



SPACE CYBERSECURITY WEEKLY WATCH

Week 41

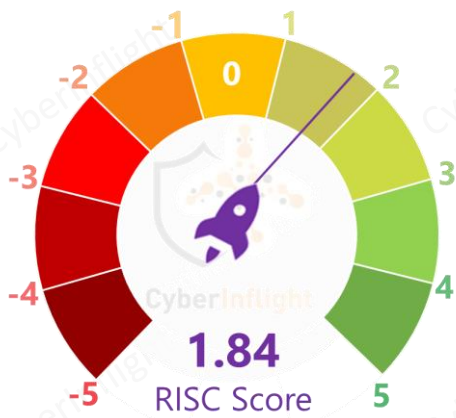
October 8 - 14, 2024

Timeframe: Weekly
of articles identified: 25
Est. time to read: 30 minutes

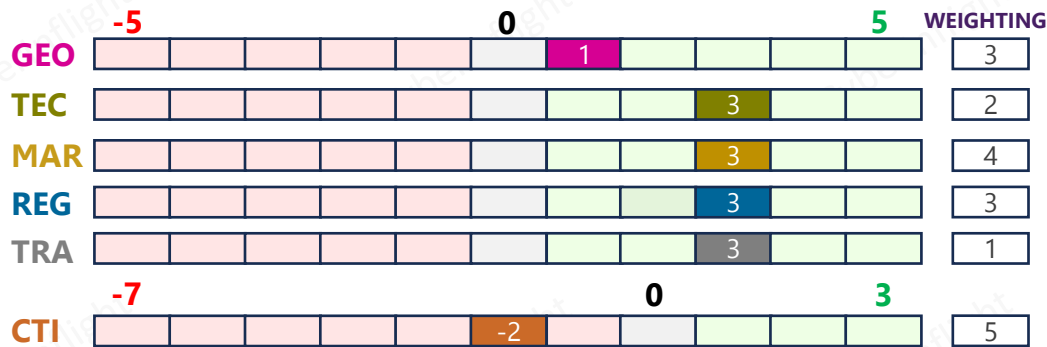
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

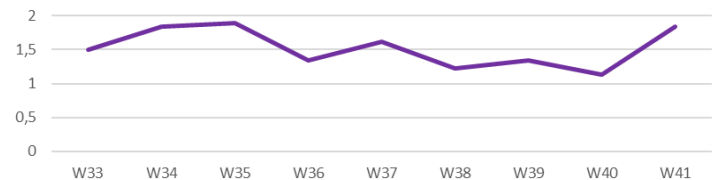
RISC Score Assessment



Overview & Resilience Index for Space Cybersecurity (RISC)



RISC Score Evolution



↑ This week's RISC score is 1.84, an increase from the previous weeks. This amelioration is primarily attributed to dynamic technological progress and good threat and business climates.

On the technological side, Safran Electronics & Defense made various announcements at the ION GNSS+ Conference in Baltimore, including the launch of the GSG-8 Gen2 and the availability of Xona Space Systems' PULSAR XL on Skydel simulation software. Moreover, on the technological side, the Joint Air Power Competence Centre (JAPCC) published its 2024 journal's third and last part, discussing use cases and timelines in quantum for ISR and PNT. On the market front, Xage Security Government announced a \$1.5 million Sequential Phase II Small Business Innovation Research (SBIR) contract with the US Navy to prove Xage's Zero Trust Access and Protection and Federated Identity Management capabilities in support of multiple strategic initiatives. This initiative supports compliance with the US Department of Defense Chief Information Officer (DoD CIO) Zero Trust Target Strategy to enhance data protection, systems, and services with a Zero Trust model/architecture by 2027. On the regulatory side, the European Union adopted the Cyber Resilience Act that addresses gaps, clarifies connections, and enhances coherence in the cybersecurity legislative framework. On the threat intel side, an article analyses the results of a war game outlining how China could cut undersea cables, attack GPS, and isolate Taiwan in a conflict to take control of the island. Like most advanced nations, Taiwan has not widely adopted alternatives to GPS and other satnav. Denying GPS could bring the country to its knees. Lastly, on a blog, Dr Basel Halak, Associate Professor of Secure Electronics and Director of the Cyber Security Academy at the University of Southampton, raises awareness and writes about the challenges of keeping the sector safe from current and emerging threats.



