

November 2024

ERANEWS



**EW LIVE TARTU:
FIRST LIVE ON SITE
DEMO OF PLESS OTH
SYSTEM ABROAD**

TARTU 2024

**ALBANIA - THE 69TH COUNTRY
ON THE LIST OF REFERENCES**



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**ERA CELEBRATES 30 YEARS
SINCE ITS FOUNDATION**



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**MOU: START OF COOPERATION
WITH GERMAN DIEHL**



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ERA IS AT THE GATES OF THE 69TH COUNTRY - ALBANIA!

ERA HAS ANNOUNCED THAT IT HAD BEEN AWARDED A CONTRACT TO DELIVER TWO WIDE -AREA SURVEILLANCE SYSTEMS MONITORING AIR TRAFFIC OVER THE REPUBLIC OF ALBANIA. ERA IS PROUD TO ADD ALBANIA AS THE 69TH COUNTRY TO THE LIST OF ITS PARTNERS USING ERA TECHNOLOGIES.

ERA will supply two Wide Area Multilateration systems (WAM) consisting of two connected networks of ground stations of its latest, fifth-generation, system MSS-5. The planned installation is intended to serve as an ATC solution covering the TMAs of the Tirana airport, and a brand-new airport - currently under construction - for the city of Vlora. The contract was assigned by Albcontrol, the Albanian ANSP.

One of the priorities of Albcontrol has been to cover a major part of Albania's air space with up-to-date technology to provide surveillance coverage throughout the country, both in mountainous terrain and at low flight levels near the seashore. Additionally, Albcontrol should obtain control of air traffic in TMAs of the two major airports including the Tirana International Airport.

"Albania deserves only the best and I strongly believe, that the multilateration system by ERA is the best technology available on the market," stated Dritan Isaku, the CEO of Albcontrol.

To meet this challenge, ERA will supply its multi-sensor surveillance system MSS-5, combining the advantages of multilateration and ADS-B technologies.



"Albcontrol has been aware of the strong position of ERA in this region. The references for the systems functioning successfully in Greece, Romania, Turkey and Bulgaria were one of the key factors in selecting us for this project", stated Ondřej Chlost, ERA CEO.

The ERA team has chosen the suitable locations for all the ground stations within the site survey. The completion of the project, followed by the Site Acceptance Tests, is being carefully planned and expedited to align with and support the operational readiness of the new Vlora airport.

ERA WILL SUPPLY VERA-NG SYSTEM TO THE ARMED FORCES OF MOLDOVA UNDER THE EU INITIATIVE EPF

THE CZECH COMPANY ERA AND THE ESTONIAN CENTRE FOR DEFENCE INVESTMENTS (ECDI) HAVE FACILITATED A CRUCIAL PROJECT UNDER THE EUROPEAN PEACE FACILITY (EPF) INITIATIVE FOR THE MOLDAVIAN MINISTRY OF DEFENCE. THE SUPPLY OF ONE OF THE VERA-NG PASSIVE SURVEILLANCE SYSTEMS BY ERA AIMS AT BOLSTERING THE DEFENCE CAPABILITIES OF THE REPUBLIC OF MOLDOVA.



The original Czech and unique worldwide system PET VERA-NG (in NATO terminology Passive ESM Tracker) is supposed to serve as a cornerstone for the planned comprehensive defence of the state of Moldova. It is designed to integrate seamlessly with other defence solutions and this integration will significantly elevate the country's ability to monitor and protect its airspace.

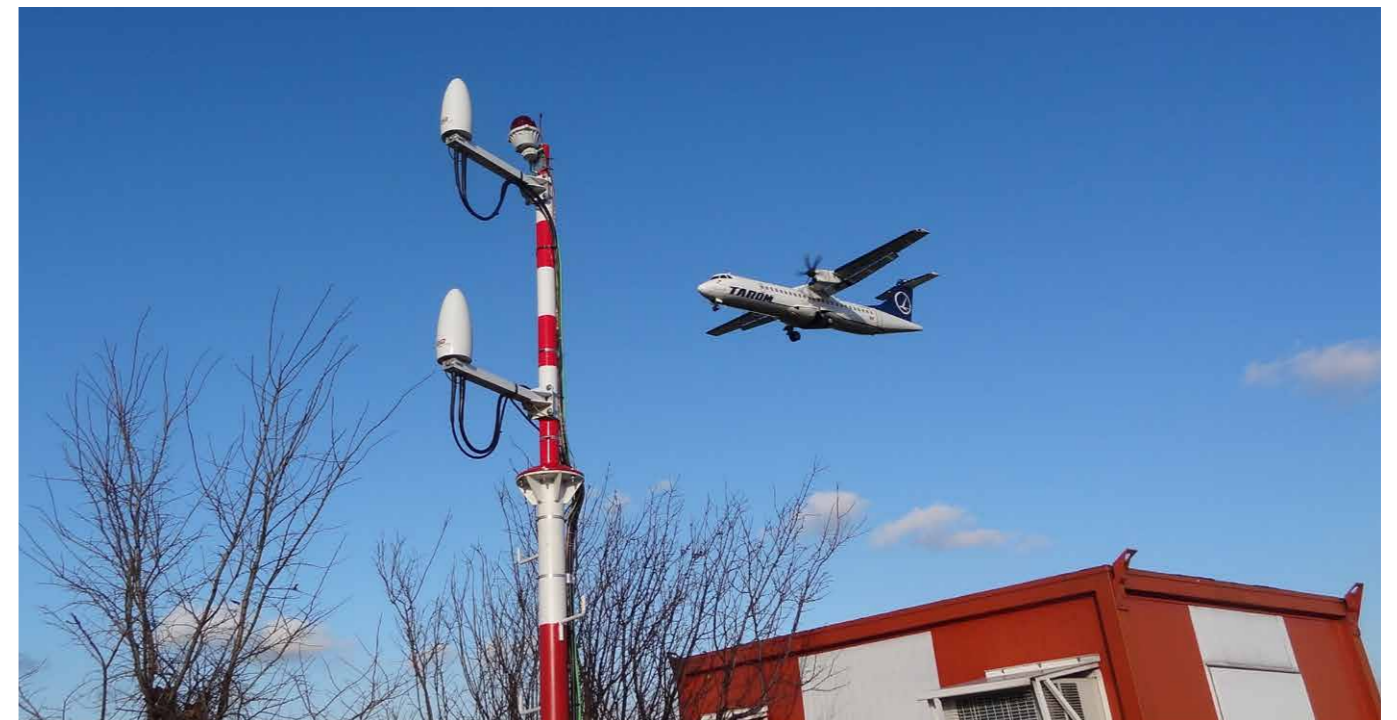
VERA-NG is the only battle proven passive surveillance system capable of solving different use cases at the same time: Air Surveillance, Ground Based Air Defence and Electronic Warfare. It is designed for detection, localization, tracking and identification of air, ground, and naval targets, based on pulse as well as continuous wave signal analysis. The system emits zero electromagnetic energy making it 'invisible' to adversaries, effectively seeing without being seen.

