MARITIME C-UXS SYMPOSIUM

14-15 SEPTEMBER 2026, LONDON

NATO OTAN

Maritime C-UXS Symposium

LONDON, UNITED KINGDOM
14-15 SEPTEMBER 2026



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WELCOME

We gather at a pivotal moment. The rapid proliferation of unmanned systems, not only in the air but also on the surface and beneath the sea, is changing the character of warfare at a pace few could have imagined only a few years ago. Recent conflicts in the Middle East, the Black Sea, and the Red Sea have demonstrated both the tremendous utility of unmanned systems and our growing vulnerability to them.

These technologies are increasingly shaping how military operations are conducted, influencing everything from surveillance and targeting to strike operations and force protection. This necessitates us to catch up with the pace our adversaries are developing their unmanned capabilities in the maritime battlespace to secure our fleet. This race towards security is twofold. At first we have to strive towards solutions that are good, while also striving for perfection in the long term, as perfection is the worst enemy of quick gains.

While the C-UxS market has understandably focused primarily on the land domain, where most unmanned systems are employed and where law enforcement and commercial applications have driven innovation, the maritime environment presents a fundamentally different challenge. The sea is one of the most demanding operating environments on earth. Equipment must withstand harsh weather, salt, motion, constant vibration, and vast distances. Equally important, the way navies fight, maneuver, and protect themselves differs significantly from land operations. As a result, many solutions designed for the land domain do not translate effectively to maritime operations. This necessitates NATO and all Allies to form close relationships with industry to ensure these unique conditions are understood. Without such insight, quick introduction of new systems aboard our ships is out of reach. Because our navies require solutions conceived for the realities of the maritime battlespace and tailored to the unique operational challenges faced by sailors at sea. Solutions that also have to be delivered as soon as possible.

This symposium has been established to help close that gap and start forming that necessary relationship. One of the key mandates given to the NATO Specialist Team on Counter-Unmanned Systems (Maritime) by Allied navies was to strengthen engagement with industry and accelerate the exchange of knowledge between operators, procurement professionals, and innovators to deliver solutions as quick as possible for our sailors at sea. We hope industry partners will gain a deeper understanding of what fighting and operating in the maritime environment truly entails, as well as the specific challenges unmanned systems present to our fleets. At the same time, we hope our military and procurement experts will learn from the innovative solutions industry is developing and identify opportunities to adapt and mature them for maritime use.

Ultimately, our shared objective is simple: to improve the quality, relevance, and effectiveness of the solutions available to Allied navies, and deliver them at speed while focusing on good solutions without losing sight of perfection. By bringing together operational experience, procurement expertise, and industrial innovation, we can better support those serving on the world's oceans, protecting our trade routes, securing our borders, defending our interests, and ensuring they return safely home to their families and nations.

REAR ADMIRAL PAUL FLOS
CHAIRMAN OF THE NATO NAVAL ARMAMENT GROUP (NNAG)



THE AIR & SPACE POWER ASSOCIATION

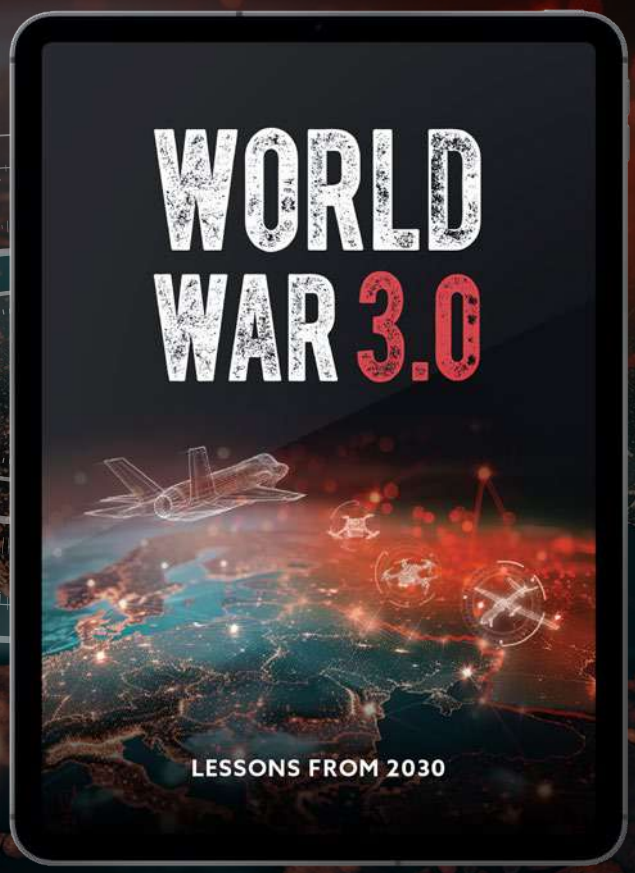
WORLD WAR 3.0

LESSONS FROM 2030

This book tells the story of how Britain could find itself at war in 2030 and how it might fare and fight in that war.

But this book wasn't created to be a prediction of what will happen, it was written as a wake-up call to act to make sure it does not.

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WELCOME

Welcome to the NATO Maritime Counter-Unmanned Systems (C-UxS) Industry Symposium. It is a privilege to bring together industry representatives, military operators, procurement professionals, and NATO staff from across the Alliance.

We meet at a time when Allied nations are making significant investments in defence and rebuilding military capability at a pace not seen in many years. Those investments are being shaped by a rapidly changing maritime operational environment, the emergence of disruptive technologies, and a renewed era of strategic competition that is forcing us to rethink how we fight, deter, and defend at sea.

As defence investment increases across the Alliance, the challenge is not simply deciding what capabilities to acquire. It is understanding where this rapidly evolving warfare space is heading. New developments in autonomy, artificial intelligence, sensing, networking, precision strike, and unmanned systems continue to reshape both the threat and the solution landscape. Keeping pace requires more than monitoring technology. It requires a shared understanding of how operational needs, emerging threats, and industrial innovation are evolving together. No single nation, organization, or company can develop that understanding alone.