GEOPOLITICS

NATO unveils the Space capabilities of member nations

The first ever NATO Space Summit, held in Brussels, Belgium, on 27-28 September 2024, was a significant milestone in the alliance's efforts to enhance its space capabilities. The summit, which was the first of its kind, brought together representatives from all 32 NATO member states to discuss the alliance's space strategy and the role of space in NATO's defense and security. The summit was held in a virtual format, with participants joining from various locations across the alliance. The summit was chaired by NATO Secretary General Mark Rutte, who emphasized the importance of space in NATO's defense and security. The summit was also attended by the heads of state or government of all NATO member states. The summit was a key event in NATO's space strategy, which is outlined in the NATO Space Strategy document. The summit was also a key event in NATO's efforts to enhance its space capabilities. The summit was a key event in NATO's space strategy, which is outlined in the NATO Space Strategy document. The summit was also a key event in NATO's efforts to enhance its space capabilities.



TECHNOLOGY

Israel unveils its new offensive capabilities and jamming abilities

Israel's new offensive capabilities and jamming abilities were unveiled at a conference in Tel Aviv, Israel, on 27 September 2024. The conference was held by the Israel Defense Forces (IDF) and was attended by senior IDF officials and members of the Israeli media. The conference was a key event in Israel's efforts to enhance its space capabilities. The conference was a key event in Israel's space strategy, which is outlined in the Israel Space Strategy document. The conference was also a key event in Israel's efforts to enhance its space capabilities.



USAF 2024 focuses on cybersecurity and network defense

The US Air Force (USAF) 2024 focuses on cybersecurity and network defense. The USAF is committed to protecting its networks and data from cyber threats. The USAF is also committed to enhancing its cybersecurity capabilities. The USAF is also committed to enhancing its network defense capabilities. The USAF is also committed to enhancing its cybersecurity capabilities. The USAF is also committed to enhancing its network defense capabilities.



Building the space force of the future is a top priority for the US

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China to launch new quantum communications satellite in 2025

China is planning to launch a new quantum communications satellite in 2025. The satellite is expected to be the world's first quantum communications satellite. The satellite is expected to be the world's first quantum communications satellite. The satellite is expected to be the world's first quantum communications satellite.



Safran launches GSG-8 Gen2 at ION GNSS+, displays XONA PULSAR simulation capabilities

Safran Electronics & Defense made various announcements at ION GNSS+ in Baltimore, including the launch of the GSG-8 Gen2. This simulator is the latest evolution of the company's GSG simulator series, building on the success of the GSG-8, according to the company. The upgraded simulator offers improvements in capabilities, operability and performance, providing a high-end solution for multi-antenna/vehicle and jamming/spoofing scenarios. Safran also announced the availability of Xona Space Systems' PULSAR XL on Skydel simulation software. #Safran #IONGNSS



Link: <https://insidegnss.com/safran-launches-gsg-8-gen2-at-ion-gnss-displays-xona-pulsar-simulationcapabilities/>



Quantum technologies for Air and Space (Part 3 of 3)

In this final installment of the series, Dr. Michal Krelina and Lieutenant Colonel Denis Dubravcik explore the practical military applications of quantum technologies in Intelligence, Surveillance, and Reconnaissance (ISR) and Positioning, Navigation, and Timing (PNT). They discuss cutting-edge quantum imaging systems, sensors such as gravimeters and magnetometers, and how these tools can revolutionize battlefield awareness and navigation in GPS-denied environments. With NATO recently adopting a Quantum Technology Strategy, the authors outline timelines for implementation and the significant operational advantages these advancements promise for the Alliance. #Quantum #EW

Link: <https://www.japcc.org/articles/quantum-technologies-for-air-and-space-part-3-of-3/>



MARKET & COMPETITION

White House unveils new government services for the US Marine Corps

The White House unveiled a new suite of government services for the US Marine Corps, including a new mobile app, a new website, and a new social media presence. The services are designed to improve the Marine Corps' ability to communicate and collaborate with its personnel and the public. The services are being developed by the White House's Office of Management and Enterprise Services (OMES) and the US Marine Corps' Information Management Office (IMO).