"All European Union projects aimed at Moldova support the development of their defence capabilities and increase cooperation between us. As the implementer of this project, we are pleased that we can contribute our experience and knowledge in procuring air surveillance and communication systems, armoured vehicles, and various combat vehicles," said Magnus-Valdemar Saar, Director of ECDI.

This project represents a significant milestone in the ongoing efforts of the European Union to support countries in strengthening their defence capabilities.

ERA HAS SIGNED A NEW CONTRACT WITH ROMATSA FOR THE EXTENSION OF ITS WAM SYSTEM TO COVER THE BRASOV AIRPORT AREA

ERA COMPANY WAS AWARDED A CONTRACT FOR THE EXTENSION OF ITS WIDE AREA MULTILATERATION SYSTEM CALLED WAM EAST IN ROMANIA. THE GOAL OF THE PLANNED SYSTEM EXTENSION IS TO PROVIDE SURVEILLANCE COVERAGE OF THE BRAȘOV-GHIMBAV INTERNATIONAL AIRPORT AREA. THE CONTRACT WAS ASSIGNED BY ROMATSA, THE ROMANIAN ANSP.



The WAM project for the Brasov airport in East Romania will add more ground stations of the ERA Multisensor Surveillance System (MSS), combining multilateration and ADS-B technologies, to the already proven WAM System previously deployed there. The main goal achieved by its installation is to improve the surveillance coverage of this area, mainly the Brasov CTR.

Brașov-Ghimbav International Airport is located in Ghimbav, near the city of Brașov in Transylvania. It has been operational since June 2023, which makes it the newest air traffic facility in Romania.

"ROMATSA is one of our VIP customers. Since the beginning of our cooperation in 2011, ERA has installed quite a number of systems in Romania, which together cover almost the entire airspace over the country," stated Ondřej Chlost, ERA CEO.

THE LIST OF ERA SYSTEMS OPERATING IN ROMANIA IS EVER GROWING:

- The first installation was the WAM system for NAPOCA TMA providing coverage of the airspace for three international airports since 2011: Cluj-Napoca, Sibiu and Târgu-Mures.
- Its two extensions in 2013 and 2014 were particularly focused on lower

parts of the Cluj airport surroundings as the Cluj airport is located in a geographically challenging mountainous region.

- The project WAM Rom Sud in southern Romania, put into operations in 2016, has improved the surveillance coverage of Bucharest TMA.
- There is also a surface MLAT system and SQUID vehicle tracking system in use at the Henri Coandă International Airport (former Otopeni) in the capital city Bucharest.
- The last ERA project WAM East, started two years ago, added another region to the almost country-wide multilateration system in Romania.



ERA'S SYSTEM WAM WEST NEAR POZNAN IN POLAND HAS GONE OPERATIONAL

ERA, COOPERATING WITH LOCAL COMPANY GISS, DELIVERED A WIDE AREA MULTILATERATION/ADS-B SYSTEM TO COVER THE AIRSPACE ABOVE THE WESTERN PART OF POLAND, INCLUDING THE TERMINAL MANOEUVRING AREA OF THE POZNAN AIRPORT. THE SYSTEM WILL BE OPERATED BY PANSA (POLISH AIR NAVIGATION SERVICES AGENCY).

“We are thrilled to announce the successful delivery and installation of this cutting-edge system. It has completely met our expectations in terms of coverage and performance. The cooperation between ERA and GISS was smooth, underscoring our commitment to enhancing air navigation services through strategic partnerships and technological advancements. The results speak for themselves, demonstrating superior operational capabilities that will benefit air traffic management in the region.



The implementation of the WAM West system is an important step in PANSA's plan to optimise infrastructure, and will enable decommissioning of two secondary radars” stated Dariusz Jasiński on behalf of PANSA.

The heart of the system is MSS-5, the latest generation of the world-wide recognized and proven Multilateration Multi-sensor Surveillance System by ERA. The system consists of the net of ground stations covering nearly half of the plain land of the Polish territory and the dual Central Processing Station located at the Poznan airport. The WAM West system's sensors have been installed on multiple PANSA sites. The project was finished within the challenging time frame.

“ERA-GISS consortium has provided a turn-key solution together with network equipment, radio and FO links. The service agreement included in the contract shall ensure the proper availability of the system over the following years. We are honoured to be part of another important project in the development of the Polish critical infrastructure,” stated Bartosz Peas, International Sales & BD Director of GISS.

ERA IS ABOUT TO COVER THE AIRSPACE OF LITHUANIA

ERA HAS SIGNED A NEW CONTRACT TO PROVIDE MONITORING OF AIR TRAFFIC OVER THE REPUBLIC OF LITHUANIA AND BEYOND ITS BORDERS WITH THE NEWLY INSTALLED WIDE AREA MULTILATERATION SYSTEM (WAM). LITHUANIA THUS JOINS THE COUNTRIES, WHICH BENEFIT FROM COUNTRYWIDE COVERAGE THANKS TO THE MULTI-SENSOR SURVEILLANCE SYSTEM MSS BY ERA.

