDEC) hosted by Ghana's Navy will feature the largest gathering of Africa's maritime industry, as we host regional and international Chiefs of Naval Staff to address the principal issues facing maritime security on the continent. This unprecedented event will showcase the latest technologies in maritime security and strong resolutions and recommendations to surmount the daunting maritime challenges confronting Africa's blue economy.

The International Maritime Defence Exhibition and Conference (IMDEC), through a series of unique platforms, the two-day event will assemble Africa's regional Naval Forces, Naval Industries, and relevant stakeholders across the globe to help find appreciate solutions to the challenges and threats and discover the new technologies to better fight against and curb illicit activities at sea.

What to Expect

- ▶▶ **300+ Attendees**
- ▶▶ **70+ Countries Represented**
- ▶▶ **12+ Chiefs of Navy**
- ▶▶ **35+ Speakers**
- ▶▶ **40+ Sponsors and Exhibitors**
- ▶▶ **12+ Media Partners**
- ▶▶ **1 Site Visit**
- ▶▶ **1 Cocktail Reception**
- ▶▶ **1 VIP Dinner**

Organised by



**Interested in finding out more about
how you can participate?**

Email us directly at partnerships@gmevent.ae or call **+971 52 969 7209**
and a member of the team will be happy to help.

Visit: imdec africa.com



SCAN THE
QR CODE TO
LEARN MORE

Vessel Traffic Services (VTS)

HAVELSAN MATRA Vessel Traffic Services (VTS) have become increasingly crucial in contributing to safety and maritime traffic efficiency. HAVELSAN has a web-based cloud technology system that can run on premise or cloud, providing a solution by minimizing costs and improving accessibility, performance, and security. The system is capable of integrating operational sensors. Operational sensors maybe Radars, Electro Optic Systems, Direction Finders, AIS Receivers, Meteorological Sensors, Oceanographic Sensors, or any other sensor which is operationally needed. HAVELSAN MATRA (VTS) solution can process a large amount of data produced by all the participants of the maritime environment. The system can use the data to predict and prevent accidents, detect environmental pollution and marine traffic anomalies, and analyze traffic in real time.

HAVELSAN has a coastal surveillance and marine traffic management solution in which all related sensors and connected agencies can be integrated, enabling the exchange of information for a more reliable outcome with its easy integration interface architecture.

The radar and AIS tracks are combined by fusion & correlation modules and shown on the operational map. System tracks are linked automatically with stored vessel data. Vessel Database Management (VDM) module manages information about vessels, vessel groups, crew, port, voyages, cargo types, etc. The operator can add, delete, update, and query all this information from the vessel database.

The operator will be able to set the time of the vessel records manually. The operator will take detailed vessel and crew reports by using reporting functions.

The system will supply planning and management of missions, planning of the route, number of platforms, etc. It will also include the location of stations, hospitals, and logistic support places (like oil, food, and water). During mission planning for the intervention of an incident, the most suitable platform will be calculated and proposed to the system operators for the mission. Mission areas will be displayed on the geographical map layer during the planning. The system will supply tools for planning routes using waypoints and route legs. During the planning of routes, the kinematic limits of the platform will be controlled. In case of exceeding or violating these limits, the system warns the operator by using advanced alarm management functionality. The route-time diagram for the probable course of the ships assigned to the route is calculated and displayed with the encounter points to the operator.

Notification management component provides functionalities to create rules and thresholds and get visual & audio alerts. The system will allow the user to define rules about operational objects, set threshold values, defining areas both for track management and operational objects. For each update, the system will check the update. If any predefined criteria are met, an alert is triggered so the user can be alerted visually and with audio based on his preferences. Published notifications are filtered according to the user rights and sent to users with the privilege to display.

© . HAVELSAN





Search & Rescue (SAR) operators can define the search and rescue region, can divide this region into areas, prioritize these areas, assign task organization elements to these areas and share this information with the relevant units. Various search and rescue patterns and coverage volume will be supported to display and control the SAR execution activities.

Tactical Record and Replay (TRR) module provides the system with data recording and replaying functionalities. TRR records the ship movements (Radar Tracks, AIS Tracks, and Correlated System Tracks), screen records, voice communication, EO and Radar video, meteorological data, sensor status, and notification records for future replay. Historical data is available for regular sea traffic activities, and methods mentioned above can be supported by Artificial Intelligence (AI) based algorithms to detect marine traffic anomalies. This anomaly detection will also filter down the number of “dark vessels” to be investigated and focused on. Risk assessment and decision support aids, as part of HAVELSAN VTS, will enable the user to make a risk assessment and create rule-based alarms, warnings, or actions to assist the users further in utilizing the knowledge-based features of VTS in classifying or identifying the ship.

Currently, there are nearly 500 VTS systems in almost 50 countries. Given the coverage of those systems and the number of their sensors (Radar, EOS, AIS, RDF, etc.), HAVELSAN VTS installed on the Turkish Straits is one of the world's largest VTS systems.

It is estimated envisaged that the renewed and upgraded system will help improve the existing

vessel traffic services in the Turkish Straits rise to a higher level in terms of quality and quantity and boost the safety and security of the navigation, life, property, and environment, which are the main objectives of navigation, by namely safety of life, property, and environment along with safer and faster rapid vessel traffic.

Developed by HAVELSAN engineers, HAVELSAN VTS's open-source software architecture, expandable modular structure, customizable modules & algorithms, advanced fusion & correlation technology, and operational sustainability with HAVELSAN's assurance offer a practical solution and a unique user experience in territories where the vessel activity traffic is congested heavily. HAVELSAN VTS awaits to serve both domestic and global users of the e-maritime community by integrating cutting-edge state-of-the-art technologies into its own body.



SANCAR AUSV READY FOR FUTURE MISSIONS

With the developing technology, the frequency and variety of security threats have increased for the global navies. Autonomous unmanned surface vehicles integrate modern technology into military units by sensing the environment using sensor systems, performing crucial tasks such as ISR (intelligence, surveillance, reconnaissance) and defense without personnel within the scope of the requirements of digital battlefields. In the upcoming period, armed unmanned surface vehicles will become an inevitable force multiplier of modern navies and respond to asymmetric threats. In response to the needs of modern navies, HAVELSAN produced the SANCAR Armed Unmanned Surface (AUSV) Vehicle in cooperation with Yonca-Onuk Shipyard.

Since modular construction technology is used in the production of SANCAR AUSV, additional payloads can be easily integrated into the platform to fulfill the expected duties while performing different tasks that may arise in the future. The sophisticated environment of the naval domain and the complexity of naval operations could be managed via tactical concepts of the autonomous vehicle.

SANCAR AUSV has communication infrastructure without interruption, based on RF/GSM/SAT systems used all together. This enables it to perform operations on long distances effectively.

SANCAR AUSV is the first unmanned system using ADVENT ROTA (ADVENT C4ISR System that was designed for unmanned systems, which has come to life in many elements of the Turkish and International Navies) as a mission system. SANCAR AUSV can be controlled from a mobile Ground Control Station, which has an ADVENT C4ISR mission system In accordance with NATO Interoperability Standards. Thanks to this, it provides the ability to be used on other naval platforms using ADVENT. Thus, SANCAR can transfer duties between different ships, performing network-centric operations with manned/unmanned platforms as a team and offering easy adaptability for swarm operations. In this respect, SANCAR AUSV has a technology infrastructure that surpasses its global competitors.

Developed to autonomously fulfill the duties of port/base protection, search/rescue, intelligence, reconnaissance, surveillance, patrol, surface

warfare, and mine countermeasures, SANCAR AUSV will minimize the risks for human life, and it will enable many tasks to be carried out more cost and time effectively with modular payloads. As such, it has become one of the most versatile platforms designed.



© HAVELSAN



© HAVELSAN

It is developed using autonomous systems technologies such as artificial intelligence and data fusion. It has a length of 12.73 meters, a width of 3.3 meters, and a displacement of 9 tons. The platform can reach over 40 knots and has a cruising range of over 740 kilometers.

The platform, which can operate up to 4 sea states, also provides convenience in integrating weapon and electronic systems of different types and purposes, thanks to its modular structure. Considering the weapon systems, SANCAR AUSV has a 12.7 mm stabilized gun turret, and its defense capabilities can be increased by integrating a tactical missile system. Mini Ship Data Distribution System is also integrated into the platform. Another factor that makes SANCAR AUSV different is the integration of a telescopic mast with a navigation radar camera with a collision avoidance system. This pole structure again increases the modular structure and provides flexibility in using new systems.

SANCAR AUSV, a superior platform with many cutting-edge technologies, will prepare the world's navies for the future operational environment.



EUROSATORY

PROTECT YOUR FUTURE



17-21
JUNE 2024

PARIS

**Book
your
stand**



THE GLOBAL EVENT FOR DEFENCE & SECURITY

1,750+

Exhibiting companies
from 62 countries

250+

**Official delegations
from 150 countries**
Decision makers from
governments and
supranational organisation

62,000+

**International
trade visitors**

EUROSATORY.COM



organised by



a subsidiary of



a member of



The who is who of the New Nigerian Military Leadership

CHIEF OF DEFENCE STAFF GENERAL CHRIS MUSA



© Chief Of Defence General Chris Musa

On 23 June 2023, General Chris Musa has been appointed as Chief of Defence Staff (CDS). Major General Christopher Gwabin Musa OFR is a Nigerian Army major general who is the 18th Chief of Defence Staff of Nigeria.

