SPACE CYBERSECURITY WEEKLY WATCH

Week 43

October 22 - 28, 2024

Timeframe: Weekly

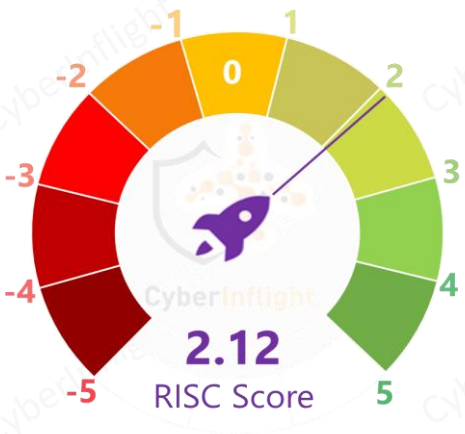
# of articles identified: 25

Est. time to read: 60 minutes

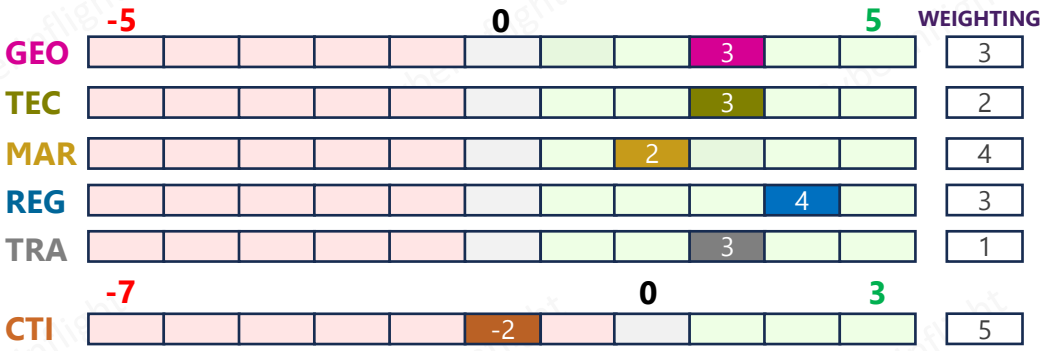
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

- GEOPOLITICS
- TECHNOLOGY
- MARKET INTELLIGENCE
- REGULATION
- TRAINING & EDUCATION
- THREAT INTELLIGENCE
- IMPORTANT NEWS

RISC Score Assesment

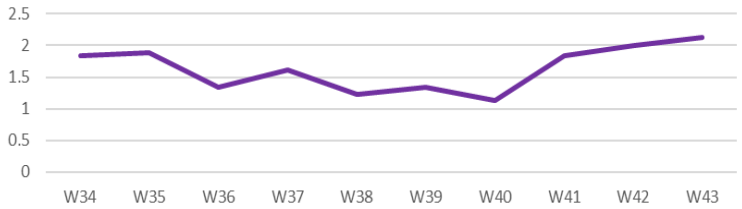


Overview & Resilience Index for Space Cybersecurity (RISC)



This week's RISC score is 2.12, an increase from the previous week reflecting a stable yet dynamic environment due to recent technological innovations & decreased presence of high-severity threats in the ecosystem.

RISC Score Evolution



On the geopolitical front, the European Space Agency (ESA) has stated it will not comment on the ongoing merger discussions between Airbus Defence & Space and Thales Alenia Space, opting to focus on securing funding for existing and new projects with potential changes in European space industry dynamics. On the technological side, the US Space Force is reportedly advancing its "Meadowlands" project, designed to jam adversarial satellite signals as a countermeasure against potential threats. This jamming technology could disrupt enemy satellites, preventing adversaries from leveraging space-based communication or intelligence capabilities during conflict. On the market front, The European Space Agency (ESA) has selected GMV for the CyberCUBE mission, which aims to tackle cybersecurity threats in space. GMV will work on developing cybersecurity protocols and technologies to protect satellite infrastructure from cyber risks. CyberCUBE will assess vulnerabilities and propose innovative strategies to enhance satellite system resilience, ensuring secure data flow and system integrity in the growing space economy. On the threat intel side, amid rising cyber challenges, the Ukrainian military is exploring the creation of a dedicated cyber army branch. This new initiative is part of Ukraine's response to cyber threats posed by regional adversaries and aims to enhance the country's defensive cyber capabilities. On the regulatory front, NIST is pushing forward with developing post-quantum cryptography (PQC) standards, which are crucial for securing digital data in a future where quantum computing could easily break traditional encryption methods. Lastly, the European Space Agency's 4S Program, focused on supporting secure satellite operations and protecting European space assets, enhances space safety through targeted training initiatives.