ERA was assigned the contract with Oro navigacija, the Lithuanian Air Navigation Service Provider, in April 2024, as a result of a tendering process. The new system WAM Lithuania is designed to cover the entire Lithuanian airspace and therefore solve the secondary surveillance coverage requirements. To meet the challenge, ERA as the primary contractor will deliver the net of ground stations of its newest system MSS5-W, a composite solution based on multilateration and ADS-B technologies.

“This project is one of the highest priorities for Lithuania, in order to reach a new level of quality in air traffic surveillance. We value long-lasting experience of ERA, as well as their expertise in implementing WAM system projects in other countries. The competence of ERA will enable us to develop a high-level air traffic surveillance solution in Lithuania, taking into consideration the specific needs of our country”, stated the CEO of Oro Navigacija Saulius Batavičius.

According to detailed contract specifications, the system will be responsible for providing data for the entire Vilnius FIR (Flight Information Region) and an additional 50 Nautical Miles (NM), which



means covering the entire state's airspace plus the outskirts beyond the Lithuanian border, including part of the Baltic seashore.

The Lithuanian airports Vilnius, Kaunas, Palanga and Šiauliai will also benefit from the accurate coverage provided by the new WAM Lithuania system and will use it to optimize the process of approaching aircraft in their corresponding airspaces.

LIFE OF ERA COMMUNITY IN PHOTOS



ERA welcomed the Minister of the Czech Ministry of Defence Jana Černochová in its headquarters in Pardubice. She appreciated ERA's export success and mainly the fact the company supplies its unique products to the Armed Forces of the Czech Republic.



ERA presented at the DALO Industry Days, organized by the Danish Ministry of Defense Acquisition and Logistics Organisation, in the outskirts of Copenhagen.



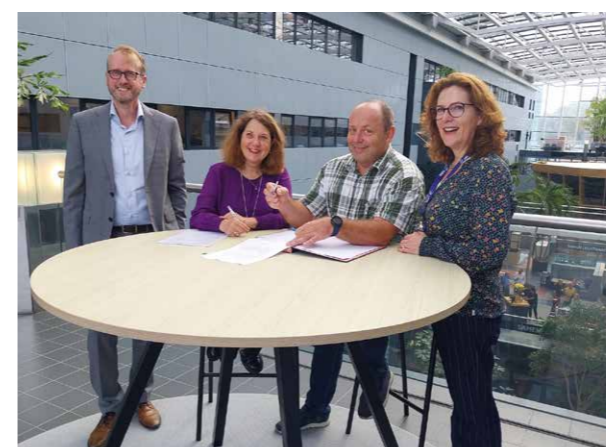
ERA introduced its passive surveillance solutions to the officials of the Armed Forces of the Philippines within its business mission to Manila.



Marek Náhlík, CEO of R-SYS (ERA's Slovak subsidiary), was invited to participate in a panel on drone safety at DroneCon conference.



ERA presented its passive surveillance solutions to the Ministry of Defence and the Armed Forces of Bosnia and Herzegovina in Sarajevo.



R-SYS has signed a long-term contract for provision of services related to aeronautical information with the Dutch air navigation service provider LVNL.

The Embassy of the Czech Republic in Stockholm held a reception to celebrate the Statehood Day on 28 September and ERA representative was among the guests. He took part in productive networking with other distinguished participants, namely Her Excellency Anita Grmelová, the Czech Ambassador to Sweden.



ERA COOPERATES WITH DIEHL DEFENCE ON PASSIVE SURVEILLANCE SYSTEMS AND MULTI-SENSOR TRACKING CAPABILITIES FOR GBAD

ERA HAS SIGNED A MEMORANDUM OF UNDERSTANDING (MOU) WITH THE GERMAN COMPANY DIEHL DEFENCE ON COOPERATION IN THE FIELD OF PASSIVE SURVEILLANCE SYSTEMS AND MULTI-SENSOR TRACKING CAPABILITIES FOR DIEHL'S GROUND-BASED AIR DEFENCE SYSTEMS (GBAD) AS PART OF THE ILA AIRSHOW IN BERLIN, GERMANY, IN JUNE 2024.



Ondřej Chlost, ERA CEO and the Chairman of ERA Board of Directors, Helmut Rauch, CEO of Diehl Defence, Jakub Thomas, Commercial Director of ERA, and Torsten Cook, Senior Vice President Business Unit Ground-Based Air Defence of Diehl Defence, signed the MoU document on the occasion of the ILA Airshow, during a ceremony at the Diehl Defence stand. ERA

personnel were also co-staffing the Diehl Defence display of GBAD systems in the Defence Park on the event premises.

The MoU foresees the intentions of both companies to complement the Diehl Defence GBAD systems, primarily IRIS-T SLM, with ERA's world-leading Passive ESM Tracker (PET). Access to another ERA product, ERIS Multi-Sensor Tracker (MST), will allow for real-time data fusion of data for active and passive systems.

GBAD is one of PET's battle proven cases (two additional being Air Surveillance and Electromagnetic Warfare). Thanks to supremacy in real-time detection, tracking and identification of airborne targets (fast movers, UAVs) in the airborne domain, a passive sensor plays a vital role in complementing active sensors in GBAD, otherwise vulnerable against electronic (EW) countermeasures.

According to the MoU, both companies will assist each other in marketing efforts with multi-sensor-capable and passive-sensor-enabled GBAD systems. The availability of ERA components in the modular IRIS-T SLM architecture will provide customers with additional options for their individual configurations, providing Diehl Defence with a wider market potential. This will be of particular interest to nations, which participate in the European Sky Shield Initiative (ESSI).

