



SPACE CYBERSECURITY WEEKLY WATCH

Week 25

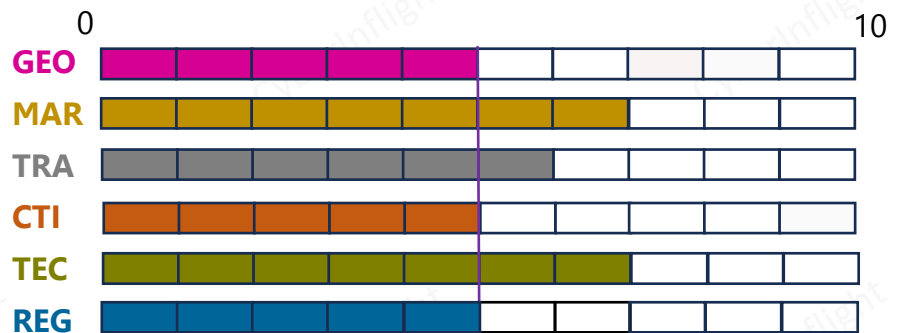
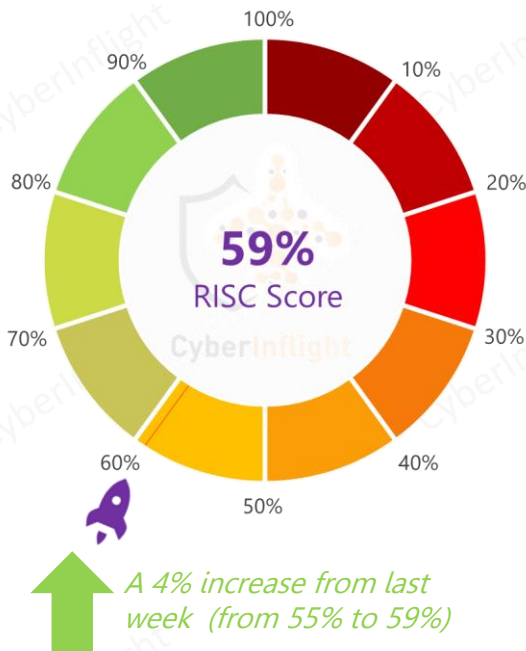
June 18 – 24, 2024

Timeframe : Weekly
of articles identified : 30
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.

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

Overview & Resilience Index for Space Cybersecurity (RISC)



RISC Score Evolution



After declining from W18 to W20, as well as in W23 and W24, the RISC score (the tool assessing space cybersecurity resilience) struggled to recover. However, it rose slightly in W22 and W25.

This week's RISC score is 59%. This week, USSF launched programs to modernize satellite ground systems. The private sector and the cloud are being called upon to carry out this program for ground operator resilience. On the regulation front, as a veteran of data protection, NIS2 has witnessed first-hand the evolution of digital threats and the increasing sophistication of cyber adversaries. As such, the launch of NIS2 is a giant step in redefining the cybersecurity landscape for essential and digital services. On another front, AQNav was released by SandboxAQ, which is a technology designed for navigation when GPS systems are jammed or not available. AI algorithms, powerful quantum sensors, and the Earth's crustal magnetic field in AQNav make it resistant to interference. On another news, a paper entitled "Outer space cyberattacks: generating novel scenarios to avoid surprise" published by California Polytechnic University, prepares policy makers and technical specialists for the future of cybersecurity in space by helping them to create hypothetical threat scenarios for anticipation. Regarding the market front, a contract is signed for the supply of Safran's Geonyx inertial navigation and pointing systems to the Polish Armed Forces by Safran Electronics & Defense and Wojskowe Zakłady Elektroniczne. This contract is aimed at enhancing the resilience of Polish satellites against jamming and spoofing. Lastly, the head of the Space ISAC has warned that the commercial space industry is facing an assault of cyber attacks and other threats, but lacks the resources and coordination to adequately defend itself.



