



ELECTRONIC WARFARE LIVE

29 – 30 September 2021 | Tartu, Estonia
www.electronic-warfare-live.com



LIVE DEMONSTRATIONS • EXHIBITION • FOCUSED AUDIENCE WORKSHOPS

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world report

REPORT FROM EW LIVE REAL-WORLD TECHNOLOGY DEMONSTRATION

Undeterred by real-world weather conditions, the "2019 EW Live" electronic warfare (EW) equipment exhibition and live demonstration event was held from April 9-11, in Tartu, Estonia. Estonia is directly south of Finland (across the Gulf of Finland); with the Vainameri (Baltic) Sea bordering it to the west, Latvia to the south, and Russia to the east. So, while it may not be one of the most generally-familiar countries in the world, in terms of its location in the new Eastern Europe, it's definitely in a strategic location.

Relative to this, and pointing out Estonia's position as one of the world's most digitally-advanced societies, and in particular, its focus on the rapid development of its IT and cyber sector, Major General Indrek Siel, Deputy Commander, Estonian Defence Forces, opened EW Live exhibition, noting that, the opening of the Cyber Security Exercises and Training Centre CR14 and the NATO Cyber Range Capability, was held the previous day in Tallinn, Estonia, the country's capital. "The digital world doesn't recognize national borders," he stated, "and it's very important that we share our knowledge and experience, and that we merge them together, so that we are stronger when it comes to confronting future threats."

The 2019 EW Live event built upon the experience and success of the inaugural event, which was held in the fall of 2017 in Tartu. Sponsored by the Republic

threat context to current and new types of EW operational equipment."

Unlike most industry trade events, EW Live is organized around "teleconferences" of attendees representing individual countries. This year, there were more than 280 attendees representing 23 countries and organizations, including (in no particular order) Estonia, Turkey, Latvia, Hungary, Singapore, Poland, Indonesia, Croatia, Czech Republic, France, Italy, Switzerland, Germany, Spain, Algeria, Morocco, South Africa, Bahrain, Saudi Arabia, Lithuania, Finland, Norway, Sweden, Taiwan, the USA, Canada, the UAE, the UK and NATO. JED was the official media partner and attended classroom and field demonstrations as a mixed-delegation representing the AOC.

The event was held at the Tartu Air-Port with the industry exhibition stands in the facility's main hangar, while the live demonstrations were set up in the area outside the hangar, in classroom space provided by the co-located Estonian Aviation Academy, and at remote tented and heated areas sited within the boundaries of the Tartu airfield.

In addition, a highlight of this year's event included two days of live counter-drone technology demonstrations. Due to concerns over openly radiating jamming signals aimed at the drone's WiFi control links and GPS receivers, these were held at the Estonian MOD Defence League's Utsali Shooting Range in Kirma, Estonia (approximately 20 minutes from

Novator Solutions, Patria, Proctec, Plath, Rohde & Schwarz, Saab Grintek Defence, Sagax Communications, Seso-fusion, Tehnotut-7, Raadionidekeskus, Teledyne Defence & Space, and Teatrom Systems Electronic Systems.

Speaking at the welcoming reception hosted at the Estonian National Museum on the evening of the first day of the show, Mr. Kauri Salm, National Armaments Director, Director of Defence Investments Department, Estonian Ministry of Defence, stated that the event "provides a live electromagnetic environment where EW subject matter experts have the opportunity to personally witness and test the best electronic warfare products and equipment currently available on the market, including new counter-UAS technology, based on real-life scenarios. It emphasizes to the international EW community the importance of the sharing electronic spectrum knowledge and operational experience in the context of the 21st century battlefield, and allows us all to meet with experts in their field to further our collective knowledge." - J. Royston

MBDA UNVEILS SPEAR-EW STAND-IN JAMMER

The UK arm of European missile manufacturer MBDA (Stoverage, UK) has revealed the ongoing development of an air-launched stand-in jamming/electronic warfare (EW) decoy variant of its SPEAR stand-off miniature precision-strike missile.