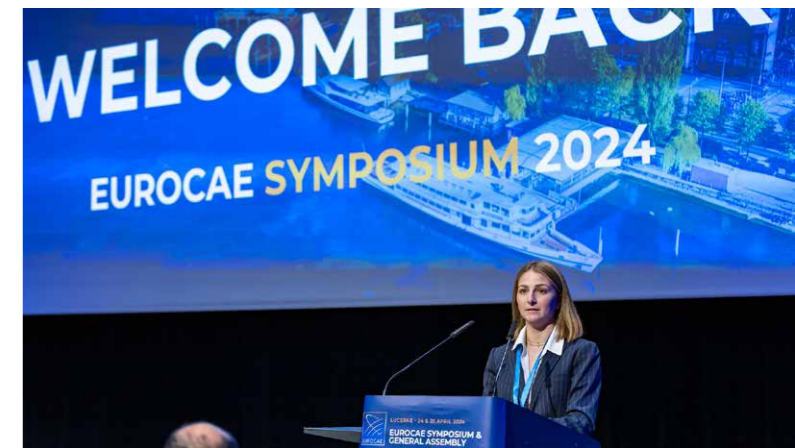


ERA AT THE EUROCAE SUMMIT IN LUCERNE: WE CO-LIVED THE DREAM OF SAFETY

"I have a dream" was a world-changing speech by Rev. Martin Luther King Jr. in 1963. That same year, the aviation community began to fulfill their own dream. This was a dream of safe aviation driven by internationally respected standards. This was the year the Eurocae organization was established in Lucerne, Switzerland. In April, the Eurocae members, including ERA, recalled this ambition at the annual summit held in Lucerne once again.

60+ experts from different domains and countries joined the event in the Culture and Congress Center in central Lucerne to discuss innovation, development and visions for upcoming decades. And ERA, whose dream of establishing multilateralism as one of the technologies for ATC had become reality over the last 30 years, could not miss a chance to join. ERA has been a long-term active member of Eurocae working groups and its regular contributions to new standards (particularly considering MLAT, WAM and ADS-B solutions) supports the safety of worldwide aviation.

The event provided the participants with a comprehensive overview of the recent activities of the European Commission, EASA and SESAR. The creative mix of technicians and decision-makers of dozens of companies and institutions shared their knowledge in six discussion panels and seven flash-talks. Eurocae officials also unveiled the recipients of the esteemed 2024 Awards, who were honored during a spectacular Gala Dinner as part of the symposium. One of them was Roy Posern, chairman of WG-41 – one of the four working groups ERA is involved in. The next Eurocae summit is planned in Madrid the following year.



ERA DEFINES WAM'S FUTURE ONCE AGAIN. EUROCAE WG-51 MEMBERS MET IN BRUSSELS



It has been a long 14 years since the ED-142 – Technical Specification for Wide Area Multilateration (WAM) Systems – was released. Since that time, ERA has delivered dozens of these systems all around the world, gathered a lot of experience about such systems' behavior and implemented many features and improvements, driven by customers' requirements.

ERA has become recently a proud member of the Eurocae WG-51 SG-5 team, which is dedicated to delivering a brand-new version of the WAM standard called ED-142A. The newly set up group had been working for several months online and then gathered for the first "face to face" meeting in Eurocontrol HQ in Brussels, in May. The group progressed significantly in rewriting the draft of an important chapter describing system performance and is optimistic to introduce the above-mentioned standard to the ATM community in the year 2025.

FROM ACTIVE PIONEERS OF PASSIVE SYSTEMS TO A GLOBAL MARKET LEADER

IT ALL STARTED WITH THE THREE MUSKETEERS. THREE ENGINEERS WHO COULD NOT BEAR THE THOUGHT THAT THE ORIGINAL AND UNIQUE TECHNOLOGY OF PASSIVE RADAR WOULD CEASE TO BE DEVELOPED IN CZECHIA. THEIR LEGACY HAS NOW BEEN DEVELOPED FOR 30 YEARS BY 400 EMPLOYEES IN ERA, A COMPANY, MANUFACTURING PRODUCTS, WHICH ARE PART OF THE CZECH FAMILY SILVER.

GOING BACK IN TIME

It is the mid-1990s, Pardubice, CR. Tesla, one of the largest electrical engineering companies in the country, has gone bankrupt in a wild privatization after the communist regime collapsed. Its former employees pick up the flag of radar technology development and production and continue working in several successor private companies. However, the most interesting know-how – the knowledge of passive surveillance systems – was transferred to ERA by its three founding fathers. Thanks to them passive radiolocation has survived and is conquering the world: systems by ERA operate in ATC/ATM field at 160 locations in 70 countries on 5 continents. ERA's share of the world market exceeds fifty percent."

The technology of passive radiolocation, in today's European professional terminology called multilateration, was developed in former Czechoslovakia in the 60s. The actual systems, which include Kopáč, Ramona and the legendary Tamara, were produced in Pardubice by Tesla and first used by the Czechoslovak Army. The newly founded company came up with the 4th and 5th generations of the Vera system, now sold worldwide as VERA-NG.

SMALL, POWERFUL, COST-EFFECTIVE SYSTEM ASSISTING ATM

However, the term passive radar is slightly misleading – passive trackers are not radars in the classical sense of the word because they do not transmit anything. On the contrary, they are silent, they do not send any signals into the ether and are thus invisible from the radiotechnical point of view. Passive or else multilateration systems calculate the position of targets based on a mathematical calculation of the different arrival of signals in the network in the space of deployed stations (so called TDOA principle – Time Difference of Arrival). They do not need to transmit a beam and receive its reflection back like radar.

Such stations create a net and can be much smaller, maintenance-free, powered by wind or the sun, and located in seclude, remote and difficult-to-reach locations. There is no need for painting, lubrication, or cooling, they can fit anywhere when installed, and the transport is easy. That means the cost-performance value ratio is great. Are you interested? Yes! All it took was one "little thing" – convincing customers that it works. Convincing the business community in the West that a small post-communist country had invented something they did not have. And eventually that was achieved.



AIR SAFETY IS IMPROVING. ALSO THANKS TO ERA

Nowadays, multilateration systems are part of the technological equipment for ensuring safety at 70 airports worldwide, including 20 of the 50 largest airports in terms of passenger numbers. The systems determine the identification, position and trajectory of aircraft or vehicles, thus preventing collisions both in the air and on the ground, and they increase airport throughput, enabling more frequent departures and arrivals. They are also able to track the path of aircraft between destinations and, by pinpointing the position of the plane, more aircraft can fit above each other in the various levels of the flight corridors – which in turn alleviates airspace congestion.

ERA systems track half of all flights that take place around the world every day. Thanks to them, passengers' journeys around the world are safer and more flexible. It is no exaggeration to say that currently we are experiencing a great renaissance of passive surveillance systems, and that they have a promising future ahead of them.