General Musa was born on 25 December 1967 in Sokoto in the defunct North-Western State (now in Sokoto State) Nigeria. He hails from Zangon Kataf, southern Kaduna State, Nigeria. In 1974, Musa attended Marafa Danbaba Primary School Sokoto, and left to Model Primary School Dorowa Road Sokoto in 1978 where he remained until 1980. He underwent training in a Vocational Training Centre in Gaummi, Sokoto between 1980 and 1981.[4]

In 1981, he was enrolled into Federal Government College, Sokoto, completing his O levels in 1985. He was part of the National Cadet Corps while enrolled there. He was admitted to the College of Advanced Studies, Zaria, and was there until 1986.[4] In 1986, Musa was enrolled into the Nigerian Defence Academy, where he obtained a Bachelor of Science (Hons) on graduation in 1991 and got commissioned into the Nigerian Army as a 2nd Lieutenant. In September 1991, he enrolled as a member of the 38th Regular Course 21 in the Nigerian Defence Academy and underwent a Mechanical Transportation Officers Course in 1992. In 1993, Musa went through the Young Officers Course in Infantry, the Regimental Signal Officers

Course in 1998, and 2000, a Junior Course at the Armed Forces Command and Staff College, Jaji. Between 2004 and 2005, he went through a Senior Course at the Armed Forces Command and Staff College Jaji. Between 2007 and 2008, he earned an Advanced Diploma in Security Management from University of Lagos. Between 2012 and 2013, Musa obtained an Advanced Diploma in Defence and Strategies Course, and a Master of Science (Military Science), International College of Defence Studies, National Defence University (ICDS-NDU), Changping, China. In 2017, Musa went through a Combined Joint Land Component Commander's Course on Leadership, US Army War College.

Musa was the General Staff Officer 1, Training/Operations at HQ 81 Division. He also held the positions of Commanding Officer 73 Battalion, Assistant Director Operational Requirements at Department of Army Policy and Plans, Infantry Representative/Member Training Team at HQ Nigerian Army Armour Corps. In 2019, he was also the Deputy Chief, Staff Training/Operations, headquarters Infantry Centre and Corps, Commander Sector 3 Operation Lafiya Dole, Commander Sector 3 Multinational Joint Task Force in the Lake Tchad Region. In 2021, Musa was the Theatre Commander, Operation Hadin Kai. His last position before his appointment as Chief of Defense Staff was Commander, Nigerian Army Infantry Corps.

CHIEF OF THE ARMY STAFF MAJOR GENERAL TAOREED ABIODUN LAGBAJA



© Major General Taoreed Abiodun Lagbaja, Chief of Army Staff

Major General Taoreed Abiodun Lagbaja (born 28 February 1968) is Nigerian Army major general who is the Chief of Army Staff of Nigeria. He was appointed on 19 June 2023 by President Bola Tinubu to succeed Lieutenant General Faruk Yahaya.

Lagbaja was born in a town called Ilobu of Irepodun present day Osun State on 28 February 1968. He spent his early life in Osogbo where he attended the prominent St Charles Grammar School and Local Authority Teachers College.

He was admitted to the Nigerian Defence Academy in the year 1987 of the 39th Regular Course. He was commissioned as a second lieutenant on 19 September 1992 into the Nigerian Infantry Corps. Between 1992 and 1995, Mr Lagbaja was platoon commander of the 93 Battalion. From 1995 to 2001, he was platoon commander of 72 Special Forces Battalion. In 2001, Mr Lagbaja obtained a Bachelor's degree in Geography from the Nigerian Defence Academy. He studied Strategic Studies at the US Army War College at the Master's level.

He was an instructor at Nigerian Defence Academy between 2001 and 2004. At one time, Mr Lagbaja was a Grade 2 Staff Officer in charge of peacekeeping at the Army Headquarters Department of Army Training and Operations. Then he was a Directing Staff at Armed Forces Command and Staff College from 2006 – 2009.

By 2009, he became Deputy Chief of Staff G1 at Headquarters 81 Division and subsequently, he became Commanding Officer at 72 Special Forces Battalion Makurdi from 2012 to 2013 and 2014 to 2015. In 2016, he was named the Chief of Staff at Headquarters 8 Task Force Division, Monguno. He served as Director of Operations at the Army Headquarters Department of Army Training and Operations from January – December 2018. He was a Commander of Headquarters 9 Brigade, Ikeja, Lagos State and Headquarters 2 Brigade, Uyo, Akwa Ibom State. Before his new appointment, Mr Lagbaja was General Officer Commanding Headquarters 82 Division from March 2021 – August 2022 and Headquarters 1 Division – from August 2022 – June 2023. Earlier in 2008, he attended the Military Observers Course on Peacekeeping Wing at the Nigerian Army School of Infantry Jaji (February – May 2008) and ECOWAS Standby Force Battalion Command Post Course – Peacekeeping Centre, Bamako, Mali – (June – August 2010). He started his career as a second lieutenant and he is currently a major general, a rank he has held since September 2019.

Mr Lagbaja participated in Operation HARMONY IV in Bakassi Peninsula; United Nations Mission in the Democratic Republic of Congo (MONUC); Operation ZAKI Internal Security Operation in Benue State; Operation LAFIYA DOLE; Operation MESA/Operation UDO KA – March 2021 – August

2022 – Internal Security Operation in South-east Nigeria (Anambra/Abia/Ebonyi/Enugu and Imo States); and Operation FOREST SANITY – Aug 2022 to 2023 – Internal Security Operation in Kaduna/Niger states.

He is married to Mariya Abiodun-Lagbaja and the marriage is blessed with 2 children. Mr Lagbaja enjoys watching documentaries and reading biographies.

CHIEF OF THE NAVAL STAFF REAR ADMIRAL EMMANUEL IKECHUKWU OGALLA,



© Rear Admiral Emmanuel Ikechukwu Ogalla, Chief of Navy Staff

Rear Admiral Emmanuel Ikechukwu Ogalla, GSS psc fdc (+) MSC BSC was born on 20 December 1968 in Enugu Ezike Igbo Eze north LGA Enugu State, Nigeria. He obtained the WASC from the NMS Zaria in June 1987 where he graduated as the best boy in sciences. He had A1 in all subjects except English language. He is a member of the 39 Regular Course Nigerian Defence Academy Kaduna graduated with a BSc in Maths and was awarded sword of honour as the best naval cadet in his course. He was commissioned Sub Lieutenant 16 September 1992 and rose to the rank of Rear Admiral on 16 September 2021. He completed the Sub Technical Course Nigerian Navy Ship (NNS) QUORRA, Basic Hydrography National Hydrographic School India in May 2000, Junior and Senior Staff Courses Armed Forces Command and Staff College (AFCSC) Jaji in November 2001 and July 2006 respectively. He was a participant of National Defence Course (NDC) Course 22 and was awarded fdc (fellow defence college) in August 2014.

As part of the Course, he took part in the MSc Strategic Studies programme, University of Ibadan from 2014 to 2015.

The senior officer served on board many ships including NNS AMBE, ARADU, LANA, EKUN, AGU, QUORRA, BEECROFT, DELTA and PATHFINDER. While on board NNS EKUN he took part in the ECOMOG Operations in Liberia in 1996. Also as the Base operations officer in NNS PATHFINDER, he was responsible for coordinating anti-illegal bunkering operations as well the entire policing duties of the base. During the period there was a remarkable reduction in illegal activities in the maritime area within the base area of operations.

The senior officer also served as Instructor, Chief Instructor (CI) and Commandant (Comdt) Nigerian Navy Hydrographic School (NNHS), Staff Officer Grade 1 Survey and Deputy Director Instruments Nigerian Navy Hydrographic Office (NNHO), Assistant Director Combat Policy NHQ, Deputy Director Hydrography, Director Personnel Release NHQ, as well as Directing Staff/Director Academic Research and Analytical Skills (DS/DARAS) NDC and Director Audit, Naval Safety and Standards NHQ. He was the Director Lessons Learnt (DLL), NHQ. During his cumulative 6-year tour of duty in NNHS, he taught geodesy, datum conversion, tidal predictions and analysis, satellite surveying, bathymetry, among others. As Comdt, he linked the School with Teledyn Marines, a reputable OEM in the US, which enabled the NN to procure several survey equipment from the company, leading to improvements in practical training. He was also instrumental to the review of the School's curriculum to align with International Hydrographic Organisation (IHO) requirements. During his tour of duty in the NNHO, the senior officer was instrumental to the localisation of tidal prediction and analysis. He participated in the Food and Agricultural Organisation sponsored Guinea Current Large Marine Ecosystem survey in 2004 and provided professional inputs during the survey and production of the NNHO charts. During his tour of duty at the NDC, he contributed towards the improvement of the College research package and also led the 2018 participants research study tour to China and South Korea. As DLL he was responsible for collating and analysing previous NN Operations and activities with the objective of drawing lessons necessary for doctrinal and operational improvements.

The Senior officer is decorated with: FSS (Forces Service Star) MSS (Meritorious Service Star) DSS (Distinguished Service Star) GSS (Grand Service Star) He is a member of the Nigerian Hydrographic Society, Nigerian Institute of Management, the International Earth Rotation Services and also a fellow of the Occupational Safety and Health Association of the UK. He is married to Mrs Ijeoma Ogalla and the marriage is blessed with 2 children.

His hobbies include jogging, reading, listening and researching about science and nature.

AVM HB ABUBAKAR APPOINTED 22ND CHIEF OF THE AIR STAFF¹⁹



© Air Vice Marshal (AVM) Hassan Bala Abubakar
Chief of Air Force Staff

On 23 June 2023, Air Vice Marshal (AVM) Hassan Bala Abubakar has been appointed the 22nd Chief of the Air Staff by the President and Commander-in-Chief of the Armed Forces of the Federal Republic Nigeria, Bola Ahmed Tinubu. Born on 11 September 1970, AVM Hassan Abubakar hails from Shanono Local Government Area of Kano State. He enlisted into the Nigerian Air Force (NAF) as a member of Nigerian Defence Academy Regular Course 39 and was commissioned Pilot Officer on 19 September 1992.

