# SPACE CYBERSECURITY **WEEKLY WATCH**

Timeframe: Weekly

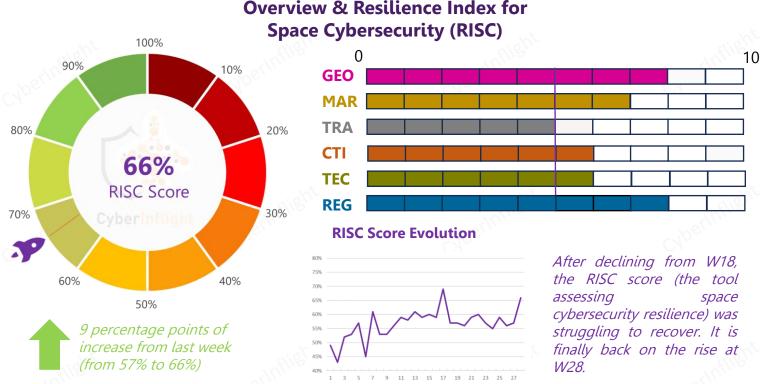
# of articles identified: 39 Est. time to read: 90 minutes

Week 28 July 9 - 15, 2024

Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.



Overview & Resilience Index for



This week's RISC score is 66%. CyberInflight became an official member of the Aerospace Valley ecosystem after being approved by the Cluster Board of Directors. On the technology front, Microchip has unveiled its first devices in its PIC64 High-Performance Spaceflight Computing family of microprocessors. This new technology can balance cost-effectiveness with high fault tolerance crucial for round-the-clock service reliability and space asset cybersecurity. In addition, a paper entitled "Cyber and electromagnetic threats to space infrastructure" is published by the Istituto Affari Internazionali, an Italian think tank on international relations. On the geopolitical front, Japan and

NATO have an accommodation in their world positions and individual security. This fact allows them to cooperate in enhancing the resilience of their own satellites to withstand jamming and spoofing. On the regulatory front, Beijing is said to have a program to jam broadcasts and falsify signals from EU satellites. The European Space Law would be helpful to counter these attacks, although it is still delayed as work on it is in progress at different stages. On the market front, Thales signed a contract with the French Army for the supply of 30 satellite communication stations. This contract aims to enable the French Army to manage satellite data with a high level of protection against jamming, cyberattacks and other risks. Lastly, the Japanese Space Exploration Agency discovered unknown cybersecurity vulnerabilities during the process of addressing a security incident while working with

Microsoft to investigate a cyberattack on its systems in 2023. After the investigation, it was confirmed

compromised.





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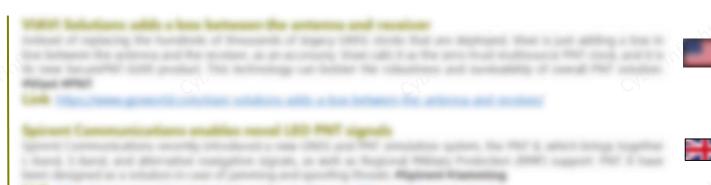
#### CyberInflight is one of 36 new members of the Aerospace Valley ecosystem

Following the cluster's last Board of Directors meeting, the Aerospace Valley competitiveness cluster is pleased to welcome 36 new members to its ecosystem in Occitanie, Nouvelle-Aquitaine & Other regions.

#CyberInflight #AerospaceValley

Link: https://www.aerospace-valley.com/annuaire-des-membres/cyberinflight

# **TECHNOLOGY**





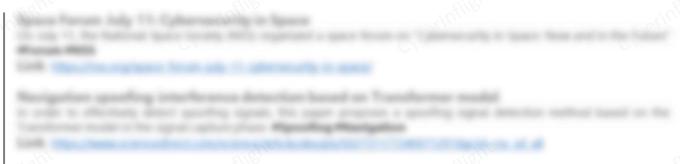
#### 64-bit MPUs advance space computing

Microchip has launched the first devices in its PIC64 High-Performance Spaceflight Computing (PIC64-HPSC) family of microprocessors. One of them are the Radiation-tolerant PIC64-HPSC RT MPUs, which are tailored for the commercial space sector, particularly Low Earth Orbit (LEO) constellations. They balance cost-effectiveness with high fault tolerance crucial for round-the-clock service reliability and space asset cybersecurity. **#Microchip #Microprocessors** 



Link: https://www.edn.com/64-bit-mpus-advance-space-computing/

# **TRAINING & EDUCATION**





#### Cyber and electromagnetic threats to space infrastructure

In this paper, the Italian international relations think tank Istituto Affari Internazionalihat (IAI) explains that the resilience of space systems can be achieved through a holistic approach that considers both the technological component, adopting the principle of security by design, and the human component, with particular attention to including cyber when training personnel. **#IAI #SpaceInfrastructure** 



Link: https://www.iai.it/sites/default/files/iai2407.pdf



## **GEOPOLITIC**

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### Japan-NATO ties: for what end?