ERA HAS OBTAINED TWO REMARKABLE BIRTHDAY PRESENTS AS PART OF THE AIRSPACE WORLD EXHIBITION



THE MOST IMPORTANT ATM EXHIBITION OF 2024, AIRSPACE WORLD (ASW), WAS HELD IN MARCH IN GENEVA, SWITZERLAND, AND WAS ONE BIG BLAST FOR ERA.



First of all, ERA proudly celebrated its 30th birthday along with R-SYS, ERA's Slovak subsidiary, which has been in existence for 15 years now. There were pink cakes, a standing ovation, a cheerful celebration and happy birthday wishes from: ERA CEO Ondřej Chlost, R-SYS CEO Marek Náhlik, Jan Klas, the director

of Czech ANSP – ERA's oldest business partner, and Jose Luis Rodriguez Castro, a representative of ENAIRE, ERA's first foreign customer

ERA treated itself with two great birthday presents: The very morning of the first day there was a pleasant surprise involving the assignment of a new contract to extend the ERA WAM surveillance system serving Brasov International Airport with the officials of ROMATSA, the Romanian ANSP. (Read more on page 3.) And on the third day, ERA met with representatives of DFS, the German ANSP, to announce the award of a contract for delivering WAM surveillance to monitor the airspace of the Hamburg region.

ERA has also become part of the media coverage of ASW: ERA's mission at ASW was described by its Commercial Director in an interview for the magazine Air Traffic Technology International and within the woxpop stand-up held by a reporter from the International Airport Review.

Last but not least, the ERA Product Manager delivered a highlight of the exhibition's program with his public presentation in the Indra Theatre entitled "ERA 30 Years of Multilateration – from Market Definition to 160 Installations".

ERA INTRODUCED ITS PASSIVE SURVEILLANCE SOLUTIONS TO THE BLACK SEA REGION

ERA PRESENTED ITS PASSIVE SYSTEMS VERA-NG AND PLESS WITHIN THE BSDA (BLACK SEA DEFENCE, AEROSPACE AND SECURITY), INTERNATIONAL EXHIBITION, HELD IN BUCHAREST, ROMANIA, IN MAY.

ERA representatives introduced the military solutions Passive ESM Tracker VERA-NG and the Over the Horizon Direction Finding system PLESS, focused on their use cases for Air Surveillance, Air Defence and Electronic Warfare. As part of a series of meetings at the ERA booth, they described their benefits to potential customers from the Black Sea region.

The exhibition started with the opening ceremony by the Romanian Minister of National Defence Angel Tîlvăr and the Romanian Chief of Defence General Gheorghită Vlad. ERA was honored to welcome Her Excellence Halka Kaiserová, the Czech Ambassador to Romania, and Her Excellence Aune Kotli, the Estonian Ambassador in Bucharest.

The ERA Director of Sales also met with General László Tömböl, the Hungarian National Armament Director, and representatives of HENSOLDT, an ERA business partner from Germany.



ERA exhibited at a joint stand with other remarkable companies of the Czech defence industry, such as Colt, Vzduchotechnika, Honeywell and Glomex as part of the official Czech presentation, organized by CzechTrade.

ERA PRESENTED ITS BRAND-NEW SYSTEM PLESS WITHIN EW LIVE 2024 IN ESTONIA

The Czech company ERA has participated in the Electronic Warfare exercise EW Live 2024, held at Tartu Airport in Estonia, with its passive surveillance and reconnaissance systems. ERA considers EW LIVE a truly special and very important event for the EW community and was proud to contribute with several highlights – its unique passive sensors and SW tools, namely:

PLESS: Passive Long-range ESM Surveillance system, an Over-the-Horizon (OTH) Direction Finder (DF), intended for electromagnetic signal detection hundreds of kilometres from the emitter.

VERA-NG: an iconic Passive ESM Tracker (PET) VERA-NG, broadly recognised by the EW community worldwide

ERA information systems and tools for Electro Magnetic Spectrum Operations.

“We say: “Seeing is believing”, when presenting and demonstrating our unique Passive Surveillance Systems, and therefore we are thrilled to be at EW LIVE with our land-based sensors (PLESS, VERA-NG) as well as ERA information systems and tools for EW/ EMSO. Fulfilling this motto, we will be showcasing them all during dedicated classroom sessions,” stated Jakub Thomas, ERA Commercial Director.

A number of ERA professionals has become part of the trial providing detailed and descriptive presentation of the PLESS OTH

DF system developed by ERA. PLESS can detect, locate, identify and track air, land and naval targets with a focus on slow-moving or stationary platforms. Thanks to the utilization of tropospheric reflectivity properties, the PLESS system can see targets located even beyond the radio horizon. Using the unique passive detection technology by ERA, it provides a covert mode of operation, ideal for long-term cross-border and maritime surveillance.

Apart from the novelty, ERA exhibits its well-known and original Czech technology of Passive ESM Tracker VERA-NG. The system provides detection, localization, tracking and identification of airborne, ground and naval targets using a pulse signal as well as continuous wave signal analysis. Its latest version, called DPET (Deployable Passive ESM Tracker) is the deployable version of the VERA-NG system, developed and designed to fit the specific needs of the Czech Armed Forces. VERA-NG has also been deployed in many NATO and allied militaries.

Last but not least, the participants are able to become familiar with ERA information systems and tools for EW and EMSO including EW-EDMT – data mining tool for management of ESM databases, and EW-SIM – advanced training tool for analysing real signals serving as a ESM/ELINT simulator.



ERA EXPLAINED ITS DEFENCE PORTFOLIO TO PARTICIPANTS OF ADAS EXHIBITION IN MANILA

As a follow up to two previous fruitful meetings between ERA team and Philippines officials in Prague and Manila, ERA participated in the exhibition and conference ADAS 2024 (Asian Defence and Security), held in Manila, in September. ADAS brought about 200 exhibitors in 15 country pavilions, 200 foreign delegations and 15000+ visitors.

ERA representatives of Sales Department met several high ranked officials of the Armed Forces of the Philippines within the event, namely: Vice Admiral Toribio D. Adaci Jr., Brigadier General Ronnie D. Petinglay, and Lieutenant General Roy Mabagos Galido, Commanding General of the Philippine Army.