AVM Abubakar has attended several courses, among which are Ab-initio and Basic Flying Training Courses at the then 301 Flying Training School, Kaduna; Basic and Advance Airborne Courses at the Nigerian Army Infantry Centre and School, Jaji; and Company Amphibious Operations Course at the Nigerian Army Infantry Centre and School, Calabar. Others include Junior and Senior Command and Staff Courses at the Armed Forces Command and Staff College Jaji, and National Defence Course at the Nasser Higher Military Academy, Cairo, Egypt.

Previous appointments held by the CAS include Officer Commanding B Squadron (Do 228), 81 Air Maritime Group NAF Benin; Team Leader MILOB Team Site 615 Mahagi (Ituri Brigade) United Nations Organisation Mission in the Democratic Republic of Congo (MONUC); and Aviation Planning Officer, MONUC Air Operations Kinshasa,

Democratic Republic of Congo. He was Commanding Officer Base Services Wing 81 Air Maritime Group Benin, and later served at different times at the 88 Military Airlift Group, Ikeja, where he held various appointments, including Operations Officer Operational Conversion Unit, Operations Officer, Commanding Officer 21 Wing, and Group Safety Officer. Furthermore, he was Fleet Operation Officer 011 Presidential Air Fleet, and thereafter served as the Commanded of the Unit. His other appointments include Chief of Staff, Mobility Command, Yenagoa; Air Officer Commanding Logistics Command, Ikeja, as well as Director of Policy, and Director of Operations, both at the Headquarters Nigerian Air Force, Abuja.

Until his appointment as the 22nd CAS, he was the Chief of Standards and Evaluations, Headquarters Nigerian Air Force, Abuja.

AVM Abubakar has earned several awards and decoration, some of which include Distinguished Service Star (DSS), Passed Staff Course (psc), and Fellow Defence College (fdc). He is a member of the National Institute of Management, Chartered Institute of Public Management, and Nigerian Institute of Safety Professional. The Chief holds a Bachelor of Science Degree in Biological Science from NDA, and master's degree in international Affairs and Diplomacy from Ahmadu Bello University, Zaria.

PERMANENT SECRETARY MINISTRY OF DEFENCE CALLS FOR MILITARY, CIVILIAN COLLABORATION TO END TERRORISM IN NIGERIA

On 27 June 2023, the Permanent Secretary, Ministry of Defence, Dr. Ibrahim Abubakar Kana, mni has stressed the need for collaboration between the military and civilian in the fight against terrorism and other criminal activities in the country. Dr. Kana disclosed this on Monday when he received Chief of Defence Staff, Major General Christopher Musa, who led the new service chiefs on a familiarization visit to the Ministry of Defence at ship house, Abuja.

The Permanent Secretary told the visiting CDS and service chiefs that the Ministry of Defence is committed to supporting the government by contributing to the growth of the economy and in ensuring peace all over the nation.

Dr. Kana disclosed this on Monday when he received Chief of Defence Staff, Major General Christopher Musa, who led the new service chiefs on a familiarization visit to the Ministry of Defence at ship house, Abuja.

The Permanent Secretary told the visiting CDS and service chiefs that the Ministry of Defence is committed to supporting the government by contributing to the growth of the economy and in ensuring peace all over the nation.

He explained that to effectively achieve the President's mandate of restoration of peace in the country, the Military and civilians must work closely. He added that interagency cooperation among the Services and the civilian component of the Ministry



will fast track the mandate of Mr. President in assuring Nigerians that there will be peace across the country. Dr. Kana reiterated the ongoing reforms of the Ministry and the Armed Forces, which were initiated during the administration of President Muhammadu Buhari. He emphasized the commitment of the Ministry of Defence to collaborate with the military hierarchy in driving these reforms forward. He said: "We will continue to carry the military hierarchy along in the implementation of some reforms earmarked by the President. I will say that the service chiefs have started on a very good note, because the President had made his mandate very clear and what he wants to achieve."

According to Dr. Kana, the reform initiatives encompass various aspects including the establishment of the Octagon; a platform that fosters civilian-military collaboration to enhance national security. He likened it to the Pentagon in the United States, highlighting the goal of joint efforts in providing security force in Nigeria.

Additionally, he said that the Ministry is dedicated to the development of Nigeria's Military Industrial Complex (MIC) through Defence Industries Corporation of Nigeria (DICON). The initiative that will promote local development, create employment, and guarantee self-sufficiency in arms, ammunition, and the military hardware production supporting both the economy and national security.

Royal Moroccan Armed Forces

The Royal Moroccan Armed Forces are the summation of the armed forces of the kingdom of Morocco. It was founded in 1956, except the Royal Navy founded in 1960, after Morocco's independence from France and Spain.

It is today taking part in several peace-keeping missions: MONUC, ONUC, EUFOR, KFOR and MINUSTAH. Previous peace-keeping missions included the Somalia operation, in which Moroccan personnel served as part of UNOSOM I, the Unified Task Force, and the follow-on UNOSOM II mission.

Morocco is seeking to modernize its armed forces and further develop its domestic military industry considering regional and international turbulence. King Mohammed VI said last year in a speech marking the 63rd anniversary of the armed forces that "The Royal Armed Forces will focus on scientific, technical and engineering research programs and work to strengthen and develop them in all military and security fields, at the African and international levels, in order to exchange

experiences and keep up with the rapid development in the fields of security and defence." Morocco's steps to develop its domestic military industry has drawn the attention of experts and foreign observers

Morocco's practices a policy of diversifying its sources of defence material supply and carries out a large part of its transactions through government-to-government agreements with US, France, China and Russia, to a lesser extent with South Africa, Austria and the United Kingdom, Israel, Turkey and marginally with the Spanish defence industry.

But its main supplier is the United States, whose companies supply Rabat with significant quantities of top-quality armaments.

On 2 October 2020, the United States and Morocco on Friday signed an accord that aims to strengthen military cooperation and the North African kingdom's military readiness over the next decade. U.S. Defense Secretary Mark Esper signed the 10-year agreement during a two-day visit to Morocco, his last stop on a tour of three North African nations, which began this week in Tunisia, where a military accord also was signed.



- **Recent defense procurement plans**

One of the most recent and largest purchase packages made by Morocco involves the expansion and renewal of the Royal Air Force's fleet of fighter planes. Rabat was given the go-ahead in March 2019 for the acquisition of 25 new F-16 C/D Block 72 fighters - the most advanced production version - which includes extensive new capacities and structural improvements.

The second recent major contract is the acquisition of 24 AH-64 Apache attack helicopters, an aircraft that has been extensively tested in the wars of Iraq, Afghanistan, Libya and Yemen and it is considered the best in the world in its class. Configured in version E - the most modern version authorized by the Pentagon for export -, they are fully equipped with radar gunfire control systems, communications, navigation and target control systems, sensors and state-of-the-art night vision equipment.

In 14 April 2020, the State Department has made a determination approving a possible Foreign Military Sale to the Government of Morocco of ten (10) AGM-84L Harpoon Block II Air Launched missiles and related equipment for an estimated cost of \$62 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale today. The Government of Morocco has requested to buy ten (10) AGM-84L Harpoon Block II Air Launched missiles. Also included are containers, spare and repair parts, support and test equipment, publications and technical documentation, personnel training and training equipment, U.S. Government and contractor representatives' technical assistance, engineering and logistics support services, and other related elements of logistics support. The total estimated cost is \$62 million.

On 3 March 2020, the State Department has made a determination approving a possible Foreign Military Sale to Morocco of twenty-five (25) M88A2 Heavy Equipment Recovery Combat Utility Lift and Evacuation System (HERCULES) vehicles and/or M88A1 long supply HERCULES refurbished vehicles and related equipment for an estimated cost of \$239.35 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale today. The Government of Morocco has requested to buy twenty-five (25) M88A2 Heavy Equipment Recovery Combat Utility Lift and Evacuation System (HERCULES) vehicles and/or M88A1 long supply HERCULES refurbished vehicles; and twenty-five (25) M2 .50 caliber machine guns. Also included are twenty five (25) export Single Channel Ground and Airborne Radio System (SINCGARS); twenty five (25) AN/PSN-13A Defense Advanced Global Positioning System (GPS) Receiver (DAGR) with Selective-Availability/Anti-Spoofing Module (SAASM); thirty (30) AN/VAS-5B Driver Vision Enhancer (DVE) kits; twenty five (25) M239 or M250 smoke grenade launchers; one thousand eight hundred (1,800) M76 (G826) or L8A1/L8A3 (G815) smoke grenade rounds; spare parts; support equipment; depot level support; Government-Furnished Equipment (GFE).

In January 2021, the Spanish Minister of Finance, María Jesús Montero, has announced at the San Fernando shipyards (Cádiz) that Navantia has reached a contract with the Royal Moroccan Navy to design and build a high-altitude patrol boat that will involve one million hours of work for the shipyards in the Bay of Cádiz and about 250 jobs over the next three and a half years.

U.S. and Moroccan special operations forces completed a Joint Combined Exchange Training event July 19, 2021, in Tangier, Morocco





In addition, she recalled that the Underwater Intervention Maritime Action Vessel (BAM-IS) for the Spanish Navy will also be built in these same shipyards. Montero has visited the San Fernando shipyard accompanied by the president of Navantia, Belén Gualda.

Thus, she has indicated that the project has had the institutional support of the Government and its success opens the door to the hiring of other similar units, which would imply more hours of work and more employment for the naval industry. Morocco communicated in April the specifications of the contract for the construction of the patrol boat, in which shipyards from several countries were interested. For its part, Navantia presented its offer in August and a team from the company traveled to Morocco to negotiate the technical and commercial aspects. As Navantia has pointed out, since last September, the contacts between Navantia and the Moroccan National Defense Administration have been permanent to adapt all the technical specifications of the ship to the requirements of its Navy and comply with the roadmap agreed in the negotiation.

