



SPACE CYBERSECURITY WEEKLY WATCH

Week 7

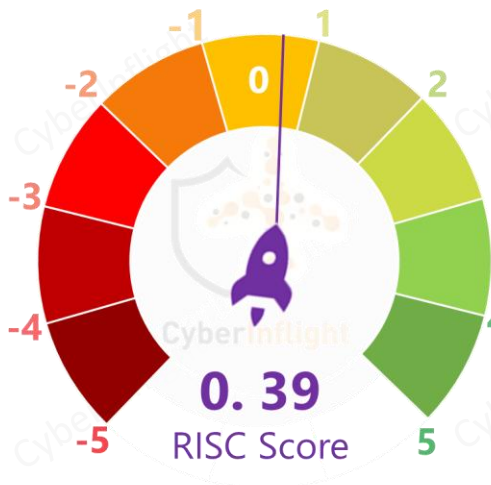
February 11 – February 17, 2025

Timeframe: Weekly
of articles identified: 26
Est. time to read: 50 minutes

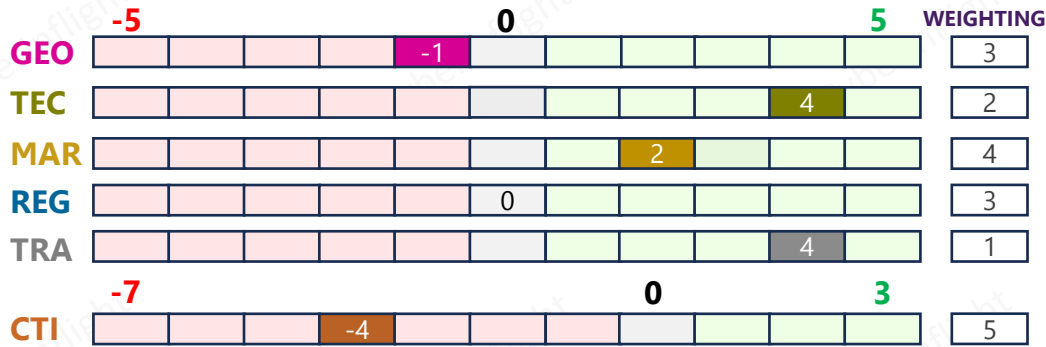
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

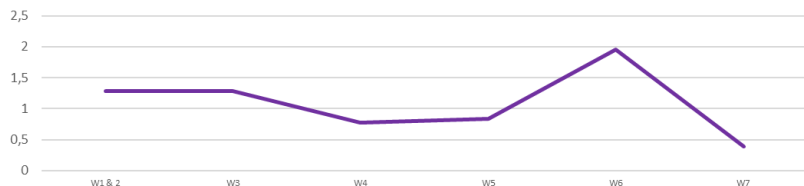
RISC Score Assessment



Overview & Resilience Index for Space Cybersecurity (RISC)



RISC Score evolution in 2025



↓ The RISC score for this watch is 0.39, a big decrease from last week. This score is due to a high threat score and very little news on the rest of the landscape.

Recently, CyberInflight announced its new service: a monthly live webinar to present the main trends and news of the month. Furthermore, CyberInflight attended IRIS² info day last Wednesday.

Meanwhile, on the geopolitical side, the American agency financed an entire ecosystem, contributing to the security of Kiev's telecommunications networks against Russian cyberattacks. Some Ukrainian cybersecurity concerns can be highlighted after these funds, called USAID, were frozen. This week stands out because of the high level of threats. The Cybersecurity and Infrastructure Security Agency (CISA) has issued an urgent warning regarding critical vulnerabilities in Elber communications equipment. These vulnerabilities could allow attackers to access sensitive systems and disrupt essential infrastructure such as the DVB-S/S2 satellite. On the market side, a steering committee established a three-year roadmap for NASA's second core Flight System software, cFS2.0, which will include new features supporting all future missions. On the technological side, Synergy Quantum unveils hybrid quantum security, a satellite-based QKD, and PQC for unbreakable global encryption. Lastly, the AFCEA Rocky Mountain Cyberspace Symposium in Colorado Springs occurred on February 11. Most countries stated that adroit cyber guardians, robust ranges, resilient systems, and additional cybersecurity capabilities are necessary to protect space operations.