Designed to meet the UK's Selective Precision Effects At Range Capability 3 (SPEAR Cap 3) requirement, the SPEAR weapon system is being developed under a four-year, £411 million contract awarded by the Ministry of Defence in March 2016. SPEAR Cap 3 calls for an in-





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EW LIVE 2017 / 2019 EVENTS COMPARISON

	EW & CYBER LIVE 2017	EW LIVE & CD 2019
Number of Attendees	243	266
Number of Participating Organisations	83	90
Delegation Countries Represented	20	23
Field Equipment Demos	8	12
Classroom Equipment Demos	4	9
Total Number of Demos Delivered	100	240



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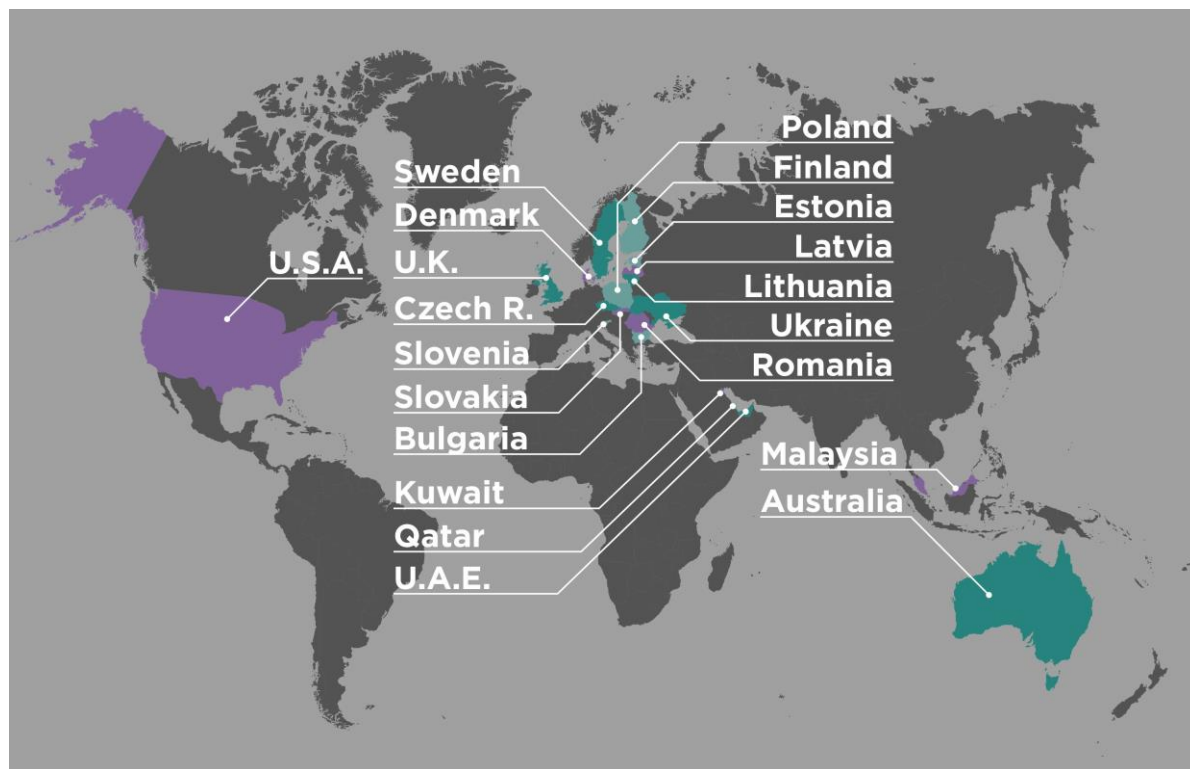
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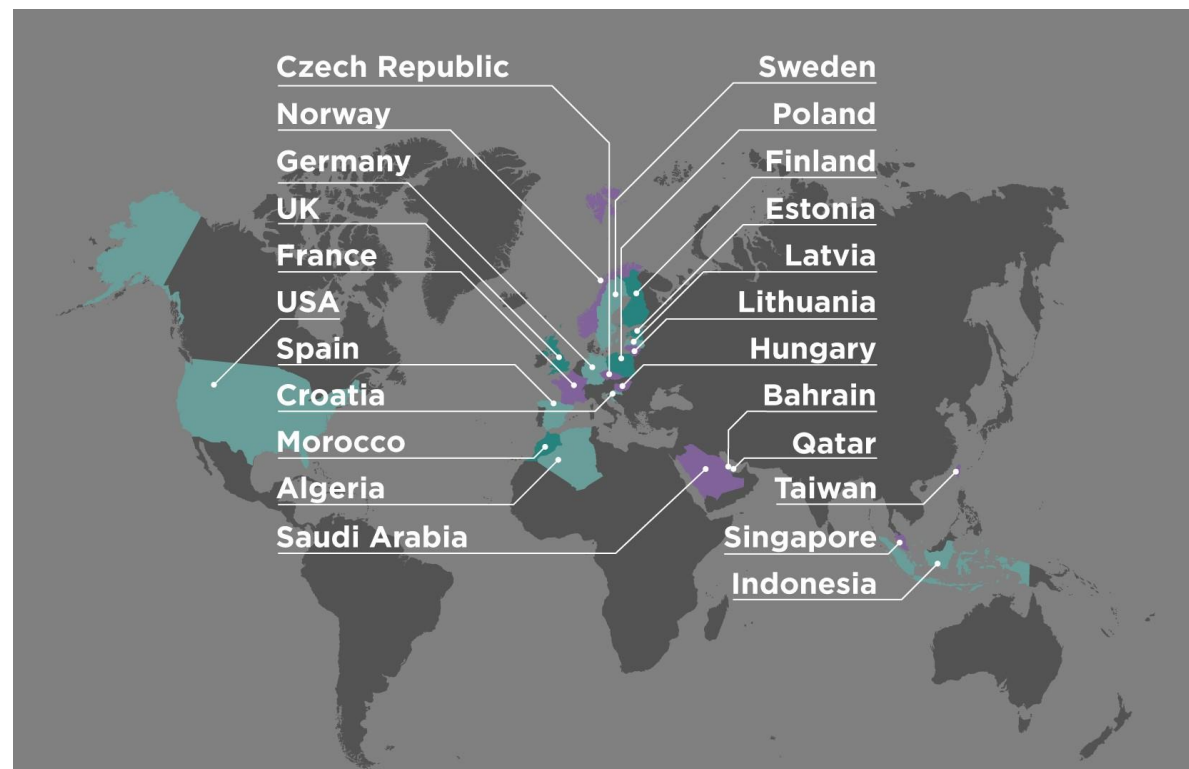
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INTERNATIONAL DELEGATIONS ATTENDING EW LIVE