The contract announced by the Minister of Finance includes the design of the ship. Thus, once the engineering work is completed, its construction will begin. Navantia already supplied patrol boats and a corvette to the Royal Moroccan Navy in the eighties and this contract takes up that path. The high-altitude patrol boat is part of Navantia's Strategic Plan. She is a highly demanded ship in the international arena, with consequent export opportunities to other countries.

Thales Group has been a long-standing partner of the Royal Armed Forces in Morocco for nearly 30 years. Systems and equipment are widely used in the Royal Air Force, the Army, the Royal Gendarmerie and the Royal Navy. The main areas addressed are highly secure communications, optronics (night vision), radars, combat systems and security.

In January 2020, the French company Nexter has signed a contract of €230 million for the sale of CAESAR 155mm self-propelled howitzers as well as ammunition to Morocco. In September 2022, the Royal Moroccan Army has taken delivery of its first batch of 36 Caesar artillery weapons as a part of the country's ongoing military modernization.

In April 2021, Morocco's Royal Armed Forces (FAR) has signed a contract to buy 13 Bayraktar TB2 combat drones from Turkey, the service confirmed on social media. The deal worth 626 million Moroccan dirhams (\$70 million) includes four remote control ground stations, a configurable simulation system for flying the drones, and a digital system for tracking and storing information, Morocco World News reported.

In August 2022, the State Department has made a determination approving a possible Foreign Military Sale to the Government of Morocco of Ground Command and Control and related equipment for an estimated cost of \$141.1 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale. The Government of Morocco has requested to buy six (6) Multifunctional Information Distribution System Joint Tactical Radio Systems (MIDS-JTRS). Also included are: KY-100M Narrowband/Wideband Terminals; KIV-78 and KIV-77 Cryptographic Appliques; AN/PYQ-10 Simple Key Loader (SKL); additional secure communications, cryptographic devices, and precision navigation equipment; unclassified and classified software, software support and support equipment; spare and repair parts; support and test equipment; publications and technical documentation; 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 cost is \$141.1 million.

In November 2022, Israel's Elbit Systems announced a \$70 million contract to supply Morocco's Royal Armed Forces with an Alinet Electronic Warfare Solutions system. The contract will be executed over a period of two and a half years, military news website Military Africa reported.

The deal will allow the Moroccan army to obtain ground-based Electronic Warfare and Signal Intelligence units equipped with several features including electronic Support Measures, Electronic Counter Measures, and Command and Control Systems.

"These units will generate a comprehensive passive air and ground picture and provide an electronic order of battle, which enables an effective response to both air and ground threats," Military Africa quoted a statement from Elbit as saying. On 11 April 2023, the State Department has made a determination approving a possible Foreign Military Sale to the Government of Morocco of High Mobility Artillery Rocket Systems (HIMARS) and related equipment for an estimated cost of \$524.2 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale. The Government of Morocco has requested to buy eighteen (18) M142

High Mobility Artillery Rocket System (HIMARS) launchers; forty (40) M57 Army Tactical Missile Systems (ATACMS); thirty-six (36) M31A2 Guided Multiple Launch Rocket Systems (GMLRS) Unitary; thirty-six (36) M30A2 Guided Multiple Launch Rocket Systems (GMLRS) Alternative Warhead; nine (9) M1152A1 High Mobility Multipurpose Wheeled Vehicles (HMMWV); and eighteen (18) International Field Artillery Tactical Data Systems (IFATDS). Also included are forty (40) M28A2 Low Cost Reduced Range Practice Rocket Pods (LCRRPR); radios with similar "SINCGARS" capability; thirty-five (35) Vehicular Dual Long-Range Radio Systems w/GPS; twenty-four (24) Single Radio, Long Range Vehicular System w/GPS; eighteen (18) M1084A2 cargo truck, Family of Medium Tactical Vehicles (FMTV) Resupply Vehicles (RSV); three (3) M1089A2 wrecker truck, FMTV, RSV; eighteen (18) M1095 5-ton trailer, FMTV; twenty-three (23) Simple Key Loader (SKL), AN/PYQ-10; fifty (50) Defense Advanced Global Positioning System Receivers (DAGR); camouflage screen and support systems; support equipment; communications equipment; spare and repair parts; test sets; laptop computers; training and training equipment; publications; systems integration support; technical data; Stockpile Reliability, Quality Assurance and Technical Assistance teams; U.S. Government and contractor technical, engineering, and logistics support services; and other related elements of logistical and program support. The estimated total cost is \$524.2 million.



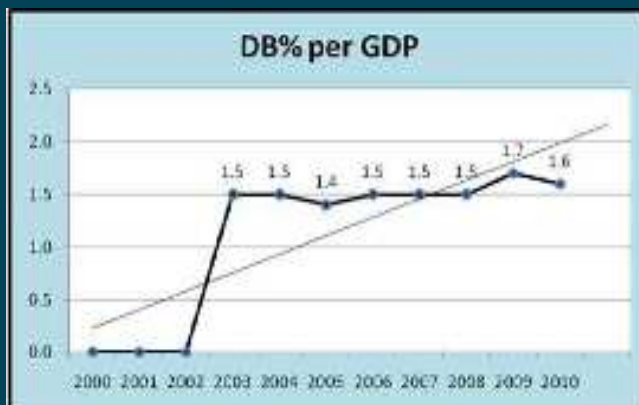
U.S. Marine Corps Gen. Michael Langley, commander, U.S. Africa Command, and General Belkhir El Farouk, inspector general of the Moroccan Armed Forces and commander of the Southern Zone, salute Moroccan service members during an Honor Guard pass and review in Rabat, Morocco, on Oct. 17, 2022. The visit to Morocco, followed by a stop in Tunisia, was Langley's third to Africa since taking command.

Ivory Coast Security and Defence Forces

Ivory Coast became independent on 7 August 1960. Ivory Coast had no military until more than a year after independence, one was finally organized and strengthened with French assistance. Ivorian members of the French Troupes de Marine who had been born in Ivory Coast were transferred to Abidjan in October 1961 to start establishing the armed

forces. As of September 2011, the government is attempting to form what is called the Forces Armées Nationales de Côte d'Ivoire (FANCI). French forces and the Opération des Nations Unies en Côte d'Ivoire are a significant military factor in the country as of late 2011.

Total force strength	Approximately 15 000 Army, Air Force and Navy personnel under Laurent Gbagbo.
Army	
Armour	10: T-55 (likely unserviceable) 5: AMX-13
Reconnaissance	8: AML-60 6: AML-90 13: BRDM-2 6: ERC-90F4 Sagaie
AIFV	10: BMP-1/2
APC	10: VAB 12: M-3 Panhard 10: Mamba 6: BTR 80
Towed artillery	4: M-1950 105 mm
Multiple Rocket Launcher	6: BM-21 122 mm
Mortar	10: M-37 81 mm 16: AM-50 120 mm
Anti-armour	? : AT-14 Kornet (Reported) STRIM-89
Recoilless rifle	12: M-40A1
Rocket launcher	? : RPG-7 Knout 73 mm ? : LRAC 89 mm
Air defence gun	10: ZU-32-2 23 mm 5: L-60 40 mm
Air defence missile	? : SA-7 Grail
Structure	1 armoured battalion 3 infantry battalions 1 artillery battalion 1 air defence company 1 engineers company
Air Force	
Training	7: Alpha Jet
Combat helicopter	1: Mi-24 Hind
Transport helicopter	3: SA-330L Puma 2: SA 316/319 Alouette III 3: SA 365
Transport	1: An-12
VIP	1: Gulfstream III
Navy	
Patrol/Strike boat (Gun/Missile/OPV/IPV)	2: L'Ardent class missile fast attack craft (French Patra type) 2: Vigilant type patrol craft 1: Batral type landing ship 1: Intrepide class 2: Rodman class (Fishery protection only)



Special forces units include:

- Group des Forces Speciales (GFS)
- Fusiliers Commandos d Air (FUSCOA)
- Detachement d' Intervention Rapide
- Fusiliers Marins Commandos (FUMACO/ naval commandos)

President and Defence Minister: Alassane Ouattara

Chief of General Staff of the Armed Forces: Div Gen Soumaila Bakayoko

President Ouattara, in his diverse speeches intended for the armies, always emphasized the professionalism and the necessity to build an "emerging army". He constantly warned the Republican Forces of Ivory Coast (FRCI since 2011, former FANCI), as for their behaviour which have to be the reflection of discipline, public-spiritedness and republican values. He also reminded to the servicemen, their place in society as guarantor of freedom and territorial integrity. Furthermore, he reminded them that their duty is to serve the nation. Besides, from all the troubles which undermine the armies, corruption, abuses and political instrumentalization remain the most fought but still active concerns.

In Ivory Coast, the professionalization of the armies has a implementation framework which is since 2011, the Security Sector Reform (SSR). Indeed, this vast qualitative transformation of all the actors of the security sector, towards a better governance, integrates specific reforms for the armies, aiming at professionalization. The illustration of this current professionalization is the capacity building of the officers and the non-commissioned officers since a few years as well as the creation of specialized units (CCDO, Special forces, etc.) to tackle specific threats.

From summer 2011, Operation Licorne, the French force, previously over 5,000 strong, is roughly 700, and consists of Licorne headquarters, Battalion Licorne (BATLIC), seemingly made up of elements of the 2nd Marine Infantry Regiment and the Régiment d'infanterie-chars de marine, and a helicopter detachment.

The United Nations has maintained the peacekeeping mission ONUCI in the country since 2004. On 28 February 2011 ONUCI consisted of 7,568 troops, 177 military observers, and numerous international civilians and Police; the mission had received helicopter and infantry reinforcement from

UNMIL during the stand-off since the late 2010 elections which had been won by Alassane Ouattara.