In addition to the strengthening of practical areas of cooperation, Japan and NATO have increasingly shown alignment in their worldviews and the interconnectedness of their individual security. Thus, they could work on improving the resiliency of their own satellites to withstand jamming and spoofing. They could also work to integrate their separate Space Domain Awareness capabilities to ensure broader situational awareness for US-led activities. **#Japan #NATO** 



Link: https://www.rand.org/pubs/commentary/2024/07/japan-nato-ties-for-what-end.html the first and before the goal to be because it before the goals decape apolicy brings to consist the liberary softs agreed, but in contained advertise and strating having relating and having parastrony readons of its appropriate from \$6000 Wightenburght. BOTH TO AN TOURS THAT COMPANIES AND THE TO I TO SEE AND ADDRESS. constition. Name, conting of our COS upolitios with higher tap provider for children with absorbage





# **REGULATION**

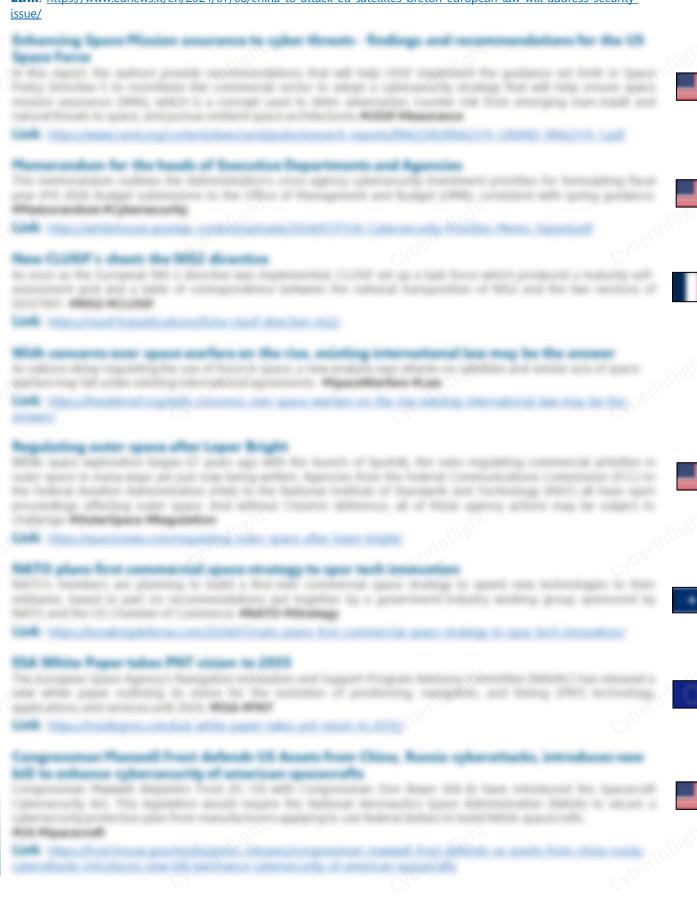
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#### China to attack EU satellites, Breton: "European law will address security issue"

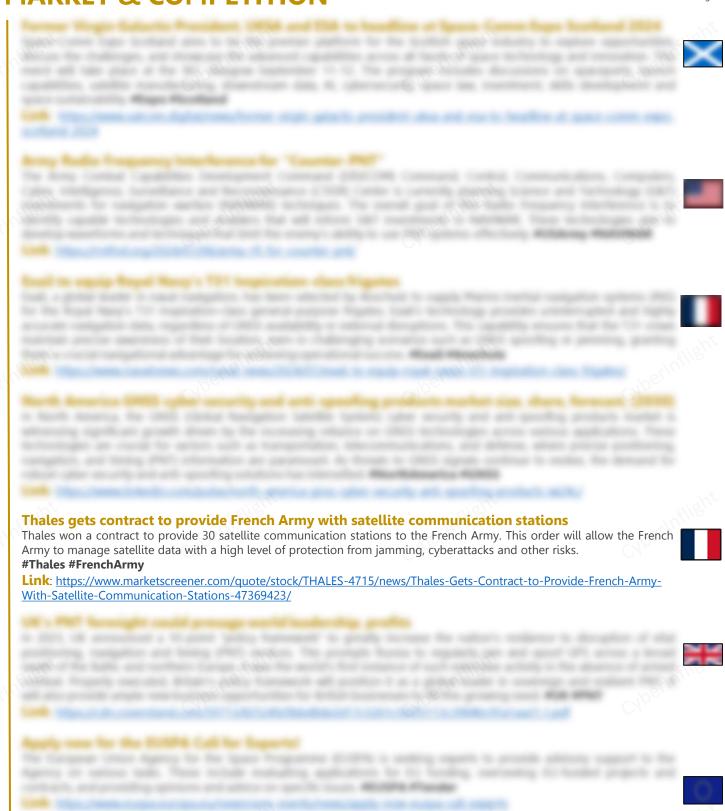
Beijing allegedly has a program to jam broadcasts and falsify information. EU runs for cover, but regulations lag behind. Thierry Breton glossed over the delays of EU space law. He said that works are in progress at different levels in parallel and Member States are developing receivers at the national level for the secure navigation service offered by Galileo, the European Union's civil satellite navigation and positioning system and Galileo. He also said that Galileo supplies state-ofthe-art protection against spoofing and jamming, ensuring robust and reliable performance even under jamming conditions. #EUSpaceLaw #China

Link: https://www.eunews.it/en/2024/07/08/china-to-attack-eu-satellites-breton-european-law-will-address-security-





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# THREAT INTELLIGENCE







### Japanese space agency spotted zero-day attacks while cleaning up attack on M365

Multiple malware attack saw personal data accessed, but rocket science remained safe. The Japanese Space Exploration Agency (JAXA) discovered unknown cybersecurity vulnerabilities during the process of addressing a security incident while working with Microsoft to probe a 2023 cyberattack on its systems. An investigation ensued, and saw networks taken offline to verify that no classified data on rockets, satellites, or national security was compromised. **#JAXA #Cyberattack** 



Link: https://www.theregister.com/2024/07/11/jaxa\_m365\_zeroday\_attacks/