This symposium provides an opportunity to bring together those who operate capabilities, those who develop them, and those responsible for transforming them into military capability. For military operators and procurement professionals, it is an opportunity to better understand where industry sees technology trends, emerging opportunities, and future solution spaces. For industry, it is an opportunity to gain a deeper understanding of the operational challenges facing Allied navies, how maritime Counter-UxS requirements are evolving, and where their capabilities can make the greatest contribution. Through open discussion and the exchange of perspectives, we can better distinguish meaningful signals from noise and focus our collective efforts on the areas that matter most.

My hope is that participants leave this forum with more than new contacts or a better awareness of current programmes. I hope we leave with a shared understanding of where this warfare domain is heading, how the threat and solution spaces are evolving, and where the greatest opportunities exist for cooperation. Most importantly, I hope these discussions strengthen the connection between operational need, capability development, procurement priorities, and industrial innovation, enabling us to deliver the capabilities required to support and protect the sailors serving at sea today and in the future.

CDR PHILLIP DURAND (CAN)
CHAIR, NATO SPECIALIST TEAM ON C-UXS (MARITIME)

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EVENT INFORMATION

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VENUE INFORMATION

The following rooms are being used for the conference:

Lower ground floor
- Old Reading room
- Trafalgar Suite
- The Bar and Main Hall of Carisbrooke

Ground floor
- Mezzanine Balcony of Carisbrooke

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I AGENDA

AGENDA: DAY 1: 14 SEPT 26	
0930 - 1000	Registration, coffe and networking
1000 - 1015	ST Chair Welcome and Opening Remarks: Cdr Phillip Durand
1015 – 1045	Guest Speaker: Greg Ivey, Director Armaments and Major Capability Programmes Directorate, NATO Headquarters
1045 - 1200	**Panel 1: How we Fight at Sea – the Challenges of combating UxS in the Maritime Environment** *Moderator: Marcom Deputy Chief Of Staff Plans Commodore Sean Williams* - MARCOM Command Group Representative - Ukrainian Navy Representative (pending MARCOM decision) - Further representatives to be announced
1200 – 1300	Lunch
1300 – 1320	Sponsor Company Briefing: **Hensoldt** - Rene Kleint , Head of Sales Land & Maritime Solutions - Kai Leichauer, Project Manager Naval Systems
1325 – 1345	Sponsor Company Briefing: **Quantum**
1345 - 1500	**Panel 2: Innovating to Combat the UxS Threat** *Moderator: Richard Atkinson, Head of Land and Maritime Section, D2IA* - Rhys Roberts, Commercial & Adoption Manager at NATO DIANA - Commodore Paul Flos, Chairman NATO Naval Armaments Group - Further representative to be announced
1500 – 1530	Coffee Break
1530 – 1550	Sponsor Company Briefing: **Online Oceans** **-** George Morton, CEO
1555 - 1615	Sponsor Company Briefing: **Thales (NL)** **-** Erik Van Kimmenaede, Marketing Director Naval Radars and Systems
1615 - 1630	Chair Closing Remarks
1700 - 1900	No-host Social/Networking Event

AGENDA: DAY 2: 15 SEPT 26	
0800 - 0900	Coffee and Networking
0900 – 0915	ST Chair Welcome and Opening Remarks for Day 2
0915 - 0935	Sponsor Company Briefing: **Rohde & Schwarz** - Bob Moll, Market Development Manager CUAS, Detmer Swart Account Manager Government,Security and Defence
0940 - 1000	Sponsor Company Briefing: **ACUA Ocean** - John Hunnibell MA FIMarEST, Chief Product Officer
1000 – 1030	Coffee Break
1030 - 1200	**Panel 3: The Challenges of Procurement – National Perspectives** *Host: Cdr Phillip Durand, Chairman Counter-UxS Specialist Team* - Commodore Matt Ryder, Chairman Above Water Warfare Capability Group - Maurice van Rooijen, Dutch MoD Policy Strategist Innovation procurement - Commander Pasi Puoskari, Head of Finnish Maritime C-UxS Procurement Programme
1200 – 1300	Lunch
1300 - 1325	Sponsor Company Briefing: **Kraken** - TBC
1345 - 1500	**Panel 4: Commercial Insights into Maritime Counter-Drone Challenges)** *Host: Paul Rouffaer, NIAG Liaison Officer to the NATO Naval Armaments Group* - Misa Kangaste, Director, Customer and Government Relations, Sensofusion - Lucy-Marie Wittek, Key Account Manager Elbit Systems Deutschland - Gabriel E. W. Nichols, Business Development Manager, KONGSBERG Defence Systems - Jascha-Andrej Kalinski, Sales & Business Development Manager Naval Systems, MBDA Germany
1445 – 1500	Chair Closing Remarks

I NATO SPECIALIST TEAM

COUNTER-UNMANNED SYSTEMS (MARITIME)

The NATO Specialist Team on Counter-Unmanned Systems (Maritime) (C-UxS(M)) was established by the NATO Naval Armaments Group (NNAG) under the Above Water Warfare Capability Group (AWWCG) in response to the rapidly growing threat posed by unmanned systems operating in the air, surface, and underwater domains. Allied navies recognized that the proliferation of unmanned systems has created a significant capability gap in the maritime environment and that most existing counter-UxS solutions have been developed primarily for land operations rather than the unique demands of naval warfare.

The NNAG directed the Specialist Team to take a different approach than traditional capability development. Rather than beginning with predefined technical requirements, the team was tasked to identify and articulate the operational problems faced by maritime forces, develop NATO problem statements describing those challenges, and engage industry, innovation organizations, researchers, and Allied nations to explore potential solution spaces. The Specialist Team was further directed to use symposiums, demonstrations, experimentation campaigns, industry challenges, and other engagement activities to improve awareness of maritime operational requirements and accelerate the development of promising capabilities.

The team's goal is to generate a diverse solution space tailored to the harsh realities of the maritime environment and aligned with how Allied navies fight at sea. Maritime forces operate in conditions that impose challenges rarely encountered on land, including sea clutter, ship motion, weather, salt exposure, electromagnetic congestion, limited shipboard space, complex integration constraints, and the requirement to operate alongside existing combat systems while deployed far from shore-based support.

