



## **Electromagnetism and Cyber ELT Group's response to counter future threats**

### **ELT Group solution presented at Nato CCDCOE**

*Rome, 31st May 2024*

ELT Group participated in Tallinn at the 16th Cyber Conflict Conference: Over the Horizon, at NATO's Cooperative Cyber Defence Centre of Excellence (CCDCOE). During the event, the company demonstrated how electromagnetic defence is strategic, in a multi-domain context, to ensure the cyber resilience of critical civil and military infrastructures against cyber threats that exploit the electromagnetic spectrum, so-called CEMA (Cyber electromagnetic activities). The demonstration was realised thanks to Cy4gate's Hybrid Digital Twin - Cyber Range that reproduced a realistic simulation of the network in combination with ELT's electromagnetic defence systems in hardware-in-the-loop mode.

The objective of the demo was to show what are the potential vulnerabilities for a critical military infrastructure subjected to cyber threats from an adversary using radio-frequency vectors, such as EMSO (ElectroMagnetic Spectrum Operation), and how to increase resilience to such attacks through electromagnetic defence, which creates an additional layer of defence to the cyber one in the network. The demo shows how this type of defence is achieved through the advanced capabilities offered by ELT Group's C-ESM (Communication Electromagnetic Supporting Measures) systems.

In addition to its core competence in the electromagnetic spectrum domain, thanks to Cy4gate, a company that is part of the Group, the ELT Group is working to be able to respond in a timely manner to today's cyber security requirements. Cy4gate, in fact, designs develops and produces systems and services that meet the 'Cyber Intelligence & Cyber Security' requirements of Armed Forces, companies and institutions. By combining electromagnetic and cyber expertise, the ELT Group has demonstrated that it can provide effective responses to pervasive threats characteristic of multi-domain scenarios.

Press Office  
**ELT Group**  
Rossella Conte  
rossella.conte@elt.it  
+39.06.4154.254 - +393666367317





## **ELT GROUP**

For more than 70 years, it has been a world leader in Electronic Defense systems. Thanks to innovative management of the electromagnetic spectrum, achieved through proprietary and integrated technologies, today the brand is an international Group with a multi-domain approach that also covers Cyber, Space and Biodefense.

By the experience gained through participation in major European Defense programs including Eurofighter Typhoon, FREMM, PPA today ELT Group is present in more than 30 countries in the World with more than 3000 systems supplied, and also participates in the project for the sixth generation avionics platform GCAP (Global Combat Air Programme)

ELT Group is headquartered in Italy, but has a presence in 11 countries located on 3 continents through sales offices and companies of strategic importance and local law in Germany and Saudi Arabia.

Also part of the ELT Group are CY4GATE, which specializes in Cyber security and Cyber Intelligence, E4Life, Italy's first Biodefense company and Solynx Corporation, a US-based technology scouting company.

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