They showed vivid interest in ERA surveillance solutions: battle-proven tracker VERA-NG and „newborn to the passive family”, OTH system PLESS. ERA team also provided an example of their utilization: the simulated wide-area coverage of the Philippines’ airspace.



ERA RETURNED TO DEFENCE EXHIBITION EUROSATORY IN PARIS



ERA took part in the Eurosatory defence and security exhibition, held at the international exhibition and conference center in Paris, in June. ERA exhibited its military solutions as part of the joint exhibiting stand of the Czech official delegation, along with other defence field companies, including the sister company MESIT of the OMNIPOL group.

ERA presented the last generation of PET system VERA-NG and the brand-new system for long distance surveillance PLESS to various delegations from the Czech Embassy, Ministry of Defence, Ministry of Industry and Trade, and the Ministry of Foreign Affairs.

ERA currently witnesses expanded uses for its VERA-NG passive surveillance system beyond traditional EW functions, evolving to surveillance missions and utilization in ground-based air defence (GBAD) networks.

ERA WELCOMED THE PRESIDENT OF BULGARIA AT HEMUS IN PLOVDIV

ERA has been presenting along with AERO Vodochody at the BEST of the Czech aviation industry at the HEMUS defence trade fair in Plovdiv, Bulgaria, in June.

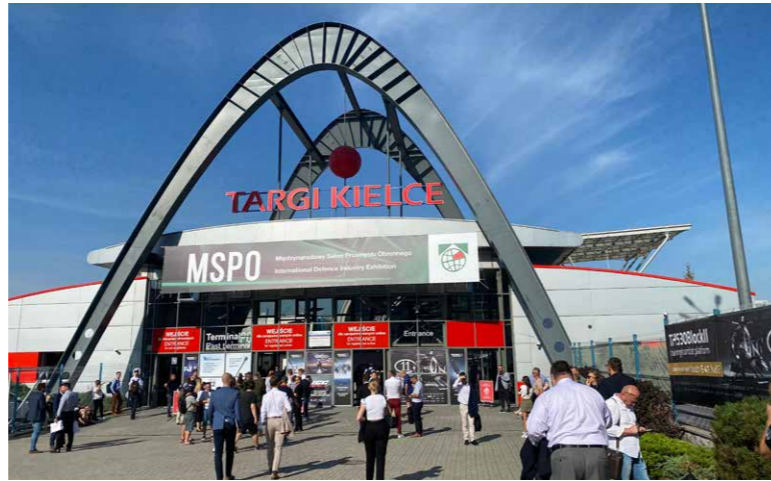
Among other VIPs, the President of the Republic of Bulgaria Rumen Radev paid a visit to the Czech stand on the second day. He led an animated discussion with the attending experts of ERA and AERO about the possibilities of the defence systems and the technologies they develop, such as VERA-NG and L-39NG.

HEMUS is Bulgaria’s largest and most important exhibition and over its 29 years long history has offered many opportunities for business in this region. It brings together the armed forces, defence industry manufacturers and scientific institutions. It focuses on defence and security solutions, anti-terrorism and cyber security.



ERA ATTENDED MSPO, A KEY EVENT FOR DEFENCE INDUSTRY IN CENTRAL EUROPE

ERA EXHIBITED ITS PASSIVE SURVEILLANCE SOLUTIONS AT MSPO KIELCE, 32ND INTERNATIONAL DEFENCE INDUSTRY EXHIBITION IN POLAND. THE MAJOR TRADE FAIR OF DEFENCE AND SECURITY TECHNOLOGIES IN CENTRAL EUROPE TOOK PLACE AT TARGI KIELCE EXHIBITION & CONGRESS CENTRE, IN POLISH CITY KIELCE, ON SEPTEMBER 3 – 6, 2024. ERA PARTICIPATED IN COOPERATION WITH ITS TRUSTED PARTNER, POLISH COMPANY GISS.



The Chief of the General Staff of the Polish Armed Forces Wiesław Kukuła paid a visit to GISS – ERA joined stand, where both partner companies have been exhibiting their latest innovations. ERA introduced the passive surveillance solutions for modern air defence and EW concept, and GISS presented satellite and tactical communications, ballistics, and air traffic management systems.

ERA team was focusing on the ERA unique systems for passive surveillance and reconnaissance of airborne, naval and ground-based targets, and presented them to a number of visitors: army officials, business partners and journalists.

MSPO (Międzynarodowy Salon Przemysłu Obronnego – International Salon for Defense Industry) Kielce offers four days of expositions of military technologies and opportunities for business meetings. MSPO has had a long tradition and its significance strengthens rapidly within last years along with growing number of participants.



Jakub Thomas, ERA Commercial Director, had an interview for CZ Defence magazine explaining ERA defence product portfolio: its sensors VERA-NG and PLESS and the SW family of information systems.

SHOWCASING ALL AT THE JAPAN AEROSPACE IN TOKYO

ERA participated in the prestigious Japan International Aerospace Exhibition in the Japanese capital, Tokyo. The company's Sales manager Jiří Vaňourek presented the advanced passive surveillance systems VERA-NG and PLESS and their



suitability for the Japanese Self-Defense Forces, as well as the MSS-5 civil multilateration system for air traffic control.

ERA exhibited together with other Czech companies. The booth of the Czech delegation was visited by Director general Marian Piecha from the Ministry of Industry and Trade and His Excellency Martin Klučar, Ambassador of the Czech Republic to Japan.

ERA has been recognized in Japan for its ATM technologies, its systems have successfully assisted air traffic safety at Narita Airport in Tokyo, Chubu Airport in Nagoya, Ookayama and Osaka; an example of a country-wide solution is the system installed on the island of Hokkaido.