Working closely with operators, procurement organizations, NATO staffs, innovation programs, and industry partners, the Specialist Team seeks to identify the most promising technologies, accelerate experimentation and evaluation, and provide Allied nations with the evidence required to make informed capability investment decisions. Through this collaborative approach, NATO aims to improve the speed at which maritime C-UxS capabilities are developed, matured, and transitioned into operational service across the Alliance.

KEYNOTE SPEAKERS

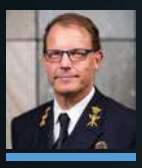


Gregory W. Ivey, M.S.M., C.D.

Director of Armaments and Major Capability Programmes

Defence Industry, Innovation and Armaments Division, North Atlantic Treaty Organization

Greg Ivey serves in the Defence Industry, Innovation and Armaments Division of NATO International Staff as Director of Armaments and Major Capability Programmes. Situated in NATO Headquarters, Brussels, his team of experts plays a leading role in policy and capability development, and supports political consensus decision making on a wide range of joint, land, air, maritime and space capabilities required for the full range of the Alliance's missions. His directorate supports NATO Defence Planning activities and related capability initiatives. To that end, he provides capability-related advice to NATO senior policy committees.



Rear Admiral Paul Flos

Program Director International Naval Materiel Cooperation at MOD

Rear Admiral Paul Flos is a seasoned naval officer with over 30 years of experience in operational, technical, and diplomatic roles. Born in Tegelen, Netherlands, in 1966, he began his naval career at the age of 18, when he started his officer training at the Royal Naval College in Den Helder and served on several naval vessels, including HNLMS Tromp and HNLMS De Ruyter, for over 10 years in operational positions. As a naval officer, Rear Admiral Flos has had a distinguished career, with a strong focus on engineering and technical expertise. He served as Head of the Engineering Department on HNLMS Tjerk Hiddes and HNLMS Johan de Witt, and as Defence Attaché in Syria, Lebanon, and Iran for 2 years. He also worked at the NATO Helicopter Management Agency in Aix-en-Provence, France.

From 2019 to 2023, Rear Admiral Flos served as Head of Naval Systems at the Defence Materiel Organisation, now known as COMMIT Materiel and IT Command. Currently, he serves as Director of Program International Naval Materiel Cooperation, fostering collaboration and cooperation between nations and industries to enhance maritime defence capabilities, with a focus on Unmanned Systems and protecting Critical Underwater Infrastructure. Additionally, since April 2025, he has held the position of Chairman of the NATO Naval Armament Group (NNAG). Control Squadron at Vandenberg Air Force Base, California, among others. Before serving in his current assignment, Gen. Saltzman was the Deputy Chief of Space Operations for Operations, Cyber, and Nuclear, United States Space Force, the Pentagon, Arlington, Va.

PANEL CHAIRS



Commodore Sean Williams

Deputy Chief of Staff Plans, MARCOM

Commodore Sean Williams joined the Canadian Armed Forces in 1997 as a Maritime Engineer, graduating from the Royal Military College in Kingston, Ontario. Following engineering training at HMS Sultan in the United Kingdom, and the Canadian Forces Naval Engineering School, Commodore Williams joined His Majesty's Canadian Ship Regina, and deployed to the Arabian Sea as part of Operation Apollo. He later served as the Engineering Officer of His Majesty's Canadian Ship Ville de Québec. That assignment included a deployment to the Mediterranean Sea as part of Standing NATO Maritime Group 1 and participation in Operation Active Endeavour.

Commodore Williams has significant experience working ashore, specializing in the in-service support of naval ships and equipment. He is also experienced in Project Management, having participated in the procurement of the Royal Canadian Navy's Riverclass Destroyers. He has served as the career manager for all of the Royal Canadian Navy's technical officers, and was the Executive Assistant to the Chief of the Defence Staff. In 2020, he assumed Command of Canadian Forces Base Halifax, a post he held for two years. Commodore Williams is a graduate of the Canadian Forces College in Toronto, Ontario, having completed the Joint Command and Staff Program in 2016, the Canadian Security Studies Program in 2019 and the National Security Program in 2023. Commodore Williams joined the Allied Maritime Command as the Deputy Chief of Staff for Plans in August 2024.

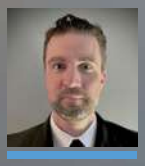


Rich Atkinson

Head of Land and Maritime Capabilities Defence Industry, Innovation and Armaments Division, NATO

Rich Atkinson is the Head of the Land and Maritime Section within NATO Headquarters' Defence Industry, Innovation and Armaments Division (D2IA). He leads multinational efforts to strengthen interoperability, accelerate capability delivery and advance NATO's land and maritime armaments programmes in collaboration with Allied nations, industry and international partners. A retired Royal Navy flag officer with extensive experience in strategic policy, capability development, defence finance and programme management, Rich has previously held a number of high-profile appointments across the UK Ministry of Defence, Cabinet Office and NATO. He played a key role in shaping the Royal Navy's contribution to successive UK Spending Reviews, influencing significant increases in defence investment. As Head of Strategic Finance, he managed oversight of the Royal Navy's £8 billion annual budget and secured substantial additional funding for major capability programmes, including advanced complex weapon systems.

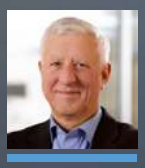
At NATO, Rich has overseen the work of the NATO Naval Armaments Group (NNAG), coordinating over 1,500 national experts from across 50 specialist teams managing 72 NATO standards while strengthening collaboration with organisations such as the European Defence Agency and Maritime Theatre Missile Defence Forum. A former Commanding Officer of a Type 45 destroyer, Rich combines operational credibility with strategic vision. He is a graduate of the Manchester Business School and a Defence-accredited Programme and Project Management Practitioner.



