



SPACE CYBERSECURITY WEEKLY WATCH

Week 1

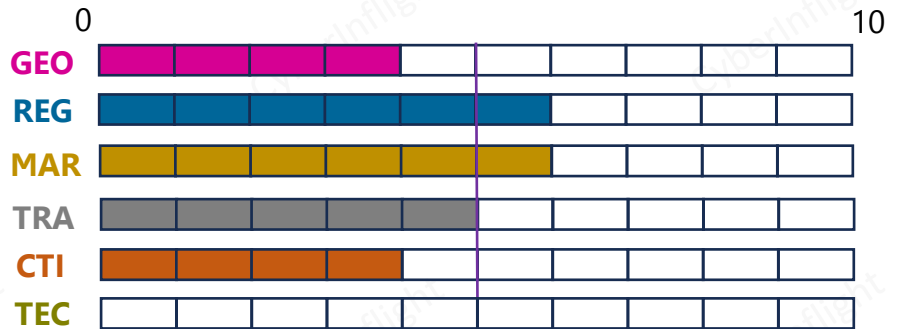
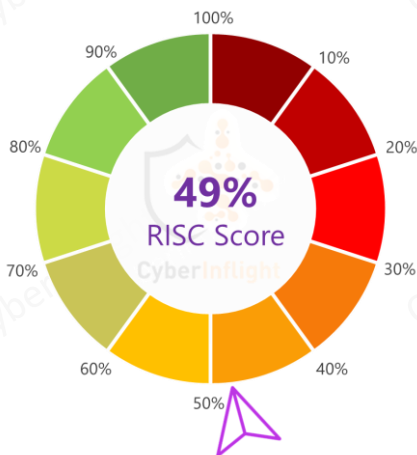
January 1 – 8, 2024

Timeframe : Weekly
of articles identified : 22
Est. time to read : 30 min

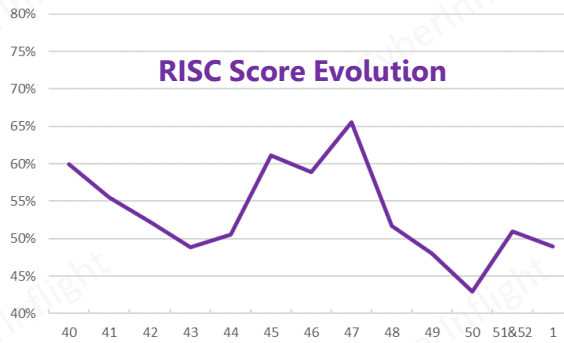
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

Overview & RISC Score



↓ **Decrease from last week (from 51% to 49%)**



There was a peak on W47, with a RISC Score of 66%, the highest of the year. The lowest of 2023 was W50, with a RISC Score of 43%.

This week's RISC Score is 49%. To mark the new year, NASA has published its "Space Security Best Practices Guide" to bolster mission cybersecurity efforts for the public sector and private sector space activities. This plan has been in preparation for several months and provides guidance specific to missions, programs, and projects not already covered in the existing NPRs (NASA Procedural Requirements) and Standards. An American report published by the Air Force China Aerospace Studies Institute on PLA (People's Liberation Army) Counterspace Command and Control reveals that China's plans for space warfare include cyberattacks and electronic jamming to disrupt and disable U.S. satellite systems. The Airbus acquisition of the cyber IT division of the Atos group has been restarted after a setback in 2023. The deal would be worth around 1.8 billion euros. The Lulz Security Indonesia group, has claimed to have gained access to the WRESAT satellite of Australia. The WRESAT, which stands for Weapons Research Establishment Satellite, was Australia's first satellite. Finally, an interesting podcast episode was released this week, on cybersecurity in outer space.



GEOPOLITIC

Space Force merges potential satellite refueling plans

As new technologies that allow for refueling satellites in space, the Space Force is exploring how to integrate these capabilities into its operations. A satellite service called "Orion Rising 2.0" shed light on the strategic and logistical considerations involved in this emerging field. **#OSD #Warfare**

Link: <https://www.defenseone.com/defense/article/space-force-merges-potential-satellite-refueling-plans/2024/01/04/space-force-merges-potential-satellite-refueling-plans/>



China's space warfare plan advances killer missiles capable of disabling U.S. satellites

China's plans for space warfare include cyberattacks and electronic jamming to disrupt and disable U.S. satellite systems and, in the future, small robot satellites to grab or crush U.S. military space sensors, according to a senior U.S. intelligence official report. **#Warfare #China**

Link: <https://www.washingtontimes.com/news/2024/jan/4/china-space-warfare-includes-cyberattacks-jamming-/>



Space security in the Americas can no longer go overlooked

As the space security conversation advances, one region that continues to be largely overlooked is Latin America and the Caribbean (LAC). However, space security should matter to the countries of the region — even to those for whom space is not a strategically important field — and the United States should realize that with space security gaps remaining, there are important benefits to bringing the conversation closer to home. **#LAC #Resilience**

Link: <https://www.defenseone.com/defense/article/space-security-americas-no-longer-overlooked/2024/01/04/space-security-americas-no-longer-overlooked/>

REGULATION



NASA releases Space Security Best Practices Guide for mission cybersecurity in interconnected space