The United States established diplomatic relations with Cote d'Ivoire (then called Ivory Coast) in 1960 following its independence from France. A coup in 1999 ushered in several years of coup attempts, disputed elections, rebellions, and attempts at reunification. In 2011, a new president was formally inaugurated after a period of fighting brought on by the incumbent's refusal to cede power following 2010 elections.

U.S.-Ivoirian relations have traditionally been friendly and close. The United States participates in the international effort to assist Cote d'Ivoire in moving beyond its decade-long crisis, providing more than a quarter of the funding for the UN Operation in Cote d'Ivoire. The U.S. Government's overriding interests in Cote d'Ivoire have long been to help restore peace, encourage disarmament and reunification of the country, and support a democratic government whose legitimacy can be accepted by all the citizens of Cote d'Ivoire.

In 1987, the Library of Congress Country Studies described the National Gendarmerie in the following terms:

"The third pillar of internal security, the National Gendarmerie, consisted of a headquarters staff, four legions (corresponding to the four military regions) and a professional training academy, the Gendarmerie School (Ecole de Gendarmerie). This national constabulary force was formed in October 1960, replacing the Guard of the Republic that had been established in 1958. The National Gendarmerie was responsible for defending rural areas and maintaining domestic order, thereby complementing the conventional tactical capabilities of the regional military commands. Its effective strength of 1,500 in the late 1960s doubled to 3,000 in the early 1970s, and in today it is estimated at 4,500. The headquarters included an intelligence bureau; administrative and training center; bureaus of logistics, personnel, and budget planning; and a security and foreign liaison division."

"The four National Gendarmerie legions each had a general staff, detached companies that were deployed in and around the major towns and population centers in their respective prefectures, and a small number of mobile squads for rapid reaction and general support."



Recent defense procurement plans

* In January 2019, the Ministry of Defence of Ivory Coast has signed a firm order for one C295 medium transport aircraft. The aircraft, in transport configuration, will enhance the capabilities of the Ivory Coast Air Force with its proven record of excellent performance in hot and harsh conditions, and affordable maintenance and operational costs. Bernhard Brenner, Airbus Defence and Space Head of Marketing & Sales, said: "The C295 has proven its outstanding capabilities in the exceptionally harsh sub-Saharan Africa operating environment. The aircraft will be a game changer for Ivory Coast and we feel very proud to welcome a new operator into our C295 family." With this new order Ivory Coast becomes the 28th nation worldwide to operate the C295. Airbus Defence and Space has to date sold 91 aircraft to 17 countries in Africa. There is a growing fleet of C295s in the North and West Africa region with up to 35 C295s contracted by Egypt, Algeria, Ghana and Mali.

* According the airecognition.com the Ivory Coast has taken delivery of a second Mi-24 to replace those that previously crashed. On 27 November 2019, a Mi-24D (TU-VHR) was lost in a collision; on 18 March 2020, another Mi-24D (TU-VHO) came down at Felix Houphouët Boigny airport in Abidjan. The first replacement aircraft was delivered on 7 August 2020 to coincide with the Ivory Coast's 60th Independence Day.

* In December 2022, the Ivorian armed forces have placed an order for four DT-26 long range surveillance drones with French UAV manufacturer Delair. The new DT-26 drones will help the military effectively monitor its northernmost border which have seen jihadists attacks in recent years. The Delair drone acquisition is coming after recent attacks just across the border in Mali blamed on Islamist insurgents.

Key Applications:

- Intelligence, surveillance & reconnaissance (ISR)
- Discreetsurveillance
- Missions in sensitive areas
- Day & night routinemonitoring
- Surveillance of industrial sites
- Emergency response
- Wildfire management
- Natural disaster management

* Israel Shipyards Israel has recently delivered the first of the OPV S-45 to Côte d'Ivoire with the second vessel expected to be delivered later this year.



© OPV S-45

The vessels were designed for a wide range of missions, including protection against the increasing threat of piracy in the region. OPV 45m is equipped with highly advanced weapons systems, produced by world-recognized Israeli designers. Becoming one of the best-known ISL vessels, the SAAR 4.5-based OPV was chosen to secure the extensive waterways around Greece during the 2004 World Olympics. One of its many advantages is a weapon-carrying capacity equal to larger, more costly vessels. The seagoing power of the Israel Shipyards OPV was further enhanced with optional helicopter carrying capability. This innovation has proven itself in the deployment of rapid-response units to security incidents occurring at sea, in all weather conditions.

Specifications:

- LOA (Length Over All): 45.70m
- Beam Max.: 8.60m
- Displacement: About 300tons
- Max Speed: About 24knots
- Range @ 12knots: Over 3500NM

The development of the multi-mission OPV 45m was a result of comprehensive market research conducted over the past several years. Available in various configurations, the OPV 45 can handle wide range of missions. Easy to operate and with low-cost maintenance, it is the most cost-effective OPV available in the international market today.

* Ivory Coast Land and Security Forces have during the last years received DCD Springbuck SD vehicles from South Africa, International Armoured Group (IAG) Jaws armoured personnel carriers (APCs) from the United Arab Emirates, WZ-551 6x6 infantry fighting vehicles from China, and Nurok Makina Ilgaz-II armoured vehicles and Otokar Cobra II light armoured vehicles from Turkey. The Armoured Group (TAG) has also supplied BATT UMG and Terrier LT-79 armoured vehicles to Cote d'Ivoire.

US, IVORIAN ARMED FORCES HOST AFRICAN LAND FORCES SUMMIT IN ABIDJAN

Senior military leaders from African nations, as well as the U.S. and some European nations, meet to build relationships, exchange information on current topics of mutual interest and encourage cooperation in addressing challenges, May 8-12 in Abidjan, Côte d'Ivoire during the African Land Forces Summit. The theme for this year's summit is "Addressing security challenges through civil-military partnerships."

U.S. Army Southern European Task Force, Africa (SETAF-AF) along with the Côte d'Ivoire Armed Forces held the opening ceremony for the African Land Forces Summit 2023 in Abidjan, Côte d'Ivoire at the Sofitel Hotel in Abidjan today.

On behalf of the U.S. Army Chief of Staff, the summit brings together over 40 land force chiefs from across Africa, other partner nations, academic thought leaders, and government officials for candid dialogue to discuss and develop cooperative solutions to shared challenges. "Every country

represented by the chiefs here today on the continent are different, have their own objectives, their own priorities, their own identity," said Gen. Darryl Williams, commander of U.S. Army Europe and Africa, during his opening comments. "But I know that, together, we can learn from each other's experiences, and identify ways to succeed."

Participants will also observe a demonstration by the Ivorian Armed Forces at the International Academy for the Fight Against Terrorism (AILCT) on May 9. The AILCT provides world-class training to forces from across the region on combatting violent extremism in a manner that respects human rights and builds the trust and confidence of populations threatened by terrorism. In addition to plenary sessions and small-group discussions, various cultural events are planned for the visiting participants, including showcasing local Ivorian culture and hospitality. This year's ALFS also features parallel sessions focused on fostering discussion and development amongst senior enlisted leaders from the U.S. and African nations.

SETAF-AF provides U.S. Africa Command and U.S. Army Europe & Africa a dedicated headquarters to synchronize Army activities in Africa and scalable crisis-response options in Africa and Europe.

By NEIL RUGGIERO, U.S. Army Southern European Task Force, Africa



May 8-12
2023



Abidjan
Côte d'Ivoire

Armed Forces of Liberia



Maj Gen. Daniel D. Ziankahn, Jr., (Rtd) is currently the Minister of Defense.

The mission of the Ministry of National Defense is to ensure the protection of Liberia's national interest and territorial integrity, and to protect the citizens and residents within the borders of Liberia from internal and external aggression and in extremist, to respond to natural disaster.

The Minister of National Defense is the principal administrator of the Ministry. He is assisted by two deputy ministers, administration and operations, respectively. The Chief of Staff is the one who is responsible for all units of the Armed Forces of Liberia. There are three assistant ministers within the Ministry of National Defense. They are Assistant Ministers for Public Affairs, Coast Guard Affairs and Civil Works.

Tracing its origins to a militia that was formed by the first black colonists in what is now Liberia, it was founded as the Liberian Frontier Force in 1908, and retitled in 1956. For almost all of its history, the AFL has received considerable materiel and training assistance from the United States. For most of the 1941–89 period, training was largely provided by U.S. advisers, though this assistance has not prevented the same generally low levels of effectiveness common to most of the armed forces in the developing world.

For most of the Cold War, the AFL saw little action, apart from a reinforced company group which was sent to ONUC in the Democratic Republic of the Congo in the 1960s. This changed with the advent of the First Liberian Civil War in 1989. The AFL became entangled in the conflict, which lasted

from 1989 to 1996–97, and then the Second Liberian Civil War, which lasted from 1999 to 2003.

As of 2014, the AFL consists of two infantry battalions, a Service Support Company, a Military Police Company, a Logistics Command, and the Liberian National Coast Guard.

The Liberian ground forces currently consist of two infantry battalions and supporting units. The 1st Battalion, 23rd Infantry Brigade, was formed on August 29, 2008, at the Barclay Training Center in Monrovia, and the 2nd Battalion, 23rd Infantry Brigade in December that year. Both battalions are currently based at the former Camp Schiefflin, which has now been renamed the Edward Binyah Kesselly Barracks, often known simply as 'EBK Barracks.'

As a result of the concentration of troops at EBK, the camp is overcrowded, and disturbances among the soldiers have occurred. As of mid-2009, the Ministry of Defense is attempting to alleviate the problem by relocating some personnel to Camp Tubman in Gbarnga.

The two battalions and supporting units went through training and preparation for an assessment exercise, a modified US Army Readiness Training Evaluation Program (ARTEP), which was held in late 2009. When declared operational, the 23rd Infantry Brigade was planned to be commanded by a colonel with a headquarters of 113 personnel. Supporting units were to include a band platoon (40 members), engineer company (220 strong), Brigade Training Unit (162 strong, now retitled the Armed Forces Training Command, located at Camp Ware under Major Wleh), and a military police company (105 strong). The force operates according to slightly modified United States Army practices and uses U.S. doctrine.