Cdr Phillip Durand

Chair, NATO Specialist Team on C-UxS (Maritime)

Cdr Phillip Durand joined the Royal Canadian Navy in 2003. After graduating from the Royal Military College of Canada, he was posted to HMCS Athabaskan as a Bridge Watchkeeper, then as the ship's Navigating Officer. In 2011, Cdr Durand return to the Royal Military College as a Squadron Commander, where he concurrently completed his Masters in Disaster Management. In 2013, he was posted to HMCS Montreal as the ship's Operation Officer, in which he oversaw several different missions, including the Canadian participation in the Maritime Theatre Missile Defence (MTMD) At-Sea Demonstration. In 2016, he was posted to Ottawa in various roles, including positions at Strategic Joint Staff, Canadian Forces Intelligence Command and at the Director of Naval Requirements. He represents Canada at the NATO Underwater warfare and Above Water warfare Capability Groups and assumed Chair of the Specialist Team for C-UxS (Maritime) in January 2026



Paul Rouffaer

NIAG Liaison Officer to the NATO Naval Armaments Group

Captain RNLN (rtd.) Paul Rouffaer joined the Royal Netherlands Naval Academy in 1977 and served from 1980-2015 as a Weapons Engineering Officer (WEO) in the Royal Netherlands Navy. In 2015 Paul Rouffaer made the transition to Industry (Thales), and serves since 2020 as the Deputy Head of the Netherlands delegation to the NATO Industrial Advisory Group (NIAG), and serves since 2021 as the NIAG Liaison to the NATO Naval Armaments Group (NNAG).

USV PIONEER

ACUA OCEAN



SENTINEL

HOMELAND MARITIME SECURITY & CRITICAL INFRASTRUCTURE PROTECTION: DETER, DETECT, PROTECT VIA SENTINEL USV SQUADRONS

ACUA Ocean's **USV PIONEER** is a seaworthy and robust aluminium **Small Waterplane Area Twin Hull (SWATH) USV**, the **first USV fully certified by the UK's Maritime and Coastguard Agency**. At **14m length**, she is built for motion stability, high endurance, and the deployment of payloads and sensors in heavy sea states. Her unique naval architecture provides the seakeeping **stability and payload mass allowance of larger more expensive vessels**, enabling cost-effective embarkation of sensors, payloads and weapons systems of up to 7 tonnes, to operate in in **sea state 6+**.

USV PIONEER configured in a **SENTINEL** mode delivers a **persistent, distributed maritime security picket architecture** through multiple USVs with **multi-domain sensors**, and **cost-effective point-defence air and surface effectors**, providing the persistent geographic mass that legacy manned platforms cannot.

ACUA Ocean is working with technical sensor and effector supplier partners to deliver the **SENTINEL solution** and aims to demonstrate an **integrated C-UAS/USV solution in early 2027**.

USV PIONEER PROVIDES:

SPACE | WEIGHT | POWER | STABILITY | PERSISTENCE | COMPLIANCE

ROBUST RELIABLE RECONFIGURABLE

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ACUA OCEAN
USV PIONEER: SENTINEL

ACUA Ocean's USV PIONEER, configured in SENTINEL mode, is intended to provide a persistent and distributed maritime security picket against uncrewed threats. Multiple PIONEER vessels, equipped with multi domain sensors and affordable point defence effectors, could establish enduring surveillance and protection across geographically dispersed coastal, underwater and offshore infrastructure. This addresses a requirement that conventional crewed platforms struggle to sustain economically at scale.

PIONEER is a robust, seaworthy aluminium Small Waterplane Area Twin Hull uncrewed surface vessel and the first USV to achieve code certification from the UK Maritime and Coastguard Agency. At 14 metres, its architecture provides exceptional motion stability, extended endurance and station keeping capability, supporting payload operations in demanding maritime conditions.

A defining feature is its modular payload architecture. PIONEER can accommodate sensors, mission systems and effectors weighing up to seven tonnes, while its standardised payload interface enables rapid installation, removal and interchange with limited platform modification and reduced integration effort. This permits a single platform to undertake different missions as operational requirements evolve.

This principle is being demonstrated through ACUA Ocean's collaboration with Babcock and Frankenburg Technologies. Their July 2026 Memorandum of Understanding brings together Babcock's launcher technology, Frankenburg's Mark I low cost precision guided interceptor and PIONEER, with the objective of developing scalable maritime counter UAS capability.

The collaboration illustrates the wider SENTINEL proposition: an affordable, persistent maritime platform capable of carrying interchangeable sensors and effectors, creating a scalable distributed defence architecture rather than another exquisite standalone vessel.


RENDER OF MK2 USV PIONEER IN THE SENTINEL CONFIGURATION

ACUA Ocean is a UK based developer and operator of advanced uncrewed surface vessels, with operational experience across defence and commercial maritime applications.

www.ocean.tech



Shaping the Future of Maritime Counter-UAS

Join **HENSOLDT** at the NATO Maritime C-UAS Industry Symposium in London and discover our comprehensive Counter-UAS and C-UxS portfolio, combining state-of-the-art surveillance sensors, intelligent data fusion, and operationally proven command-and-control solutions. Learn how **ELYSION** and the MDOcore AI-powered data layer enable rapid threat detection, assessment, and response across maritime and joint operational environments. Explore maritime-specific capabilities including the **MEOS III** electro-optical system and the **Spexer 2000 3D MKIII** Naval radar, and gain insights into real-world concepts for harbour, vessel, naval base, and fleet protection.