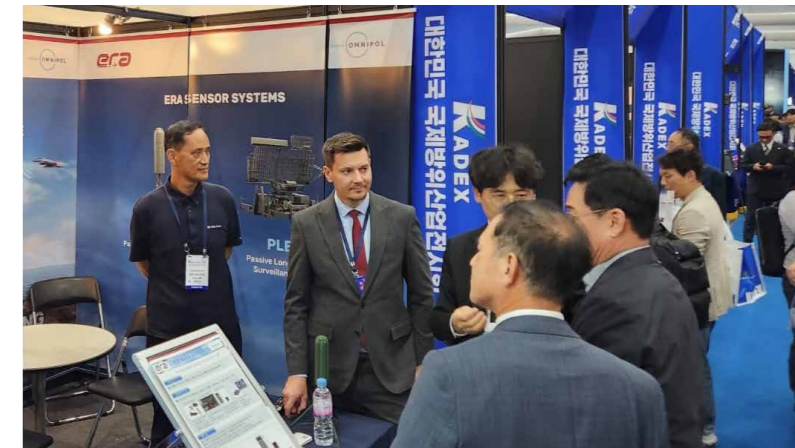
ERA's participation in this important exhibition in the Far East region confirms its commitment to provide innovative and reliable solutions in the field of both, defense and civil technologies.

ERA EMPHASIZED ITS SYSTEMS AT TRADE FAIR KADEX IN SEOUL

ERA Sales expert for Southeast Asia attended the Korea Army International Defence Industry Exhibition KADEX 2024, held at Gyeryongdae, Seoul, South Korea, in October. He presented the VERA-NG passive ESM tracker as a solution, which is able to covertly detect and track air, ground and sea targets, and provides strategic electronic intelligence (ELINT).

He succeeded to communicate this message to key decision-makers in the ROK Army, Air Force, and Navy, and explained, how VERA-NG's real-time UAS tracking and non-cooperative target identification capabilities could meet their strategic needs. The exhibition thus provided an opportunity for military personnel and defence industry experts to see the latest passive surveillance technology firsthand.

His Excellency Ivan Jančárek, the Ambassador of the Czech Republic in the Republic of Korea, visited the exhibition and meet ERA representative at ERA stand. „Supporting Czech companies



in defence industry in their search for opportunities in the Korean market is one of the priorities of our office,” Jančárek stated.

ERA SHONE AT THE DEFENCE SERVICES ASIA (DSA) EXHIBITION IN MALAYSIA

ERA made an appearance at the Defence Services Asia (DSA) exhibition in Kuala Lumpur, Malaysia. This biennial showcase, DSA and NATSEC Asia 2024, took place from May 6 to 9, transforming the city into a hub of global defense innovation. Ondřej Jebálek from ERA's Sales Department engaged in significant discussions with top-tier officials of the Malaysian Armed Forces. He met with the Minister of Defense of Malaysia, YB Dato' Seri Mohamed Khaled Bin Nordin; the Chief of the Army, General Tan Sri



Dato' Muhammad Hafizuddeain Jantan; the Director General of the Army Research and Evaluation Division, Brigadier General Dato' HJ Sharizan, and the Director of Artillery, Brigadier General Norazman bin Ismail. The invitation extended to Mr. Khaled Nordin to visit ERA's headquarters in Pardubice, signalling deeper future collaboration, was a notable moment.

ERA TOOK ACTION AT AOC EUROPE IN OSLO



ERA exhibited its unique systems in Electronic Warfare field at AOC Europe conference in Oslo, Norway. The focus is on the passive ESM (Electronic Support Measure) OTH (Over The Horizon) system PLESS, which not only has established a new long-range surveillance sensor category, but also complements the well-known Passive ESM Tracker (PET) VERA-NG to provide the best possible data of targets' location in the area of interest. Both systems use advanced techniques to conduct cross-border long-term and long-range surveillance without alerting neighboring nations.

The ERA representatives in situ from the Sales, Strategy and EWOS departments met with industry influencers, military officials and government bodies to make new acquaintances and deepen the relations ERA has already established among EW specialists.

ERA attends the AOC conferences regularly: it already participated in Bonn, Montpellier and Liverpool.

ERA IN NEWS

КОМПАНИЯ ERA ПРОДЕМОНСТРИРОВАЛА СВОИ ЛУЧШИЕ РАЗРАБОТКИ В ОБЛАСТИ НАЗЕМНЫХ ПАСИВНЫХ СИСТЕМ НАБЛЮДЕНИЯ НА ВЫСТАВКЕ EW LIVE В ТАРТУ, ЭСТОНИЯ



30.09.2024

Варшава для печати

Миссия компании ERA приняла участие в выставке по радиоэлектронной борьбе EW LIVE 2024, которая проходит в аэропорту Тарту в Эстонии, представив свои пассивные системы наблюдения и обнаружения ERA. Выставка EW LIVE демонстрирует возможности и новые технологии в области радиоэлектронной борьбы (РЭБ) и пассивного наблюдения. ERA представила несколько ярких моментов — свои уникальные пассивные системы наблюдения EW и PLESS. Пассивная система дальнего радиолокационного наблюдения, законченный (ЭПР) и GIBAD, которая предназначена для обнаружения электронных сигналов на расстоянии сотен километров от источника.



The system emits zero electromagnetic energy making it invisible to adversaries.

The VERA-NG battle-proven use cases are as follows:

Air Surveillance
A passive sensor (Passive ESM Tracker) can complement traditional active radar networks thanks to standardized data output ASTERIX and AWACS, which can be easily integrated into any Command and Control points in its deployable version. It can also be used within NATO's deployable air surveillance and control unit (DAAC).

Ground-Based Air Defense (GBAD)
Thanks to accuracy in real-time detection and identification of airborne targets (fast mount, JAW), in the airborne domain a passive sensor plays a vital role in completing active sensors in GBAD otherwise vulnerable in electronic warfare.

Electronic Warfare
The surveillance system based on TODA is much more accurate in providing valuable data compared to traditional ground-based EW/ESM systems. In the role of Electronic Warfare, VERA-NG tremendously contributes to Electronic Spectrum Operations (ESOPS).

The ODET system consists of one central receiving and processing station, three side receiving stations and an operator's workplace. The antennas are placed on collaborative mounts built in the ISO-H container. As in all the mobile versions, the entire system is suspended on the platforms of containerized trucks as an integral part of the delivery.

All these above-described advantages can make a significant difference in the outcome of any battery/airborne mission involving the need for early warning and detailed target identification which could be game-changing aspects to support fast decision-making in operations.