Peace keeping unit returns home



Maj/ Gen. Prince C. Johnson, III.
Chief of Staff
Armed Forces of Liberia

The Coast Guard was reactivated on the 53rd Armed Forces Day on February 11, 2010, with an initial strength of 40 personnel who had been trained in the United States. A United States Coast Guard officer is now serving at the U.S. Embassy in Monrovia supporting efforts to reestablish the Liberian Coast Guard.

A detachment from SeaBee Naval Mobile Construction Battalion 7, based at Naval Station Rota, Spain, constructed a United States Africa Command-funded boat ramp and concrete perimeter wall for the Coast Guard, which was handed over in December 2010.] In February 2011, the United States turned over two donated USCG Defender class boats to the Coast Guard.

The Liberian Air Force was formally dissolved in 2005 as part of the armed forces demobilization program, though it had effectively ceased to exist during the civil war. For many years only the United Nations Mission in Liberia (UNMIL) operated military aircraft in Liberia - Mi-8 transport and Mi-24 attack helicopters from Roberts International Airport with several subsidiary locations. Ahead of its anticipated closure of UNMIL operations in March 2018, these aircraft are leaving the country. There was also a Paramilitary Justice Air Wing operating some Mil Mi-2s. This was the Liberian Air Force inventory for its entire existence.

A U.S. Marine Corps officer speaks to AFL troops during a training exercise



Africa Becomes Regional Market for the Turkish Defence Industry

Since the mid-2010s, Turkish defence companies have set their eyes on the African market. Before, defence exports were in general limited to small arms and ammunition. Even though Turkish companies have in the last decade managed to export their goods such as armoured vehicles to African markets, it is only in recent years that they have managed to gain a more stable market share with relatively larger projects.

According to DW Turkey is stepping up its security footprint in Africa after over a decade of strategically expanding its economic and cultural influence on the continent. Turkey has recently inked a number of security agreements, particularly in West Africa, and arms exports to Africa have exploded.

Turkey's defense and aerospace exports to the continent grew more than fivefold, to \$460.6 million, in 2021 — up from \$82.9 million in 2020.

Turkey's share of Africa's arms market is still tiny at 0.5%. But the rapid growth of defense sales is "striking," according to a 2022 study on Turkey's security diplomacy in Africa by the German Institute for International and Security Affairs (SWP).

Against a backdrop of growing Islamist insurgencies in both East and West Africa, as well as domestic conflicts, governments are upping their defense spending. Turkey is proving a reliable alternative to

traditional arms exporters, such as Russia, China, France and the United States.

The 2021 Turkey-Africa summit attracted 16 African heads of state and more than 100 ministers. This shows that the continent is increasingly attaching strategic importance to Turkey.

The TB2 Bayraktar model is in high demand after it was credited with swinging the fate of conflicts in Libya and Azerbaijan's breakaway region of Nagorno-Karabakh in the past few years. "Everywhere I go in Africa, everyone asks about UAVs," Erdogan boasted after a visit to Angola, Nigeria and Togo in October 2021.

Some 25 Turkish companies joined the African Aviation and Defense Fair (AAD) - 2022, which was held in Pretoria, the capital of South Africa. At the defense and aviation expo, which hosted the largest and the state-of-the-art technologies in Africa, Turkish firms participated under the coordination of the SSB with the support of the Defense and Aviation Industry Exporters' Association (SSI).

Turkish companies, such as Aksa Motor Vehicles, ASELSAN, Ayesas, BMC, Derya Arms, Elektroland Defense, Warranty, GM Defense, HAVELSAN, Kale Kalip, Katmerciler, Lentatek, MKE, Nero Industry, Otokar, Oztek Tekstil, SAHA Istanbul, Samsun Yurt Defense, Sarsilmaz, Sasa, STM, TISAS, Transvaro, Turmaks, and TUSAS participated in the fair.

According to Anadolu News Agency, the main factor that can strengthen Turkiye's defense investments in Africa is technology transfer and military capacity building. It is difficult to talk about a significant technology transfer other than the installation of already exported systems. This situation is not applicable for Turkey. Each country keeps the information about the weapon technology it

© Photos credit: DBDC LTD



produces as a state secret. Therefore, the area where states are least willing to share information and technology is the defense industry. In addition, the lack of developed industrial infrastructure across Africa poses a serious obstacle to technology transfer. ASELSAN South Africa (ASA), which was established in South Africa in 2011, is an important step in this sense. ASA, operating in the fields of electro-optical and opto-mechanical system engineering, deals with the promotion and marketing of ASELSAN products in South Africa and surrounding countries, and also cooperates with South African Paramount Advanced Technologies, which operates in the field of defense industry.

According to TurDef Turkish Aerospace offered Nigeria to establish an ANKA UAV factory in Nigeria as well as Nigerian Army bought Bayraktar TB2 UAV from Türkiye. Fly Bvlos Technology, a subsidiary of Coşkunöz Holding operating in Gebze Technical University Dronepark, exported 30 Delta UAVs to Nigeria. ASISGUARD exported SONGAR armed drone to Nigerian Police.

Concerning Nigerian Turkish relations, Nigeria has also ordered T129 ATAK Attack and Tactical Reconnaissance Helicopter. ASELSAN's reconnaissance and targeting pod Aselpods are sold to Nigerian Air Force (NAF) through the JF-17A Thunder Block II fighter jet acquired from Pakistan.

Turkish Aerospace Industries has confirmed the delivery of two Hurkus-C light trainer and combat aircraft to Niger and three to Chad.

With the contributions that was made by HAVELSAN to Africa Air Force Forum in Senegal, in the AAD 2022, in the Shield Africa 2021. HAVELSAN took a new step to its goal to code the trusted future together with its African allies.

HAVELSAN understands 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, HAVELSAN is 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.

Otokar as a registered NATO and United Nations supplier is delivering the best vehicles with modern equipment in line with the specific needs of users in Africa, and it have been able to gain significant experience about responding to the needs and expectations of this region through the military vehicles currently serving there. Otokar has also started to stand out in global scale not just for its products with fully owned intellectual property rights, but also with its know-how, engineering, R&D and technology transfer capabilities.

Nurol Makina signed the first export contract for Yoruk 4X4 before the serial production preparations were completed. The company in a short time signed contracts with a total of four countries, with

Aselsan and South Africa's state-owned Denel will collaborate on building the 'MEROPS' next-generation air surveillance and targeting gimbal sight.

Chad becoming the first African country to export the vehicle. Nurol Makina has also delivered its Edjer 6x6 armoured fighting vehicle to the Burkina Faso Army.

Niger has ordered armoured personnel carriers (APCs) from Turkey's Nurol Makina, in addition to Bayraktar TB2 unmanned aerial vehicles and Hurkus turboprop trainer/light attack aircraft.

In September 2021 in an official ceremony took place the Keel laid for the first Nigerian OPVs at Turkish Dearsan Shipyard. The OPVs are being constructed as part of a contract signed between Dearsan and Nigerian Navy in 2021.



Kainji Nigerian Air Force Base improvements

Nigeria – Senior U.S. Department of State and Department of Defense officials joined Nigerian Air Force Air Vice Marshal IG Lubo, representing Nigeria's Chief of the Air Staff Air Marshal Isiaka Oladayo Amao, and other Nigerian partners to celebrate the completion of \$38 million of improvements to the air base April 27.

The construction of the air base improvements is key to facilitating the operation and maintenance of the A-29 Super Tucano wing, and associated munitions, stationed here. The base improvements were delivered as part of a larger, historic \$500 million U.S. foreign military sale to Nigeria, which also included the delivery of 12 A-29 Super Tucano aircraft, precision munitions, and world-class training, including in air-to-ground integration to make airstrikes more accurate and thereby mitigate the risk of civilian harm. U.S. Chargé d'Affaires for Nigeria David Greene, Director of the U.S. Air Force Security Assistance and Cooperation Directorate Brig. Gen. Joel Safranek, U.S. Army Corps of Engineers, North Atlantic Division Commander Col. John Lloyd, and other U.S. officials joined Amao and other Nigerian Air Force partners to celebrate the completion of the final phase of the construction program for A-29 Super Tucano support facilities.

"Since my arrival in Nigeria last year, I have closely tracked the progress of the A-29 program and am grateful, today, to celebrate the fruits of U.S.-Nigerian partnership and commitment," stated Chargé d'Affaires Greene. "Nigeria's A-29 program

is the largest U.S. foreign military sales case to date to a country in Sub-Saharan Africa, an example of Nigeria's leadership in being, as is the Nigerian Air Force's motto, 'willing, able, and ready' to contribute to security and stability at home and around the region." The base improvements were delivered in two main phases, with the first phase completed in summer 2021 to allow for the safe delivery of the first A-29 aircraft, which now play a key role in Nigerian Air Force operations to combat violent extremist organizations, such as ISIS-West Africa and Boko Haram. Crews are now finishing the second and final phase of air base improvement projects, which include improved base security, munitions storage and maintenance, aircraft hangars and aprons, and training facilities to ensure the continued successful operations of the new fighter wing. The U.S. Army Corps of Engineers, Europe District, which is part of the larger U.S. Army Corps of Engineers, North Atlantic Division, oversaw the construction of these projects, which are key to facilitating the operation and maintenance of the 12 A-29 Super Tucanos and their accompanying munitions.

The U.S. Air Force Security Assistance and Cooperation Directorate is managing the overall \$500 million foreign military sale as part of its larger mission of administering security assistance programs around the world.

This is the largest U.S. foreign military sales case in sub-Saharan Africa and demonstrates the strong partnership between the United States and Nigeria. The United States is committed to assisting Nigeria in its efforts to create a more peaceful, prosperous nation.