Keywords: #WhiteHouse #MarineCorps #GovernmentServices

Link: [https://www.whitehouse.gov/the-press-office/2024/10/08/white-house-unveils-new-government-services-for-the-us-marine-corps](#)



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Link: [https://www.whitehouse.gov/the-press-office/2024/10/08/white-house-unveils-new-government-services-for-the-us-marine-corps](#)



Xage Security secures \$1.5m contract by US Navy to advance Zero Trust initiatives

Xage Security Government, vendor of Zero Trust access and protection solutions, announced on Wednesday a \$1.5 million Sequential Phase II Small Business Innovation Research (SBIR) contract with the United States Navy to prove out Xage's Zero Trust Access and Protection and Federated Identity Management capabilities in support of multiple strategic initiatives. This initiative supports compliance with the US Department of Defense Chief Information Officer (DOD CIO) Zero Trust Target Strategy to enhance the protection of data, systems, and services with a Zero Trust model/architecture by 2027. #XageSecurity #ZeroTrust

Link: <https://industrialcyber.co/news/xage-security-secures-1-5-million-contract-by-us-navy-to-advance-zero-trust-initiatives/>



Contract to explore Quantum Communication Research

The Department of Defense (DoD) has awarded a contract to explore Quantum Communication Research. The contract is valued at \$10 million and is for a period of 12 months. The research is to be conducted by the Quantum Information Science (QIS) Center at the University of Maryland, College Park. The research is to focus on developing quantum communication systems that are secure and resistant to interception.

Link: [https://www.defense.gov/Newsroom/News/Article/ArticleID/387547](#)



Space Force unveils 11 strategies for 10th Space Development Program

Space Force unveiled 11 strategies for the 10th Space Development Program (SDP). The strategies are designed to improve the Space Force's ability to develop and operate space-based capabilities. The strategies include: 1) Develop and operate space-based capabilities that are secure and resistant to interception. 2) Develop and operate space-based capabilities that are resilient to attack. 3) Develop and operate space-based capabilities that are interoperable with other space-based capabilities. 4) Develop and operate space-based capabilities that are scalable and flexible. 5) Develop and operate space-based capabilities that are cost-effective. 6) Develop and operate space-based capabilities that are sustainable. 7) Develop and operate space-based capabilities that are transparent. 8) Develop and operate space-based capabilities that are accountable. 9) Develop and operate space-based capabilities that are inclusive. 10) Develop and operate space-based capabilities that are innovative. 11) Develop and operate space-based capabilities that are agile.

Link: [https://www.spaceforce.mil/Newsroom/News/Article/ArticleID/387547](#)



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Link: [https://www.spaceforce.mil/Newsroom/News/Article/ArticleID/387547](#)



Secretary's Road to Spectrum to be used for mission-critical applications through 2030

The Secretary of Defense announced that the Road to Spectrum (RTS) program will be used for mission-critical applications through 2030. The RTS program is a multi-year program that is designed to provide the Department of Defense with access to a wide range of spectrum resources. The RTS program is being developed by the Defense Information Systems Agency (DISA) and the Defense Information Systems Engineering Center (DISEC).

Link: [https://www.defense.gov/Newsroom/News/Article/ArticleID/387547](#)





REGULATION



EU adopts Cyber Resilience Act, bolsters security requirements of connected devices and infrastructure

The European Union adopted a new law on cybersecurity for digital products to ensure their safety before market entry. The Cyber Resilience Act addresses gaps, clarifies connections, and enhances coherence in the cybersecurity legislative framework. As the first regulation globally to set security requirements for product market entry, it mandates that from 2027, products with digital components must meet these standards to be available in the EU. **#CyberResilienceAct #EU**

Link: <https://industrialcyber.co/regulation-standards-and-compliance/eu-adopts-cyber-resilience-act-bolsters-security-requirements-of-connected-devices-and-infrastructure/>



THREAT INTELLIGENCE



War Game: China will attack Taiwan's comms tech, GPS

Like most advanced nations, Taiwan has not widely adopted alternatives to GPS and other satnav. Denying GPS could help bring the nation to its knees. China's terrestrial complement to satnav, eLoran, is very difficult to disrupt and reaches far beyond Taiwan. Even if the US were to disable BeiDou, as envisioned in the war game, China would still have PNT at home and in the theater of conflict. **#PNT #China**

Link: <https://rntfnd.org/2024/10/07/war-game-china-will-attack-taiwans-comms-tech-gps-spaceneews/>



TRAINING & EDUCATION



How do we ensure the security of space applications ?

In this blog, Dr Basel Halak, Associate Professor of Secure Electronics and Director of the Cyber Security Academy at the University of Southampton writes about the challenge of keeping the sector safe from current and emerging threats.

#Awareness #SpaceApplications

Link: <https://www.port.ac.uk/news-events-and-blogs/how-do-we-ensure-the-security-of-space-applications>



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.

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