ERA (a member of the OMNIPOL group) is a leading company in multilateration, multistatic surveillance, and reconnaissance technology. ERA has brought to the world a novel passive medium range surveillance sensor category called Passive ESM Tracker (PET) for defence and electronic warfare purposes, which is currently in its 5th generation known as VERA-NG - tailored for air, maritime and land target surveillance and reconnaissance.

The company heritage and global core experience in passive ESM/ELINT helped ERA bring another category of Over the Horizon Direction Finding (OTH DF) long-range sensor, in its second generation called PLESS.

The above-mentioned sensors allow a broad ecosystem to grow consisting of sensors, performance prediction and evaluation tools, and data mining tools together with a full virtual EW scene of simulator to help military intelligence.

ERA made air traffic control history when deploying the first multilateration system and introducing gate-to-gate surveillance. Over the last three decades, ERA has received a number of more than 160 installations, deployed in over 70 countries on five continents with 24/7 operations fulfilling demanding customer requirements.

More important, however, than the given number of references is the experience ERA achieved and lessons learnt during the implementation of our solutions. The company intends to continue introducing new technologies to adapt to tomorrow's challenges.



16th September 2024

NEWS

ERA has announced that it had been awarded a contract to deliver two wide-area surveillance systems monitoring air traffic over the Republic of Albania. ERA is proud to add Albania as the 60th country to the list of its partners using ERA technology.

ERA will supply two Wide Area Multilateration systems (WAM) consisting of two connected networks of ground



FROM PIONEERS OF PASSIVE SYSTEMS TO A GLOBAL MARKET LEADER

A passion for passive radar systems drove its early development and currently the same commitment ensuring the technology's usefulness in today's air traffic sector

Leaska Reichow, ERA communication manager

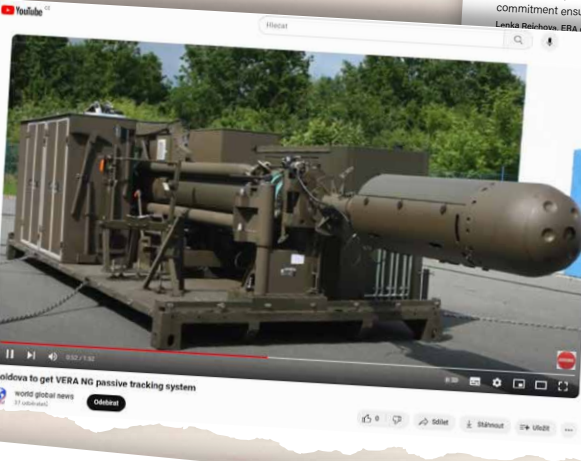
ERA's system WAM West in Poland has gone operational

Company ERA Company
Date 10.10.2024



ERA company (a member of OMNIPOL group) celebrated the closure of its latest project in Poland, called WAM West. ERA, cooperating in consortium with the ATC Branch of the local company GISS, delivered a Wide Area Multilateration/ADS-B system to cover the airspace in the western part of Poland, including the Terminal Manoeuvring Area of the Poznan airport. The system will be operated by Polish Air Navigation Services Agency (PANSK).

"We are thrilled to announce the successful delivery, installation and implementation of the Wide Area Multilateration (WAM) system for West Poland, a collaborative endeavour between Czech company ERA and its Polish partner GISS. This cutting-edge system has completely met our expectations in terms of performance. The cooperation between ERA and GISS was smooth, underscoring our commitment to enhancing air navigation services in Europe. The successful implementation of this project is a testament to our technological capabilities and the strong partnership between ERA and GISS. The results speak for themselves, demonstrating superior operational capabilities that will be an important step in ensuring the safety and efficiency of air traffic operations in the region."



of the largest electrical engineering companies in the country, has gone bankrupt. In a wild privatization, its former employees pick up the flag of radar technology development and production, deciding to continue to work its secret success private companies.

However, the most interesting know-how for the development of passive surveillance systems - was transferred to ERA by its founding fathers, Arminius Sotona of the now-defuncted techno-visionary company Rada, Adrian Bordean and Vladimir Kubicak of Alfa joined forces and founded a completely new company, which they named with an acronym consisting of E-R-A. Since everybody knows there were more than three founders, many civilian and military professionals began their work to create and develop the underappreciated technology.

The technology of passive multilateration, in today's European Professional terminology called multilateration, was developed in former Czechoslovakia based Vlastimil Pech and his colleagues at the Military Research Institute in Brno.

The actual systems, which include Kogal, Ramona and the legendary Temara, were produced in Pardubice by Trala and first founded company came up with the 4th and 5th generations of the Vera system, now sold worldwide as VERA-NG. However, this gets name - multi Ramona and Temara, both abbreviations - was inspired by a real life

ABOUT ERA:

ERA (a member of OMNIPOL group) is a leading company in multilateration, multistatic surveillance, and reconnaissance technology. Unrivalled experience in passive surveillance sensor development provides ERA with unique know-how to deliver comprehensive solutions for global markets. We develop, manufacture and implement mission-critical systems for military and civil purposes.

ERA made air traffic control history when deploying the first multilateration system and introducing gate-to-gate surveillance. ERA has brought to the world a novel passive medium range surveillance sensor category called Passive ESM Tracker (PET) for defence and electronic warfare purposes - which is today in its 5th generation known as VERA-NG - tailored for air, maritime and land target surveillance and reconnaissance. The company heritage and global experience in passive ESM/ELINT helped ERA introduce

another category of the Over the Horizon Direction Finding (OTH DF) long-range sensor, in its 2nd generation known as PLESS.

The above-mentioned sensors make possible a broad ecosystem consisting of sensor performance prediction and evaluation tools and data mining tools together with a full virtual EW scene simulator to help military intelligence.

Over the last 3 decades, ERA has reached a number of more than 160 installations, deployed in over 70 countries on 5 continents with 24/7 operations fulfilling demanding customer requirements. More important, however, than the given number of references is the experience we have achieved and lessons learnt during implementation of our solutions. We intend to continue introducing new technologies to adapt to tomorrow's challenges.