HENSOLDT – Innovations for a safer world

www.hensoldt.net

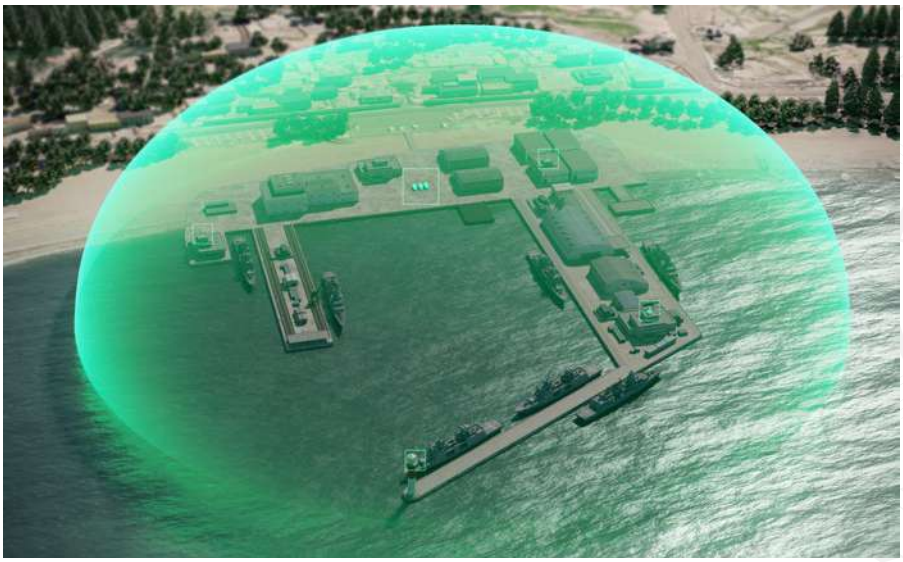
HENSOLDT
Detect and Protect.



MARITIME COUNTER-UXS: FROM SENSOR SUPERIORITY TO SOFTWARE-DEFINED DEFENCE

Europe's security increasingly depends on resilient maritime forces. Yet the operating environment is becoming more complex: unmanned systems can approach vessels, ports and naval bases with low signatures, unpredictable behaviour and increasing range. For naval decision-makers, the challenge is not simply to detect a drone – it is to create a reliable picture of the situation, assess threats in real time and respond effectively while integrating new capabilities into existing architectures.

HENSOLDT addresses this challenge with a system-of-systems approach to maritime Counter-UxS. Building on decades of experience in maritime system integration, HENSOLDT combines proven sensors with intelligent software to deliver scalable and interoperable solutions for vessels, harbours, bases and fleets.



At the core is Elysion®, HENSOLDT's software-based C-UxS solution, which fuses sensor data to support rapid detection, identification and threat assessment. Its open architecture enables the integration of existing and future sensors and effectors. The sensor layer can draw on HENSOLDT's maritime portfolio, including MEOS III, providing high-resolution thermal and daylight imaging, auto-tracking, motion detection and laser ranging, and Spexer 2000 3D MKIII Naval, delivering high-quality tracks, superior classification and gapless hemispheric coverage at high update rates.

The system can be expanded with further capabilities such as direction finding and jamming, integrating sensors and effectors from the wider HENSOLDT portfolio as well as third-party technologies. This enables navies to adapt the architecture to evolving mission requirements without being locked into a fixed configuration.

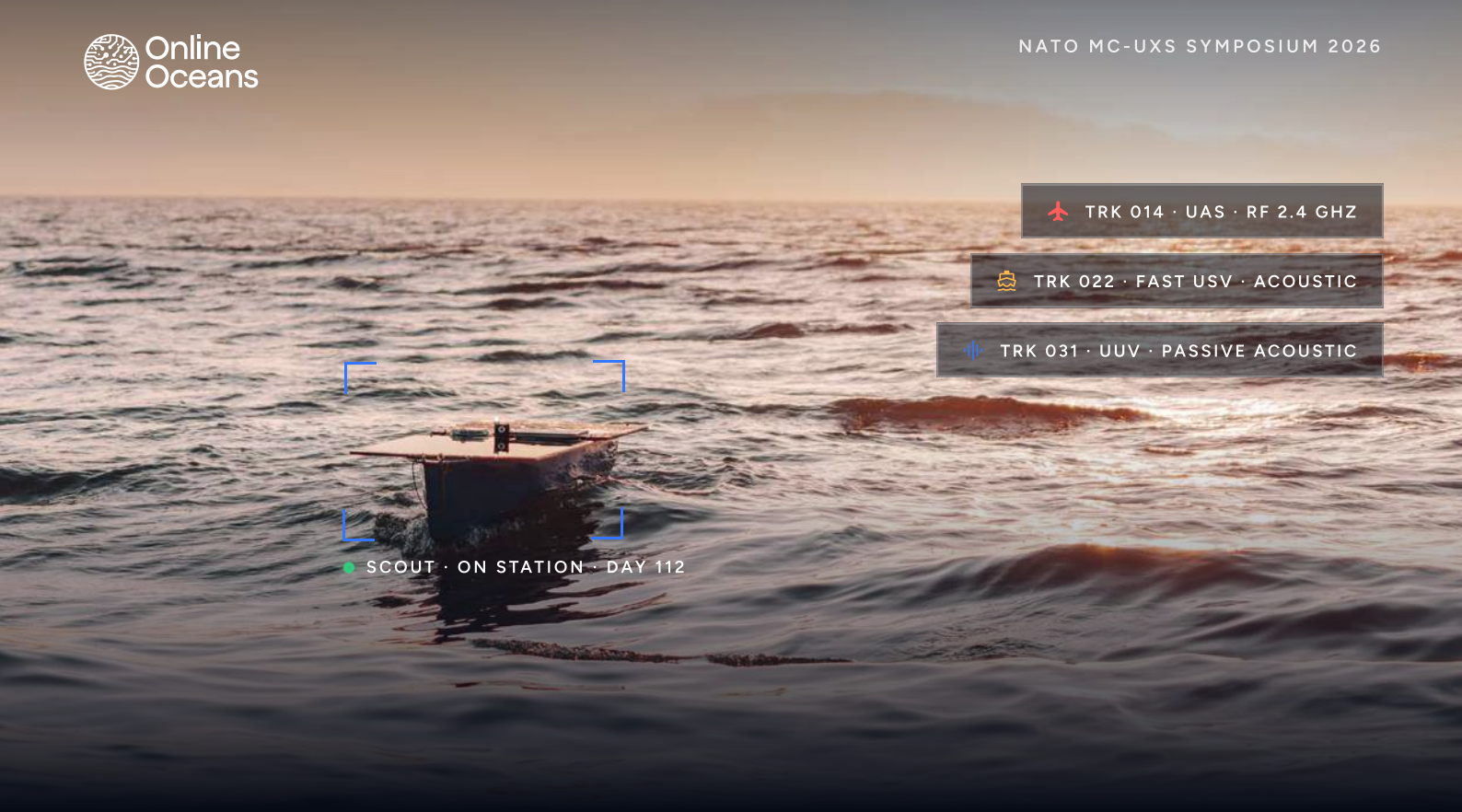


Looking ahead, this evolution will be accelerated by Software-Defined Defence. Defence systems will increasingly be defined not by fixed hardware configurations, but by continuously evolving software, data and AI. With technologies such as MDOcore, HENSOLDT is shaping this transition by connecting sensors and data across domains to create a continuously evolving operational picture