EW & CYBER LIVE 2017



EW & COUNTER DRONE LIVE 2019





NOTABLE DELEGATIONS 2019

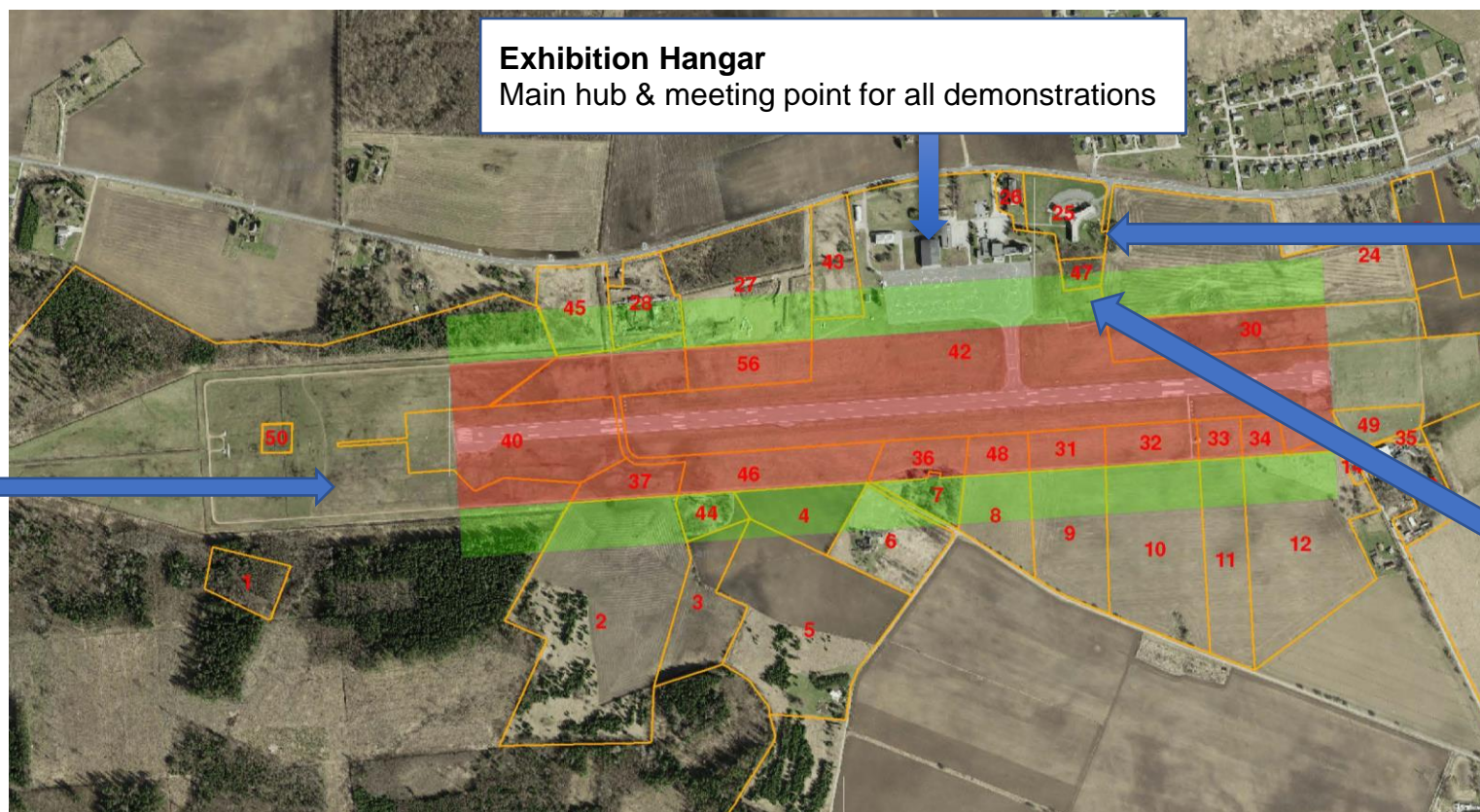
- Chief Defence Industry Officer, Ministry of Defence, Estonia
- EW Systems Engineer, Finnish Joint Systems Centre, Finland
- Colonel/Deputy Director, National Chung-Shan Institute of Science & Technology, Taiwan
- Electronic Warfare Senior Officer, Lithuanian Armed Forces Defence Staff, Lithuania
- Electronic Warfare Senior Officer, Ministry of Defence, Morocco
- COMINT Coordinator of Signals Analysis Teams, Ministry of Defence, Spain
- Frequency Management Specialist, Estonian Defence Forces
- Group Head, Singapore Air Force, Singapore

- EW Specialist, Royal Saudi Naval Forces, Saudi Arabia
- Chief Specialist, Police and Border Guard, Estonia
- Colonel, Head of Electronic Recognition Section of Electronic Warfare Bureau, Algeria
- Head of Development Section/Military Intelligence Regiment, Croatian Armed Forces, Croatia
- EW Specialist, British Army, UK
- Head of Division of System Development Data & Information Center, Ministry of Defence, Indonesia
- ELINT Specialist, Estonian Air Force