GEOPOLITIC

Five Space Critical IT systems focus on adapting to evolving cyber threats to boost critical infrastructure security resilience

The Department of Defense (DoD) announced a new initiative to modernize five critical IT systems used to command and control military satellites. The systems are: the Mission Management System (MMS), the Mission Management System (MMS), the Mission Management System (MMS), the Mission Management System (MMS), and the Mission Management System (MMS). The goal of this modernization is to bolster resiliency by allowing ground operators to rapidly respond to attacks, jamming, cyber intrusions and other disruptions that could cripple satellite networks.

Link: [https://spacenews.com/space-force-takes-another-swing-at-modernizing-satellite-ground-systems/](#)

Space Force takes another swing at modernizing satellite ground systems

The US Space Force has embarked on yet another attempt to modernize ground systems used to command and control military satellites. This time, it's turning to the commercial sector and the cloud with a program called Rapid Resilient Command and Control (R2C2). The goal of this modernization is to bolster resiliency by allowing ground operators to rapidly respond to attacks, jamming, cyber intrusions and other disruptions that could cripple satellite networks.

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#USSF #R2C2

Link: <https://spacenews.com/space-force-takes-another-swing-at-modernizing-satellite-ground-systems/>

REGULATION



NIS2 directive explained: duty of care for data

The introduction of the Network and Information Security Directive 2 (NIS2) by the European Union marks a significant milestone in the journey toward a safer, more stable digital ecosystem. As data protection veterans, we have witnessed firsthand the evolution of digital threats and the increasing sophistication of cyber adversaries. It is against this backdrop that we delve into the importance of NIS2 and its potential to redefine the landscape of cybersecurity for essential and digital services. #NIS2 #Cybersecurity

Link: <https://www.veeam.com/blog/nis2-directive-explained.html>



AISS system will help supply chain assess and mitigate AISS system programs

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TECHNOLOGY

Commercial Real-Time Navigation System Powered by AI and Quantum to Address GPS Denial, Jamming and Spoofing

SandboxAQ is officially announcing AQNav, a breakthrough technology designed for navigation across air, land and sea when Global Positioning Satellite (GPS) systems are jammed or not available. AQNav is a geomagnetic navigation system that leverages proprietary AI algorithms, powerful quantum sensors, and the Earth's crustal magnetic field. AQNav will provide an unjammable, all-weather, terrain-agnostic, real-time navigation solution in situations where GPS signals are unavailable, denied, or spoofed. #AQNav #GPS



[Link: https://giscafe.com/nbc/articles/view_article.php?articleid=2077939](#)

AI Systems preparing workloads for AI Code

AI systems are preparing workloads for AI code, which will be used to generate code for AI systems. This is a key step in the development of AI systems that can generate code for other AI systems. The AI code is generated by AI systems that are trained on large amounts of code. The AI code is then used to generate code for other AI systems. This process is known as AI code generation. AI code generation is a key step in the development of AI systems that can generate code for other AI systems. The AI code is generated by AI systems that are trained on large amounts of code. The AI code is then used to generate code for other AI systems. This process is known as AI code generation.



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TRAINING & EDUCATION



Outer space cyberattacks: generating novel scenarios to avoid surprise

This report aims to help policymakers and tech specialists prepare for the future of cybersecurity in outer space. The report, called Outer Space Cyberattacks, from California Polytechnic State University's Ethics and Emerging Sciences Group think tank. It highlights different manners and motivations for cyberattacks in space, and includes a tool helping cybersecurity teams create hypothetical threat scenarios. **#Cybersecurity #Space**

Link: <https://arxiv.org/abs/2406.12041>





MARKET & COMPETITION

Germany: Network Management System for its second space surveillance satellite

The German Aerospace Establishment (DLR) has awarded a contract to the German company Safran Electronics & Defense for the development and supply of a network management system (NMS) for the second space surveillance satellite (SSS-2) of the German Space Surveillance and Tracking (SSST) program. The NMS is a critical component of the SSST program, enabling the satellite to track and identify objects in Earth orbit. The contract value is approximately 10 million euros. **Media: Management**



