SPACE CYBERSECURITY WEEKLY WATCH

Week 8

February 18 – 24, 2025

Timeframe: Weekly

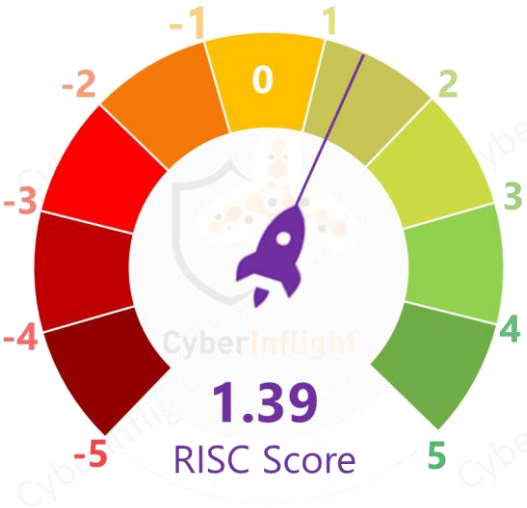
# of articles identified: 23

Est. time to read: 30 minutes

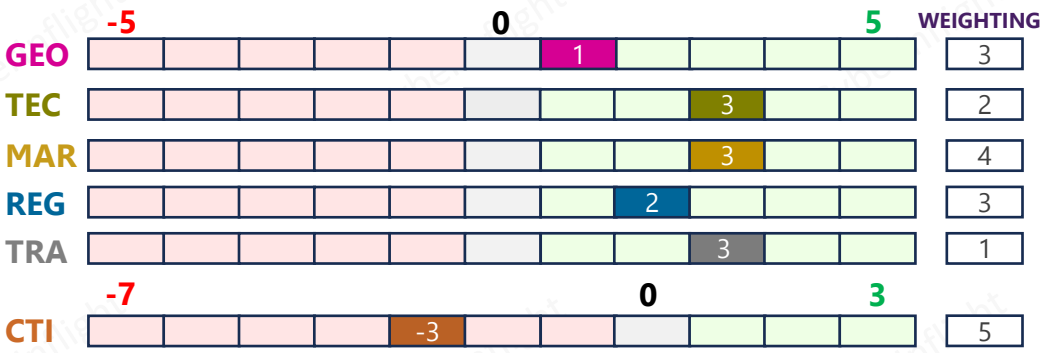
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

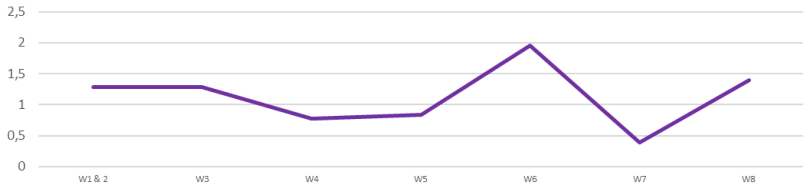
RISC Score Assesment



Overview & Resilience Index for Space Cybersecurity (RISC)



RISC Score evolution in 2025



The RISC score for this watch is 1.39, a big increase from last week. This score is due to a certain homogeneity between the categories, fewer threats than in the last weeks, and more technological news.

This week, while the US government and the military are cutting its spending on scientific and technical research, an article states that China is ramping up, seeking to close the gap in technology that has underpinned US military superiority in space and other domains for two generations. On the market side, Zephr.xyz, a provider of augmented Position, Navigation, and Timing (AugPNT) technologies, has been awarded a $1.74m Small Business Innovation Research (SBIR) Direct-to-Phase II contract from the Air Force Research Laboratory (AFRL) to develop real-time detection of GNSS jamming and spoofing in contested domains while geolocating the sources of attacks.

From a regulation side, Almenar et al. address the overarching legal challenges posed by integrating AI into outer space operations, specifically on cybersecurity, intellectual property, and data governance, which are critical for safeguarding autonomous systems in a new paper.

On the technological side, the European Space Agency (ESA) invites researchers, engineers, and innovators to propose experimental ideas for testing new technologies, methods, algorithms, protocols, and techniques in the domain of cybersecurity applied to space systems.

Lastly, some space officials at the International Defence Conference (IDC) warned about evolving threats to spacecraft. "Space has become a domain for warfighting," Mohamed Alahbabi said, adding that it is making it "subject to threats."

GEOPOLITICS

Space Force official warns of China outpacing US defense tech with greater investment

While the US government and the military in particular is cutting its spending on scientific and technical research, China is ramping up, seeking to close the gap in technology which has underpinned US military superiority in space and other domains for two generations, a senior Space Force official said last week**. #USSF #China**

Link: https://www.satellitetoday.com/cybersecurity/2025/02/19/space-force-official-warns-of-china-outpacing-us-defense-tech-with-greater-investment/

[illegible]

REGULATION

Almenar et al. on "The protection of AI-based space systems from a data-driven governance perspective"

The paper aims to address the overarching legal challenges posed by the integration of AI into outer space operations, specifically on cybersecurity, intellectual property, and data governance, which are critical for safeguarding autonomous systems. **#AI #Paper**

Link: https://ailawblawg.com/2025/02/18/almenar-et-al-on-the-protection-of-ai-based-space-systems-from-a-data-driven-governance-perspective/

[illegible]

MARKET & COMPETITION

Zephr.xyz awarded $1.7m Air Force Research Laboratory contract for GNSS jamming detection technology

Zephr.xyz, a provider of augmented Position, Navigation, and Timing (AugPNT) technologies, has been awarded a $1.74m Small Business Innovation Research (SBIR) Direct-to-Phase II contract from the Air Force Research Laboratory (AFRL) to develop real-time detection of GNSS jamming and spoofing in contested domains while geolocating the sources of these attacks. **#GNSS #Jamming**

Link: https://insidegnss.com/zephr-xyz-awarded-1-7m-air-force-research-laboratory-contract-for-gnss-jamming-detection-technology/

[illegible]

MARKET & COMPETITION

[redacted]

[redacted]

TECHNOLOGY

[redacted]

Call for ideas: cybersecurity experiments in orbit

The European Space Agency is pleased to invite researchers, engineers, and innovators to propose experimental ideas for testing new technologies, methods, algorithms, protocols, and techniques in the domain of cybersecurity applied to space systems. **#CyberCUBE #ESA**

Link: https://security4space.esa.int/2025/cfi-cybersecurity-experiments-in-orbit/

THREAT INTELLIGENCE

[redacted]

US satellites enabled with AI tech to make them immune to cyberattacks

China has emerged as one of the primary geopolitical and technological adversaries of the United States, a fact widely acknowledged on the global stage. In its pursuit of dominance, China continuously competes with the West, with the satellite sector being a significant area of contest. **#AI #Cyberattack**

Link: https://www.cybersecurity-insiders.com/us-satellites-enabled-with-ai-tech-to-make-them-immune-to-cyber-attacks/

[redacted]

[redacted]

TRAINING & EDUCATION

[redacted]

IDEX: Space leaders worry about evolving threats to spacecraft

Warns by space officials at the International Defence Conference (IDC) on Sunday: "Space has become a domain for warfighting," Mohamed Alahbabi said at the event, adding that it is making it "subject to threats". **#IDEX #IDC**

Link: https://www.timesaerospace.aero/news/events/idex-space-leaders-worry-about-evolving-threats-to-spacecraft

TRAINING & EDUCATION

CyberInflight is a Market Intelligence company dedicated to the topic of Space Cybersecurity. The company provides strategic market and research reports, bespoke consulting, market watch & OSINT researches and cybersecurity awareness training.
Contact us at: research@cyberinflight.com