© Africom



TAI in Paris Air Show 2023

Turkish Aerospace Industries (TAI) displayed a wide range of products, including helicopters, aircraft, and unmanned aerial vehicles, at the Paris Air Show 2023. Being among the top hundred global players in aviation and space industry, Turkish Aerospace is organized under six strategic business centers depending on the projects, including:

- Aviation Structural Group
- Aircraft Group,
- Helicopter Group,
- Unmanned Aerial Vehicle (UAV) Systems Group,
- Space Systems Group,
- National Combat Aircraft (NCA) Group
- Engineering Group

In addition, integrated logistics support is provided for all products designed/manufactured by Turkish Aerospace.

During the show TAI displayed drones, helicopters, and its **jet trainer HURJET**.

The **Anka drone**, a medium-altitude long-endurance (MALE) class unmanned aerial vehicle (UAV) manufactured by TAI, is scheduled to commence its operational duties in several other countries in 2023, Prof. Temel Kotil, TAI President & CEO said to the media.

Kotil highlighted that TAI had a significantly larger exhibition area at this year's fair, attracting heavy foot traffic and enabling fruitful meetings with numerous military and civilian officials, particularly from African nations.

After evaluating the company's products, including the heavy-class attack helicopter **Atak-2**, Kotil stated that they could use more electronic warfare equipment thanks to its 1,200-kilogram (2,645-pound) payload capacity. While the Atak helicopter can engage the target from 8 kilometers, this distance will increase to 20 kilometers in Atak-2.

The **T925 helicopter** is a utility helicopter being developed by Turkish Aerospace Industries (TAI), taking into account the needs of the Turkish Armed Forces and it will Fly after one year.

© Photos Credit: DBDC LTD



T925 helicopter



Jet Trainer HURJET



Anka Drone



Atak-2

NAF EVACUATES 94 NIGERIANS FROM SUDAN



© Nigerian Air Force

The Nigerian Air Force (NAF) has brought back home 94 Nigerians stranded in Sudan. The evacuees, flown in NAF 913 C-130H aircraft, arrived the Nnamdi Azikiwe International Airport Abuja at 2254 UTC (11.54pm local time) last night, 3 May 2023. The evacuees are among the first batch of 276 Nigerians airlifted from Aswan in the wake of the ongoing security challenges in Sudan. The NAF effort is in furtherance of its constitutional role of aid to civil authority, and in line with the commitment by the Federal Government to rescue and successfully return home Nigerians living in Sudan. The airlift operation is most heartwarming as it coincides with the NAF's 59th anniversary celebration holding in Enugu from 4-7 May 2023. On hand to receive the returnees on arrival were the Honourable Minister for Humanitarian Affairs, Disaster Management and Social Development, Hajia Sadiya Umar Farouq; the Ministry's Permanent Secretary, Dr Nasir Sani Gwarzo; Director General National Emergency Management Agency, Ahmed Habib; and Chairman/Chief Executive Officer of Nigerians in Diaspora Commission, Hon Abike Dabiri-Erewa.

BOLSTERING MARITIME SECURITY THROUGH JOINT COOPERATION



A delegation from the Indian Navy led by the Deputy Chief of Naval Staff, Vice Admiral Sanjay Mahindru, paid a courtesy call to Commander Kenya Navy Major General Jimson Mutai at the Kenya Navy Headquarters in Mombasa. The visit provided an opportunity to broaden

the existing cordial relations and cooperation between the two countries. This was in pursuance of the Kenya – India Joint Defence Cooperation Committee (JDCC) engagement, which recommended high-level visits by the two militaries. It also reaffirmed the strong and long-lasting relationship between the two nations as they enhanced bilateral and military cooperation within the maritime domain. In the spirit of bolstering maritime security and strengthening cooperation between the two Navies, the delegation visited the Full Mission Bridge Simulator at the Kenya Naval Training College where they were acquainted with the operation of the facility in promoting maritime domain awareness through training and modernization of equipment towards better interoperability.

CHINESE NAVY ESCORT TASK GROUP CALLS ON CNS



© <https://navyonline.mil.gh>

A delegation from the Chinese Navy Escort Task Group has paid a courtesy call on the Chief of the Naval Staff (CNS), Rear Admiral Issah Adam Yakubu at the Naval Headquarters, Burma Camp on Thursday 29 June 2023. The visit sought to discuss matters of mutual interest between Ghana and Chinese navies, and also strengthen the already existing ties between the two countries.

The leader of the delegation, Senior Captain Zhao Lang was appreciative of the bilateral ties between the two countries stating that Ghana is the only country which has the longest diplomatic relationship with China within the region. Senior Captain Lang was hopeful the visit would further enhance and strengthen the already existing relations between both militaries and assured China's continuous support to Ghana towards enhancing capacity building. He expressed his gratitude to the Ghana Navy for the collaboration and support, including protecting Chinese fishing vessels against piracy in the Gulf of Guinea (GoG). On his part, the CNS, Rear Admiral Issah Adam Yakubu, said the Ghana Navy has benefited enormously from the Chinese People's Liberation Army (PLA) Navy over the past years which has increased Ghana Navy's operational capacity.

GHANA AIR FORCE AB INITIO PILOTS EXCEL IN US FLIGHT TRAINING PROGRAM



© <https://af.mil.gh>

In a significant stride towards augmenting the crew state of the Ghana Air Force, six ab-initio pilots, under the guidance of Wing Commander Charles Dawoe, embarked on a flight training program at United States Aviation Training Solutions (USATS). The Crew, who departed Ghana on 28 April 2023, commenced training immediately with an intensive two-week ground school. Despite weather-related challenges which caused intermittent delays in their flying schedule, the pilots through determination forged on to give out their very best. On 16 June 2023, Pilot Officer Isaac Tuobewere Tanle achieved a significant milestone, embarking on his maiden solo flight (first unassisted and unaccompanied flight taken by a student pilot) after completing 19 hours and 12 minutes of flight training.

This paved the way for the rest of the ab-initio pilots to follow suit. Subsequently, with an average of 19 flight hours each, the remaining trainees soared through the skies independently, showcasing their newly acquired skills.

The performance of the ab-initio pilots at USATS has surpassed expectations, with their exceptional accomplishments earning a rating well above average. In an interview, the crew expressed their profound gratitude to the Chief of the Air Staff (CAS), AVM FAK Bekoe for the support and opportunity given them. They gave the assurance that they would uphold the standards of the Ghana Air Force. Training is still progressive and in due time, they would return home to serve mother Ghana with pride and honour.

BOTSWANA DEFENCE ADVISOR COMMENDS GHANA FOR COLLABORATIVE TRAINING EFFORTS



© <https://af.mil.gh> The Defence Advisor (DA) of Botswana to Ghana, Colonel (Col) Mothusi Mothumi, visited the Air Force Headquarters on Tuesday 27 June 2023. The visit was aimed at highlighting the strong bond of friendship and cooperation between the two countries. Col Mothumi commended the Ghana Armed Forces (GAF) for their invaluable contribution in training their Officers at the renowned Ghana Armed Forces Command and Staff College (GAF CSC). He also noted that the effective collaboration has enhanced the capabilities of Botswana's Armed Forces. He called for more partnership in areas such as Peacekeeping, Special Forces Training and Intelligence Operations. Welcoming the DA to the Headquarters, the Chief Staff Officer, Air Commodore David Anetek Akrong acknowledged the importance of the collective efforts in tackling security challenges within the sub-region. He also expressed the readiness of the GAF to further expand the collaboration between the two countries. As part of his visit, Col Mothumi also stopped by the Air Force Base Accra where he was given a tour of the Base.

US AMBASSADOR PAYS A COURTESY CALL TO THE DEFENCE AND SECURITY MINISTER

On 5 June 2023, the Ambassador of the United States of America to Botswana, His Excellency Howard Van Vranken paid a courtesy visit to the Minister of Defence and Security Honourable Thomas Kagiso Mmusi. Ambassador Van Vranken and Minister Mmusi discussed on the issues regarding to defence and Security.



Twenty years of protecting the Namibia Air space



On the 23rd of June 2023, the Namibia Air Force celebrated twenty (20) years of protecting the Namibia Air space. A colourful parade was mounted by men and women in blue uniforms to celebrate the 20th anniversary and commemorate the fallen pioneers of Air Force at the Air Base in Grootfontein. A March pass parade and display of Air assets were officiated by Air Vice Marshal, Teofelus Shaende, the Air Force Commander who highlighted the importance of fulfilling the Service mandate. In his address, he honoured the veterans and pioneers who laid the foundation since 1994 the year which the Air Wing was established and subsequently gave birth to the Air Force in 2003. The Air Force Commander cautioned the Air Force members that, responsibilities to protect the air space of Namibia lies with all Air Force members. He reiterated that he is confident that Air Force is capable to carry out all tasks assigned and urged all members to continue to work as a team. The Air Force Commander informed the members on parade that his door will be open for constructive suggestions, advice in terms of management, aircraft maintenance flying skills enhancement and Command and Control. He commented the air and ground crews for keeping the aircraft fleets on excellent flying conditions.



US Donates Two Protector-Class Patrol Boats to Ghana Navy



© Ghana Navy

The Ghana Navy has taken delivery of two 27m patrol boats from the United States of America at the Takoradi Harbour on Saturday 17 June 2023. The two boats were donated by the US Government to assist the Ghana Navy effectively patrol its maritime domain.

The ships in question were transported to Takoradi Harbor by representatives of the American Navy aboard the Ocean Giant and handed over to the Ghana Navy. The Ghana Navy named the ships GNS Aflao and GNS Half Assini during the delivery ceremony.