USA: Automated network management helps military SPYGLASS users connect

The US Department of Defense (DoD) has awarded a contract to the German company Safran Electronics & Defense for the development and supply of an automated network management system (ANMS) for the SPYGLASS program. The ANMS is a critical component of the SPYGLASS program, enabling the satellite to track and identify objects in Earth orbit. The contract value is approximately 10 million euros. **Media: Management**



USA: Space Force and Thales sign strategic alliance to enhance defense and security technologies

The US Space Force and Thales have signed a strategic alliance agreement to enhance defense and security technologies. The agreement covers a wide range of areas, including satellite navigation, satellite communications, and satellite-based intelligence gathering. The alliance is expected to result in a number of joint ventures and partnerships between the two companies. **Media: Management**



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Safran and Wojskowe Zakłady Elektroniczne join forces to support Polish Defense

Safran Electronics & Defense and the Polish company Wojskowe Zakłady Elektroniczne (WZE S.A.) signed for the first time a contract for the supply of Safran's Geonyx inertial navigation and pointing systems to the Polish Armed Forces during the Eurosatory exhibition. This inertial navigation technology is resilient to jamming and spoofing of satellite navigation signals to Polish Armed Forces. **#Safran #Poland**

Link: <https://www.edrmagazine.eu/%E2%96%BA-safran-and-wojskowe-zaklady-elektroniczne-join-forces-to-support-polish-defense>

USA: Congress passes Space Force U.S. Code

The US House of Representatives has passed a bill to establish the Space Force as a separate branch of the US military. The bill is expected to be signed into law by the President. **Media: Management**



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THREAT INTELLIGENCE



Space industry group warns of escalating cyber threats, outmatched defense

The commercial space industry is facing a onslaught of cyber attacks and other threats, but lacks the resources and coordination to adequately defend itself, the head of the Space ISAC warned. She said that 100 cyberattacks against critical infrastructures related to space systems were recorded every week. Most space companies would have a difficult time defending against well-orchestrated cyber attacks by a nation-state. **#CyberThreats #Space**



Link: <https://spacenews.com/space-industry-group-warns-of-escalating-cyber-threats-outmatched-defenses/>

The GPS jamming spreading in the eastern Black Sea and eastern Mediterranean Sea is still going strong

GPS jamming in the eastern Black Sea and eastern Mediterranean Sea is still going strong, according to a report by the U.S. Navy. The report says that GPS jamming is a growing threat to U.S. Navy operations in the region.



Link: <https://www.usnavy.mil/News-Events/News-Details/2024/06/18/gps-jamming-in-the-eastern-black-sea-and-eastern-mediterranean-sea-is-still-going-strong/>

Relinquishing the Atlantic Sea and GPS jamming in commercial flight

The U.S. Navy is warning that GPS jamming in the Atlantic Sea and commercial flight is a growing threat. The report says that GPS jamming is a growing threat to U.S. Navy operations in the region.

Link: <https://www.usnavy.mil/News-Events/News-Details/2024/06/18/relinquishing-the-atlantic-sea-and-gps-jamming-in-commercial-flight/>

Israel's GPS signal jamming was affecting flight safety, says Reuters

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Link: <https://www.reuters.com/world/middle-east/israel-gps-jamming-affecting-flight-safety-2024-06-18/>

US satellite agency warns space powers over North Korea's GPS signal jamming

The US satellite agency warns space powers over North Korea's GPS signal jamming. The report says that GPS jamming is a growing threat to U.S. Navy operations in the region.



Link: <https://www.usnsa.gov/News-Events/News-Details/2024/06/18/us-satellite-agency-warns-space-powers-over-north-koreas-gps-signal-jamming/>

Japan's space agency reports cyberattacks, possible data leak

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Link: <https://www.jaxa.go.jp/en/press/2024/06/18/01/>