CYBERINFLIGHT'S NEWS

Exploring aerospace cybersecurity with 'Tame the Drift' podcast launch episode

Florent Rizzo from CyberInflight joined the Tame the Drift Podcast to share his insights into the evolving landscape of aerospace cybersecurity. In a world where digital threats challenge satellite integrity, critical space assets, and more. Mr. Rizzo delves into the importance of robust threat intelligence and proactive cyber defenses to protect the aerospace ecosystem. **#AerospaceCybersecurity #Podcast**

Link: https://www.linkedin.com/posts/tame-the-drift-podcast_ep-1-tamethedrift-in-aerospace-cybersecurity-activity-7254416246081830912-aKzi?utm_source=share&utm_medium=member_desktop

CyberInFlight's Florent Rizzo nominated for CBC 2024 Cyber Talent award

Florent Rizzo, CEO of CyberInFlight, has been nominated for an award at the upcoming Cybersecurity Business Convention (CBC) 2024 in Toulouse, which celebrates notable advancements and achievements in cybersecurity. The CBC, a key annual event for cybersecurity leaders, promotes innovation, resilience, and the ongoing defense of digital infrastructures. Florent's nomination highlights his contributions to space cybersecurity, reflecting CyberInFlight's ongoing commitment to pioneering cybersecurity in aerospace. The CBC event will also feature discussions, panels, and workshops on critical issues such as emerging threats, regulatory updates, and new security technologies. **#CybersecurityLeadership #CBC2024**

Link: https://groupeladepeche.qualifioapp.com/quiz/1499891_138/cbc-2024-cyberstar.html

CyberInFlight attends IAC, Milan 2024, emphasizing space cybersecurity

CyberInFlight joined global space community at the IAC 2024, where cybersecurity emerged as a core theme. With over 24 papers, two technical sessions, and a plenary discussion dedicated to space cybersecurity, the event underscored the need for proactive measures to protect the growing space ecosystem. CyberInFlight is actively engaging with industry peers to drive solutions for the sector's critical security needs. Let's connect and collaborate to secure space.
#IAC #SpaceCybersecurity

Link: https://www.linkedin.com/feed/update/urn:li:activity:7254884319549112320/

GEOPOLITICS

[redacted]

ESA's stance on Airbus and Thales Alenia Space merger talks

The European Space Agency (ESA) has stated it will not comment on the ongoing merger discussions between Airbus Defence & Space and Thales Alenia Space, opting to focus on securing funding for existing and new projects. With potential changes in European space industry dynamics, ESA's role in negotiating increased contract down payments is seen as essential for advancing its programs amid an evolving landscape of private partnerships. **#ESA #EU**

Link: https://www.spaceintelreport.com/esa-we-wont-weigh-in-on-merger-talks-beween-airbus-a-proposed-increase-in-contract-downpayments/

[redacted]

MARKET & COMPETITION

[redacted]

ESA contracts GMV for CyberCUBE space cybersecurity mission

The European Space Agency (ESA) has selected GMV for the CyberCUBE mission, which aims to tackle cybersecurity threats in space. GMV will work on developing cybersecurity protocols and technologies to protect satellite infrastructure from cyber risks. CyberCUBE will assess vulnerabilities and propose innovative strategies to enhance satellite system resilience, ensuring secure data flow and system integrity in the growing space economy. **#ESA #Cybersecurity**

Link: https://www.spacewar.com/reports/GMV_wins_ESA_contract_for_CyberCUBE_space_cybersecurity_mission_999.html

[redacted]

TECHNOLOGY

[redacted]

TECHNOLOGY

US Space Force develops "Meadowlands" project to jam enemy satellites

US Space Force is reportedly advancing its "Meadowlands" project, designed to jam adversarial satellite signals as a countermeasure against potential threats. This jamming technology could disrupt enemy satellites, preventing adversaries from leveraging space-based communication or intelligence capabilities during conflict. Focused primarily on countering threats from nations like Russia and China, Meadowlands highlights the strategic importance of satellite jamming in modern defense, emphasizing the U.S. aim to maintain space superiority. **#USSF #SatelliteJamming**

Link: https://www.dailymail.co.uk/sciencetech/article-14001079/Secretive-American-weapon-JAMS-satellites.html?ns_mchannel=rss&ns_campaign=1490&ito=1490

[redacted]

[redacted]

[redacted]

REGULATION

[redacted]

NIST advances standards for post-quantum cryptography, securing digital future

NIST is pushing forward with developing post-quantum cryptography standards, which are crucial for securing digital data in a future where quantum computing could easily break traditional encryption methods. These standards are designed to ensure long-term cybersecurity resilience and trust in digital systems as quantum technology advances. This milestone is expected to play a critical role in protecting data across government, finance, and other sensitive sectors.
#PostQuantum #NIST

Link: https://decentcybersecurity.eu/nist-advances-post-quantum-cryptography-standards-astrategic-milestone-for-digital-security/

TRAINING & EDUCATION

ESA's 4S program invests in space system safety training

The European Space Agency's 4S Program is enhancing space safety through targeted training initiatives. Focused on supporting secure satellite operations and protecting European space assets, the program includes simulations and hands on modules to equip engineers and analysts with advanced skills in space system safety. ESA's commitment to workforce development in this field underlines its goal to strengthen Europe's strategic space infrastructure.

#SpaceSafety #ESA

Link: https://www.linkedin.com/posts/laurence-duquerroy-34183040_esa-europeanspaceagency-funding-activity-7252713221487308802-yV1u?utm_source=share&utm_medium=member_ios

THREAT INTELLIGENCE

[redacted]

[redacted]

Ukraine Eyes Formation of a New Cyber Army Branch

Amid rising cyber challenges, the Ukrainian military is exploring the creation of a dedicated cyber army branch. This new initiative is part of Ukraine's response to cyber threats posed by regional adversaries and aims to enhance the country's defensive cyber capabilities. If established, this branch would strengthen Ukraine's resilience against cyber warfare, reflecting an increasing global trend toward prioritizing cybersecurity in national defense strategies.

#Ukraine #CyberDefense

Link: https://www.msn.com/en-us/news/world/ukrainian-military-considering-creation-of-new-cyber-army-branch/ar-AA1sRcjd