www.hensoldt.net

Online Oceans

NATO MC-UXS SYMPOSIUM 2026



COUNTER-UXV · PERSISTENT DETECTION

Hear the threat before it arrives

No crew. No fuel. No gaps. Scout is a solar-electric ocean robot that keeps acoustic and RF sensors on station for months, a persistent picket against uncrewed threats in the air, on the surface and below it.

AIR · UAS

RF + acoustic drone detection

Passive RF and acoustic sensing of small aerial drones, extending your air picture offshore.

SURFACE · USV

Fast USV acoustic tracking

Acoustic detection, tracking and classification of fast uncrewed surface craft, day and night.

SUBSURFACE · UUV

Passive acoustic UUV watch

A persistent overwatch for uncrewed underwater vehicles operating near critical infrastructure.

2.4 M / 80 KG · SOLAR-ELECTRIC · MULTI-MONTH PERSISTENCE · SEA STATE 6, SURVIVES 8+ · ONE-PERSON SHORE LAUNCH

Let's talk counter-UxV

Find us in the networking space, or start a conversation at onlineoceans.com

SCAN FOR SCOUT USV



ONLINE OCEANS: OCEAN DATA COLLECTION WITH SCOUT USV

The counter-UxS problem is fundamentally one of persistence and mass. Threats are cheap, numerous and always present; the sensors watching for them are typically expensive, scarce and episodic. Online Oceans exists to invert that equation.



Based in Southampton, UK, Online Oceans manufactures Scout, a 2.4m solar-electric uncrewed surface vessel designed for multi-month persistence at sea. At 80kg, Scout fits in a standard van and launches with one person, yet remains on station for six months or more, carrying acoustic, RF and electro-optical payloads on a flexible bus. Scouts have been designed to scale, allowing it to be fielded in numbers that make distributed, always-on surveillance genuinely affordable, whether as a hydrophone picket across a strait, an RF survey and detection line around critical infrastructure, or a persistent tripwire ahead of a task group.

Scout is powered by SentryOS, Online Oceans' onboard autonomy stack, and commanded through TETHER, a command and control platform built for operating many vehicles with few people. Together they turn individual platforms into a coherent, taskable sensing mesh that integrates with existing NATO systems.

The approach is already proving itself on operations and exercises with the UK MOD, NATO CMRE and industry partners, including deployment at REPMUS 25 and 26. From ambient noise collection in the Baltic to RF survey work for UK defence customers, Scout is demonstrating that low-cost platforms can deliver high-value effects.

Founded in 2025 Online Oceans is a British company building at pace. Visit our stand to see Scout up close, or scan the QR code to learn more.

www.onlineoceans.com





Unmanned Systems for Maritime Operations

Quantum Systems is a leading European deep-tech prime for interoperable unmanned systems.

Founded in 2015 as a spin-off from the Bundeswehr University Munich, Quantum Systems develops modular systems for defence, security and civil resilience. The company combines mission-proven hardware with software and artificial intelligence for autonomous applications in the air, on land and at sea. Quantum Systems is headquartered in Gilching near Munich, with additional locations including the United States, Australia, Ukraine and Romania.

Red Air Target

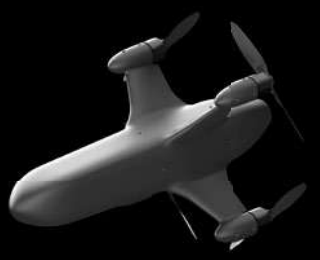
Target Drone



MTOW	50 kg
Cruise Speed	220 km/h
Wingspan	2.6 m
Flight Endurance	70 min

Skyron 400

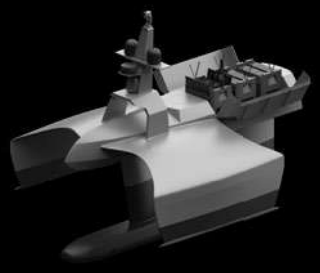
Next-Gen Counter UAV Interceptor



Maximum Flight Altitude	5,000 m
Flight Time	20 min
Maximum Flight Speed	380 km/h
Interception Range	50 km

Seavex

Maritime ISR & Counter-UAS Platform



Endurance	up to 2 months
Max Speed	15 knots
Payload	up to 400 kg
Survivability	up to Sea State 6

- Multi-domain capabilities across air, surface and underwater operations
- Interoperable and open systems
- AI-enabled decision support and autonomous mission execution
- Mission-ready solutions for demanding maritime environments

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COUNTERING UNMANNED THREATS AT SEA REQUIRES A MULTI-DOMAIN APPROACH

Maritime security is being reshaped by a growing range of challenges, from unmanned systems operating across the air, surface and subsurface to asymmetric threats like shadow fleet vessels. Within this broader threat environment, effective counter-UxS depends on integrating multiple platforms and capabilities within a layered architecture. This architecture must connect sensors, autonomous systems, AI, command and control, and effectors to enable detection, tracking and interception.

For NATO and allied forces, the implication is clear: interoperability must be built into the architecture from the outset. The crucial advantage lies in using open interfaces to integrate cross-domain, multi-vendor data into a common operational picture, allowing each capability to contribute to a shared mission.

Quantum Systems' expansion into the maritime domain demonstrates how an interoperable, multi-domain architecture can work in practice. Building on its extensive experience in aerial ISR for naval operations, the company added its own USVs and UUVs to its portfolio in 2026. These systems are set to participate in this year's REPMUS exercise. Their operational value is further enhanced by integration into a shared command-and-control architecture.