CYBERINFLIGHT'S NEWS



CyberInflight releases a monthly webinar!

This year, CyberInflight is offering a new service: a monthly online webinar to be aware of trends about space cybersecurity. Don't forget to subscribe! **#Webinar #CyberInflight**

Link: https://www.linkedin.com/posts/cyberinflight_cyberinflight-january-monthly-watch-activity-7294662925850402818-qKZL



Union secure connectivity program – IRIS² SpaceRise consortium industry info day event

CyberInflight attended the IRIS² Industry InfoDay that took place in Brussels on February 12. This key event brought together industry leaders, innovators, subcontractors, and potential partners to shape the future of Europe's sovereign satellite connectivity. **#EUSpace #Conference**

Link: https://www.linkedin.com/posts/ses_the-iris%C2%B2-industry-infoday-in-brussels-was-activity-7295810941479190529-wtKC?utm_source=share&utm_medium=member_desktop&rcm=ACoAAC6ww1MBDUN4xAUPfCv581dgYy1A-7vIm60



GEOPOLITICS



Inquiétudes sur la cybersécurité ukrainienne après le gel des fonds de l'USAID (*Trad: Ukrainian cybersecurity concerns after USAID funds frozen*)

The American agency financed an entire ecosystem contributing to the security of Kiev's telecommunications networks against Russian cyberattacks. It was also subsidizing Starlink terminals, which were at the heart of an internal audit into suspected "theft" and "corruption". **#Threats #USAID**

Link: https://www.lemonde.fr/international/article/2025/02/15/inquietudes-sur-la-cybersecurite-ukrainienne-apres-le-gel-des-fonds-de-l-usaid_6547876_3210.html



MARKET & COMPETITION



NASA to update core flight system software within 2025

A steering committee established a three-year road map for NASA cFS 2.0, which will include new features supporting all future missions, Prajapati told SpaceNews on Monday. The upcoming software bump will offer plug-and-play capabilities for in-space robotics, cybersecurity, distributed computing, spacecraft autonomy and onboard machine learning, he added. **#NASA #cFS**

Link: <https://executivegov.com/2025/02/nasa-to-update-core-flight-system-software-in-2025/>



THREAT INTELLIGENCE



CVE-2025-0674 (CVSS 9.8) & CVE-2025-0675: CISA warns of critical Elber flaws – PoC available, no patch

The Cybersecurity and Infrastructure Security Agency (CISA) has issued an urgent warning regarding critical vulnerabilities in Elber communications equipment. These vulnerabilities could allow attackers to gain unauthorized access to sensitive systems and disrupt critical infrastructure. **#Vulnerabilities #DVB-S/S2**

Link: <https://securityonline.info/cve-2025-0674-cvss-9-8-cve-2025-0675-cisa-warns-of-critical-elber-flaws-poc-available-no-patch/>





THREAT INTELLIGENCE

ISAC satellite supports (ISST) launch to space security

The ISAC satellite supports (ISST) launch to space security is a significant milestone in the development of space security and cybersecurity.

ISST Keynote

ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)

Attacks & Counterattacks: The 2025 assessment by experts from Germany (Published as Counterattacks assessment for affected countries)

The 2025 assessment by experts from Germany (Published as Counterattacks assessment for affected countries) is a significant milestone in the development of space security and cybersecurity.

ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)



The growing threat of cyberattacks on space assets

The growing threat of cyberattacks on space assets is a significant milestone in the development of space security and cybersecurity.

ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)

Increasing potential vulnerability in Swedish Space Agency's government network

The increasing potential vulnerability in Swedish Space Agency's government network is a significant milestone in the development of space security and cybersecurity.

ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)



Spacecraft system assessment over satellite system research center

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ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)



TECHNOLOGY

Original developer uses 3D printing and printing capability

The original developer uses 3D printing and printing capability is a significant milestone in the development of space security and cybersecurity.

ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)



The University of Technology (UT) Assessment tool includes potential design of 3D printing system

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ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)

ISST project assessing 3D printing and printing capability

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ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)



ISST (ISST) Low Noise Amplifier enhancing satellite signal reception

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ISST [https://www.isac.gov.au/news-and-media/press-releases/2025/01/2025-01-16-isst-launch-to-space-security](#)



TECHNOLOGY

Being alerted for 24/7 with quantum technology

A team of researchers from the US Air Force Research Laboratory (AFRL) has developed the first quantum key distribution (QKD) system.

Link: [https://www.afml.af.mil/Newsroom/Article.aspx?articleid=202502050001](#)



China's quantum strategy and the threat of global data security vulnerabilities

China's quantum strategy is a key element of its overall strategy for space and information security. The country is investing heavily in quantum technology, particularly in quantum key distribution (QKD) and quantum random number generation (QRNG).

Link: [https://www.southchina.com/news/quantum-technology/quantum-key-distribution-02052025.html](#)



Synergy Quantum unveils hybrid quantum security: satellite-based QKD and PQC for unbreakable global encryption

In a rapidly evolving cyber threat landscape, ensuring secure communication is more critical than ever. Synergy Quantum, a pioneer in integrating Post-Quantum Cryptography (PQC) with Quantum Key Distribution (QKD), is at the forefront of advancing the future of cybersecurity. **#PQC #QKD**

Link: <https://www.prnewswire.com/in/news-releases/synergy-quantum-unveils-hybrid-quantum-security-satellite-based-qkd-and-pqc-for-unbreakable-global-encryption-30237760.html>



TRAINING & EDUCATION

Cybersecurity in aerospace: safeguarding the future of flight and space

In an era of increasing cyber threats, the aerospace industry is responsible to ensure the growing number of aircraft and spacecraft are protected.

Link: [https://www.aiaa.org/newsroom/press-releases/2025/02/05/aiaa-announces-partnership-with-cyberinflight-to-advance-aircraft-cybersecurity](#)

Development of Europe's 24/7 quantum key distribution

Europe has developed the first quantum key distribution system across the Atlantic, linking the UK and the US. The system is based on a quantum key distribution (QKD) system, which is a key element of quantum cryptography.

Link: [https://www.bbc.com/news/technology-67890123](#)



Quantum intelligence with a satellite-based quantum key distribution system

The quantum key distribution system is based on the quantum key distribution (QKD) system, which is a key element of quantum cryptography.

Link: [https://www.southchina.com/news/quantum-technology/quantum-key-distribution-02052025.html](#)



Deep neural network based quantum key distribution system

Deep neural network based quantum key distribution system is a key element of quantum cryptography.

Link: [https://www.aiaa.org/newsroom/press-releases/2025/02/05/aiaa-announces-partnership-with-cyberinflight-to-advance-aircraft-cybersecurity](#)

Quantum intelligence: the satellite-based quantum key distribution system

The quantum key distribution system is based on the quantum key distribution (QKD) system, which is a key element of quantum cryptography.

Link: [https://www.southchina.com/news/quantum-technology/quantum-key-distribution-02052025.html](#)





TRAINING & EDUCATION



Preventing cyber effects from impacting the space domain

Adroit cyber guardians, robust ranges, resilient systems and additional cybersecurity capabilities are necessary to protect space operations. **#AFCEA #USSF**

Link: <https://www.afcea.org/signal-media/cyber-edge/preventing-cyber-effects-impacting-space-domain>

[Blurred text from a document or report, likely related to the link above.]



*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*