- General, Head of Cyber Defence & Security System Control Service, Algeria
- Chief EW & SIGINT Branch, General Command of the Polish Armed Forces, Poland
- EW Specialist Major, COMRENS (Intelligence Brigade), France
- Chief IMINT Section, Hungarian Defence Force, Hungary
- Head of Frequency Management Branch, Latvian NAF JHQ, Latvia
- Lieutenant Colonel - OF4 / Section Head Cyber Security, Norwegian Joint Headquarters, Norway
- ISR Department / Staff Officer, Czech Republic Forces, Czech Republic



ELECTRONIC WARFARE LIVE 2021 DEMONSTRATIONS MAP



Field Demonstrations

- Rhode & Schwarz
- Plath
- Roke
- L3 TRL
- Kirintec

Exhibition Hangar

Main hub & meeting point for all demonstrations

Classroom Demonstrations

- Rhode & Schwarz
- Patria
- Novator
- CRFS
- VIAVI Solutions

Apron Demonstrations

- Tehnoturg-T
- Raadiosidekeskus
- AP Flyers
- Thales
- Rhode & Schwarz
- Robin Radar
- Rantelon
- Marduk Technologies OU



APRON / FIELD DEMONSTRATIONS 2021

Field/Apron Demonstrations x 9	
Rohde & Schwarz ELINT collection and analysis system	Rohde & Schwarz Mobile radio analysis
L3 TRL ELINT - Broadshield	Plath COMINT
Roke COMINT – Resolve full capability	Tehnoturg-T Raadiosidekeskus Counter drone
AP Flyers Drone detection	Thales
Kirintec Security technology solutions	Robin Radar Counter drone
Marduk Technologies OU Counter drone	Rantelon Counter drone

Highlighted green = new for 2021

Highlighted in orange = pending companies



CLASSROOM DEMONSTRATIONS 2021

Classroom Demonstrations x 9	
CRFS EW Centre - Simulation Tracking	Rohde & Schwarz Signal intelligence
Patria Tracking field demos	Rohde & Schwarz COMINT
VIAMI Solutions Signal generation	Novtor Solutions/National Instruments Channelization, Record and Playback & Threat Emulation
Inzpire Ltd Exhibition only	PROCITEC GmbH Exhibition only
Comms Audit	COMINT Consulting Exhibition only
Hawkeye 360	Sagax

Highlighted green = new for 2021

Highlighted in orange = pending companies



Testimonials From EW LIVE Participants

"EW Estonia is by far and away the most productive EW event we have attended in many years – there have been numerous leads created from the event and for us the live approach is the best way to go. Being able to prove the capability in a live environment both brought customers closer but also showed them that in sometimes difficult operating environments the system will perform and give good results and from an operational perspective show the customers the actual form factor of the system and how it can be deployed"

Chemring Technology Solutions

"Just want to say Congratulations on a great event last week. I really enjoyed my time in Tartu - you provided a great venue & atmosphere for all the demos & I'm sure the exhibitors & delegates were very happy! I hope you get a chance for a bit of a rest now after all your hard work!"

AOC

"Thanks the outstanding support throughout the EW Live show. My personal opinion is that the logistical support and the quality of the customers was an order of magnitude better than 2017. We were very pleased."

Rohde and Schwarz

"A very well organised and executed event. The ability to see EW demonstrated Live in all capacities is a game changer. The Estonian government should be thanked for allowing these demonstrations to take place and for hosting so well. Overall a very worthwhile event which brings the technology to life in front of you."

Saudi Arabia Delegation

"EW Live 2019 in Tartu Estonia was a great event for us. Congratulations to the Tangent Link team and Estonian MOD for working to put this together. This is the first event we've attended where we've been able to operate live sensors and countermeasures in front of such a large and diverse military audience. We will definitely plan to participate again in the future."

Invisible Interdictions



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