MOSAIC UXS provides that shared C2 layer. The ITAR-free, vendor-agnostic software suite delivers integrated command and control for maritime counter-UxS operations. Core capabilities include fusing large volumes of data from sensors across multiple UxS and enabling AI-powered, swarm-level mission planning and control. Its open architecture incorporates inputs from coastal radar, satellite intelligence, third-party sensors and external unmanned systems. Forces can therefore expand coverage by adding autonomous nodes without proportionally increasing crew numbers or relying on additional manned support vessels.

As maritime threats grow more numerous, distributed and adaptable, shortening the sensor-to-effector chain will be decisive. **Maritime counter-UxS is a multi-domain challenge that requires an integrated, multi-domain response.**

www.quantum-systems.com



Layered UxV Defense



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Thales' maritime C-UxV capabilities are based on providing capabilities for the complete C-UxV chain: detect – track - classify - decide – neutralize. The process begins with detection, where both active and passive sensors create a coherent operational picture from multiple inputs.

While continuous tracking is done by these sensors, also a pre-classification is performed. This pre-classification is further enhanced by the mission system.

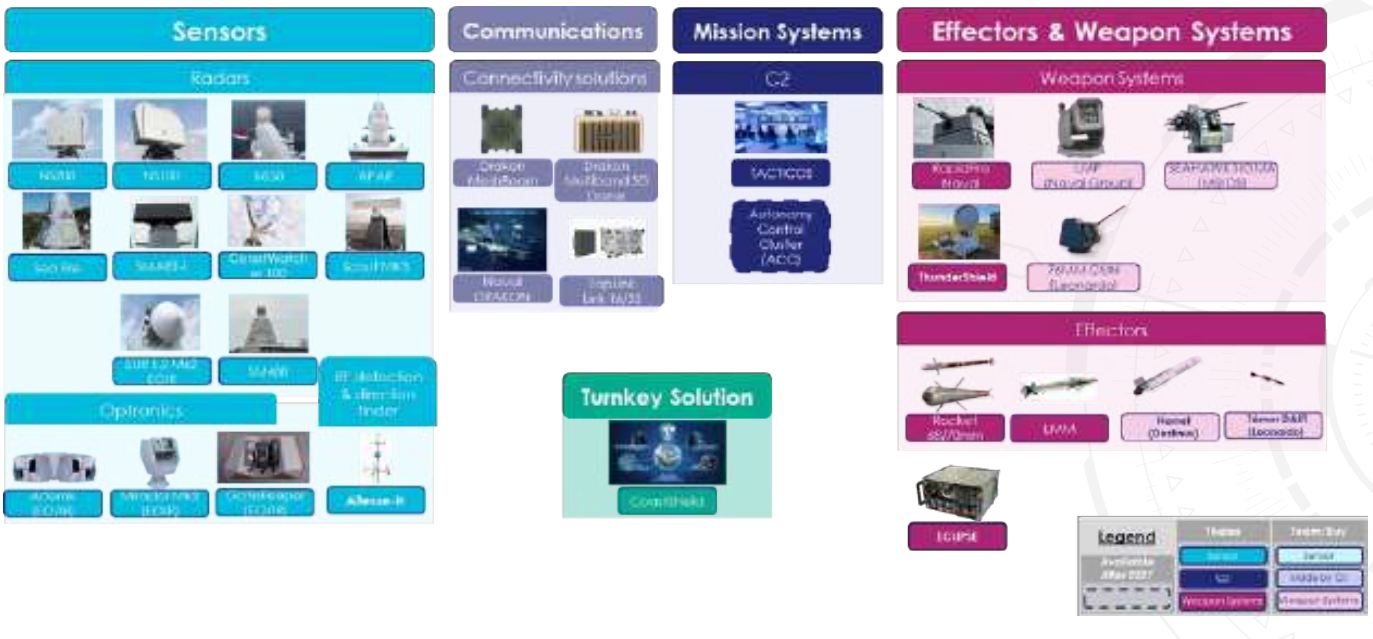
The operational picture with identified threats is used as input for threat evaluation and weapon assignment. Thales' approach emphasizes layered defense using automated threat evaluation and weapon assignment, where the system can correlate detections with relevant behaviors, threat indicators, and operational context. This speeds operator understanding while maintaining the necessary governance for real-world rules of engagement. The result is timely cueing of engagement means to ensure effective defense using either hard kill or soft kill means.

From detection through neutralization, Thales provides a wide variety of integrated solutions using Thales as well as non-Thales subsystems:

- Detect-Track-Classify: Radars (a.o. NS50, NS100, STIR, CW100), ESM (Vigile/ Sentinel, Altesse-H)
- Classify-Decide: TACTICOS CMS
- Neutralize: Hard Kill (76mm DART, RapidFire 40mm gun, LMM short range missile, 70mm rockets counter-drone drones), Soft Kill (Eclipse and ThunderShield)