Gabon acquiring Airbus C-295 transport aircraft

Gabon's President, Ali Bongo Ondimba, has given his approval for a loan of CFA31 billion (\$52 million) to be obtained to purchase an Airbus C295 military transport aircraft for the country's Air Force. The decision to secure the loan from Spain's Santander Bank was made during a recent cabinet meeting chaired by the president on June 26. The meeting endorsed a draft legal document from the executive requesting authorization to proceed with the plan.

DRC operating CH-4 UAVs

The Democratic Republic of Congo (DRC) is the latest African nation to put the CH-4 unmanned aerial vehicle (UAV) into service after ordering nine from the China Aerospace Science and Technology Corporation.

CDF VISITS KENYAN PEACEKEEPERS TROOPS IN SOMALIA



© KDF

The Chief of Defence Forces (CDF) General Francis Ogolla visited the Kenya Defence Forces (KDF) troops operating under the African Union Transition Mission in Somalia (ATMIS) to establish their level of preparedness to degrade the Al-shabaab militia.

Gen. Ogolla was received by Brigadier Luka Kutto, the Commander of Sector VI and 2 Mechanized Infantry Battalion (2 MIB) Commanding Officer, where he visited the troops based at the New Airport at various Forward Operating Bases (FOB) among them Kismayo, Abdale Birole, Kuday and Burgavo.

The CDF further visited other FOB's situated along the Kenya-Somali border. The CDF's tour is was intended to engage with the soldier, assess their state of mission readiness and to affirm the soldiers utility and effectiveness in delivery of the KDF mandate in their respective deployments. The CDF received a brief on the security situation in Kismayo and the commendable efforts made by the troops in countering the threats posed by the Al-Shabaab in line with the ATMIS mandate.

While addressing the troops, Gen Ogolla commended them for their bravery and professionalism in promoting peace and mentoring the Somali Security Forces (SSF) towards assuming full security responsibility by the end of ATMIS in December 2024. "Security awareness and alertness is key in the mission area. I urge you to remain alert and mission ready. Perform your duties in, positivity, high spirits, discipline, and courage in countering the enemy's efforts. Let us strive to achieve sustainable peace in Somalia," said Gen Ogolla. During the visit, Gen Ogolla was accompanied by the General Officer Commanding Eastern Command (GOC EastComm), Major General Juma Mwinyikayi, the Chief of Operations, Brigadier Giliard Kimonge, among other officers from the Defence Headquarters.

COMMANDER KENYA AIR FORCE PARTICIPATES IN THE 54TH INTERNATIONAL PARIS AIR SHOW

Commander Kenya Air Force (KAF), Major General John Omenda, joined Air Chiefs and industry leaders from around the world at the 54th edition of the International Paris Air Show held this month. The biennial event serves as a platform for established and emerging aviation industry players to come together, fostering an environment of collaboration, discussion, and the showcasing of current and future innovations.

The opening ceremony was graced by the President of France, H.E. Emmanuel Macron who set the stage for a captivating display of aerial demonstrations featuring various aircraft. Over the course of the four-day event, the Commander KAF dedicated his time to visiting and engaging in discussions with individual exhibitors, exploring static displays, and witnessing awe-inspiring aerial demonstrations. These engagements offered valuable opportunities to gain insights into cutting-edge technologies and advancements while also enabling the identification of both immediate and future requirements for the Kenya Air Force.



Zambia's Minister of Defense visits AFRICOM Headquarters

Zambia's Minister of Defense Ambrose Lufuma met with U.S. Marine Corps Gen. Michael Langley, commander of U.S. Africa Command, at the command's headquarters in Stuttgart, Germany on June 12.

Zambia's delegation accompanying the Honorable Lufuma included National Security Advisor Dr. Lawrence Mwananyanda; Air Force Commander Lt. Gen. Colin Barry; Army Deputy Commander Maj. Gen. Geoffrey Zyele; National Service Deputy Commander Maj. Gen. Reuben Mwewa; and Secretary for Defense / Chief of Defense Intelligence Brig. Gen. Oscar Chapula.

The command welcomed the delegation as Zambia continues to focus on regional peace and security. Zambia is a security leader in the region, participating in both the Southern African Development Community (SADC) Mission in Mozambique and the U.N. mission in Central African Republic known as MINUSCA.

Egypt- Minister Of Defense And Military Production, Meets With The Chairman Of The European Union Military Committee

General Mohamed Zaki, Commander-in-Chief of the Armed Forces, Minister of Defense and Military Production, met General Robert Brieger, Chairman of the European Union Military Committee, and his accompanying delegation, who is currently visiting Egypt on an official visit that lasts for several days, at the headquarters of the Ministry of Defense General Secretariat.

The meeting covered the developments of the regional and international arenas in the current period and the exerted efforts to achieve security and stability in the region, as well as ways to strengthen relations in the fields of security and defense. The Commander-in-Chief of the Armed Forces affirmed his appreciation for the relations of friendship and military cooperation with the European Union Military Committee.



© Africom



During the visit, AFRICOM leaders took the opportunity to commend the delegation for its nation's commitment to U.N. peacekeeping missions and other regional security missions, noting that Zambia is setting the example for others to follow with military professionalism and discipline. Zambia is also a proven role model for the integration of women into almost every branch of Zambia's Armed Forces.

The United States partners with Zambia through several initiatives aimed at strengthening security cooperation. Through the Global Peace Operations Initiative, the United States has invested over \$9 million in assistance for pre-deployment training for Zambian battalions supporting MINUSCA. The U.S. also helped support and modernize the Kenneth Kaunda Peace Training Center.

He also pointed to the consensus of visions on issues and topics of common interest, which contributes to supporting the pillars of security and stability in the region. The Chairman of the European Union Military Committee pointed out the importance of enhancing prospects for cooperation and exchanging experiences in the fields of security and defence. He also praised Egypt's efforts to participate in addressing the issues and problems raised on the regional and international arenas, given that it represents a major and active force in the Middle East. The meeting was attended by Lieutenant General Osama Askar, Chief of Staff of the Armed Forces, and a number of commanders of the Armed Forces.



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



**"TOGETHER WE
REACH THE GOAL"**

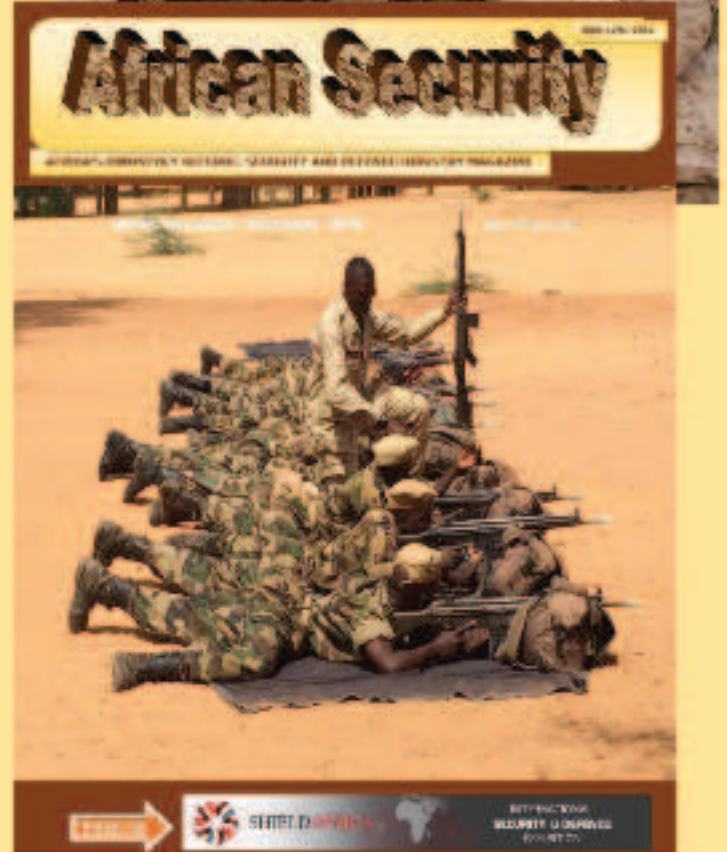
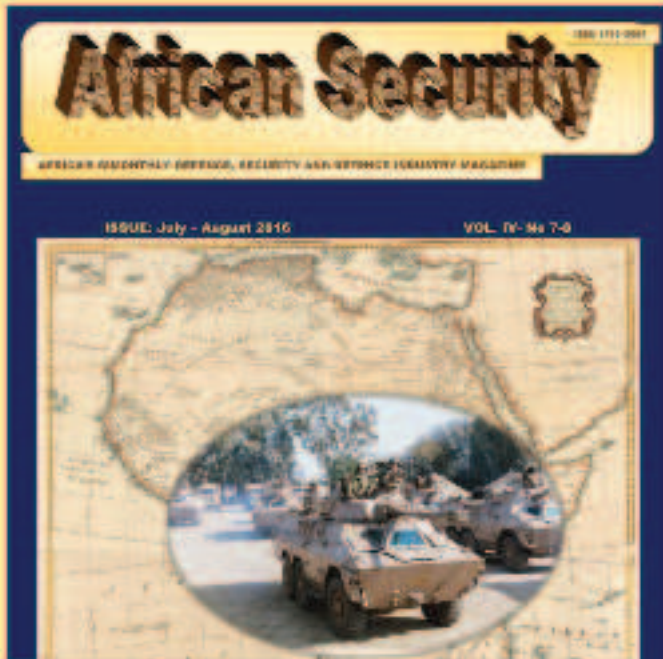


GHANA SERVICES LIMITED

**PLOT No 121, KANAWU, TEMA, GREATER
ACCRA, GHANA**
Tel: +233208115089
mdghanaservices@gmail.com
www.maghanaservices.com

African Security

AFRICA'S BIMONTHLY DEFENCE, DEFENCE INDUSTRY AND SECURITY MAGAZINE



DBDC
International Events
& Special Publications

www.dbdcgroup.com



INTERNATIONAL
SECURITY & DEFENCE
EXHIBITION