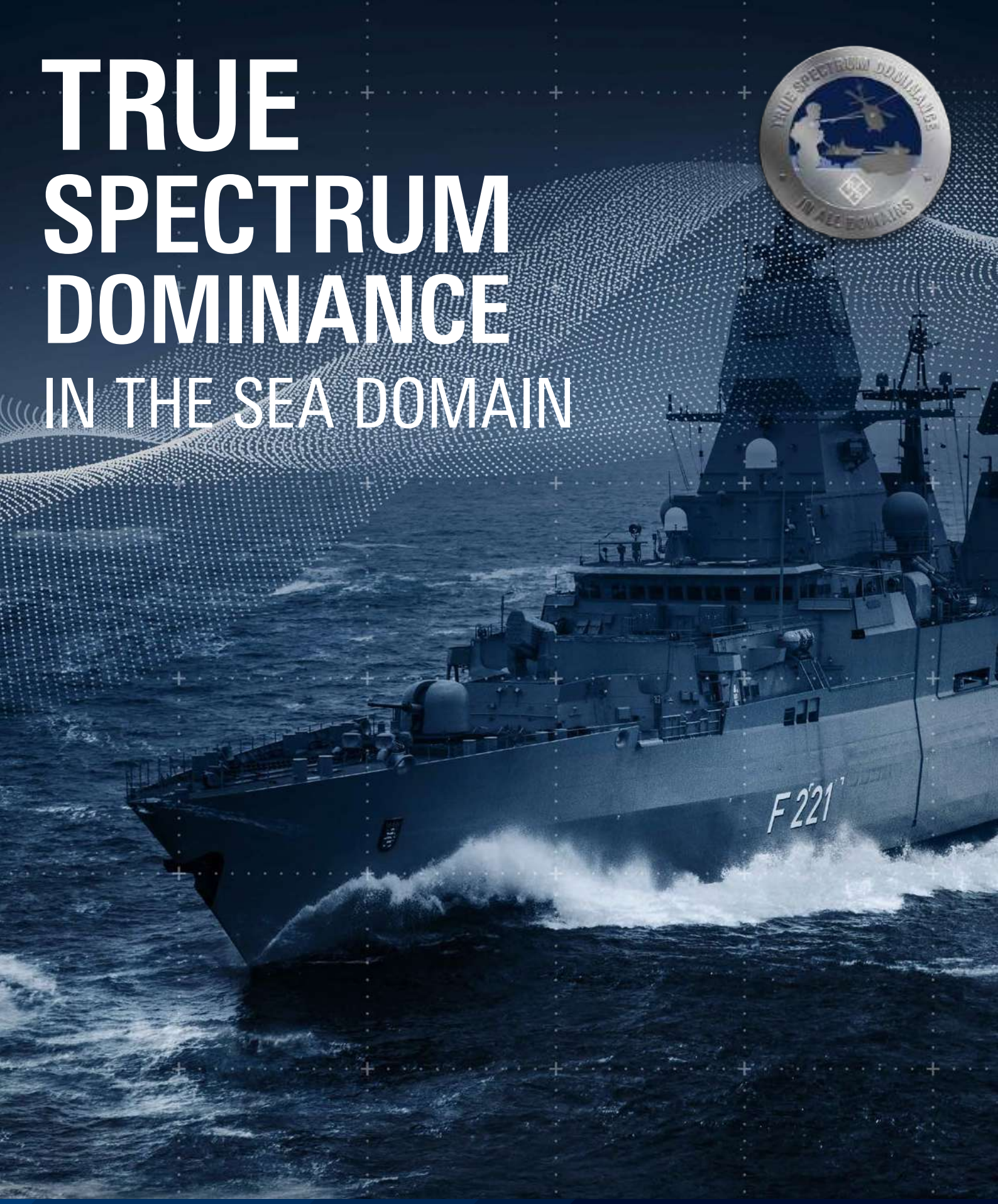
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In the digital era, information superiority is taking on a new, expanded meaning. Rohde & Schwarz helps navies worldwide to achieve this by providing communication, electronic support measures, intelligence, test & measurement and security solutions for the whole range of naval platforms and shore-based platforms.

As a system integrator and manufacturer of core components, the company delivers complete subsystems and trusted solutions for maritime platforms. This leads to higher reliability, performance and efficiency which results in more value for money.

Based on specific customer requirements and operating concepts, Rohde & Schwarz develops, produces and integrates solutions for today's challenges in the maritime domain.

This includes subsystems like integrated communication systems, ESM and ECM solutions, coastal surveillance, big data analytics, sensor fusion, EMC / EMI testing, integrated antenna systems and top deck design as well as maritime cyber defense solutions. All from one source.

C-UXS

Building on Rohde & Schwarz expertise in Electro Magnetic Spectrum Operations (EMSO) and maritime platform integration, our C-UXS capability provides a scalable, integrated approach to detect, identify, track and mitigate unmanned systems across all relevant domains. The solution combines multiple sensing technologies with complementary effectors from trusted partners.

An open, modular architecture enables the capability to be tailored to different vessel types, mission profiles and evolving UXS threats. Sensor data is fused within a command-and-control environment to provide a coherent operational picture, enabling rapid detection, reliable identification, threat evaluation and coordinated response. The solution supports effective countermeasures against flying, driving and swimming drones. The system can operate on its own while also having the possibility to be integrated with existing Combat Management Systems and / or Above-Water Warfare Suits to enable coordinated operations as part of the wider maritime defense architecture.

www.rohde-schwarz.com/cuas





SHAPING THE FUTURE OF AIR AND SPACE POWER

The Air and Space Power Association (ASPA) is an authoritative independent voice and platform for discussion and debate on how air and space power influences today's world and its relevance to the future.

Our mission is to advocate for UK Air & Space Power and convene those who secure and shape it.

The Air & Space Power Association's aim is to provide an air and space power focus for stakeholders across all domains. Our membership comprises professionals with a wealth of experience in the air and space power domains and is open to individuals, businesses, military units, embassy and government personnel, the aviation, defence and space technology community, academics and the media. Indeed, anyone who has an interest in air and space power.

We hold a series of events throughout the year that create a platform for our members and guests to listen and contribute to the latest developments and trends in air and space power as well as multi-domain and joint operations, helping to define today's environment and shape the future.

We also deliver world-class conferences such as The Chief of the Air Staff's Global Air & Space Chiefs' Conference on behalf of the Royal Air Force, the UK Space Power Conference on behalf of UK Space Command, the Battlespace Advantage Symposium for the Cyber & Specialist Operations Command and a series of NATO technical and operational working group events. These conferences provide a strategic global focus on collective security concerns faced by UK and international partners and global allies as well as providing a platform to discuss emerging thinking and strategy on a wide variety of operational capability and technology across all domains.

Join us. Join the air and space power debate.

For further details on corporate or individual membership of the ASPA please contact us on:
+44 (0)1285 711457 I membership@airspacepower.com I www.airspacepower.com

NATO OTAN Maritime C-UXS Symposium
LONDON, UNITED KINGDOM 14-15 SEPTEMBER 2026

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We are keen to involve industry from all nations where appropriate.
If you have any suggestions for industry participation in future events from your own country please contact **clive@airspacepower.com**