The U.S. National Aeronautics and Space Administration (NASA) released the first iteration of its Space Security Best Practices Guide to bolster mission cybersecurity efforts for the public sector and private sector space activities, as space missions and technologies grow increasingly interconnected. **#NASA #BestPractice**

Link: <https://industrialcyber.co/threats-attacks/nasa-releases-space-security-best-practices-guide-for-mission-cybersecurity-in-interconnected-space/>



More Than Just LEO: A Framework for SPO-B and Space Critical Infrastructure

The argument that we have been stuck on a simple yes or no question as we designate space as the 11th terrestrial critical infrastructure sector is still. The debate centers on the argument that space assets are as important to terrestrial activities that they should receive such a designation. The space critical infrastructure model must be built around the notion of the environmental goods. As an example, air is not considered critical infrastructure on Earth, but it would be in space. **#CriticalInfrastructure #Framework**

Link: <https://www.defenseone.com/defense/article/more-than-just-leo-a-framework-for-spo-b-and-space-critical-infrastructure/2024/01/04/more-than-just-leo-a-framework-for-spo-b-and-space-critical-infrastructure/>



Cyber Incident Reporting for Critical Infrastructure - Considerations for the Space Industry

On March 15, 2023, President Biden signed the Cyber Incident Reporting for Critical Infrastructure Act of 2023 (CIRCIA) into law. Space is not enumerated as a critical infrastructure sector that will be covered by the proposed rules. However, some satellite operators may be required to report cyber incidents because they are integral to critical infrastructure operations, most notably in sectors such as communications and financial services. **#CriticalInfrastructure #CIRIA**

Link: <https://www.defenseone.com/defense/article/cyber-incident-reporting-for-critical-infrastructure-considerations-for-the-space-industry/2024/01/04/cyber-incident-reporting-for-critical-infrastructure-considerations-for-the-space-industry/>





MARKET & COMPETITION

Space economy: Q 2024 and compliance investment material: a insurance perspective (Part 1)
Space economy: 2024 complete year: changing investments and geopolitical uncertainty

What will be the scenario for the space economy in 2024? In this article, analysts at QualitySpace announce their predictions for the new year. #QualitySpace #MarketTrends

Link: [https://www.qualityspace.it/insights/space-economy-q-2024-and-compliance-investment-material-1-insurance-perspective](#)

US Air Force Contracts Award for Five-Year Satellite Task Overhaul

The contract, valued at \$1.48 billion by the Air Force, has a five-year term with a total value of \$400 million and requires the contractor to provide and test systems, software, and cybersecurity capabilities utilizing satellite services from the Air Force's 1st Air Force and 2nd Air Force. #USAF #Space #Contract

Link: [https://www.afmilitary.com/government/military/2024/01/01/air-force-contracts-award-for-five-year-satellite-task-overhaul](#)



Cybersecurity, Airbus punta sulle attività di Atos: sul piatto fino a 1,8 miliardi (Cybersecurity, Airbus bets on Atos assets: up to 1.8 billion in the pot)

Airbus, the European aviation and aerospace giant, aims to buy the cybersecurity unit of the heavily indebted French IT group Atos. The deal is worth between 1.5 billion and 1.8 billion euros. #Airbus #Atos

Link: <https://www.spaceeconomy360.it/difesa-cybersecurity/cybersecurity-airbus-punta-sulle-attivit-di-atos-sul-piatto-fino-a-18-miliardi/>



New proposed rule for CMMC 2.0 lays out security requirements, raises some eyebrows

The Defense Department recently released a new proposed rule for its Cybersecurity Maturity Model Certification program, laying out specific security requirements for defense contractors and subcontractors — and raising questions about the balance between better security and regulatory burden. #CMMC2.0 #Defense

Link: [https://www.afmilitary.com/defense/cybersecurity/new-proposed-rule-for-cmmc-2-0-lays-out-security-requirements-raises-some-eyebrows](#)



Weekend Partners with Kibo for Network Expansion in the Middle East

Weekend Space Networks is partnering with Kibo to launch an orbital satellite service, intending to bring secure connectivity solutions to the Middle East region. #Weekend #Kibo

Link: [https://www.spaceeconomy360.it/news/weekend-space-networks-partners-with-kibo-for-network-expansion-in-the-middle-east-2024-01-08](#)

TRAINING & EDUCATION

SPACE INTERNET OF THINGS (SIOT) AND CYBERSECURITY WISERAT AND SEALQ 'EXPLORING THE FINAL FRONTIER: SECURITY IN THE SPACE IOT ERA'

Webinar by Wisera about the latest about the Space Internet of Things (SIOT) space a new chapter in connectivity and technology, bringing together the vast potential of space exploration with the practicality of IoT. #Webinar #SIOT

Link: [https://www.wisera.com/en/whats-new/space-internet-of-things](#)



Space Invaders: Navigating Cybersecurity in Outer Space

A podcast episode about cybersecurity in outer space. With increasing satellites orbiting the Earth, space has become a new frontier for cyber attacks. #Podcast #Satellite

Link: https://www.ivoox.com/space-invaders-navigating-cybersecurity-in-outer-space-audios-mp3_rf_122108054_1.html

China developing tools to control foreign satellites: Space History

News from Space History: China is developing tools to control foreign satellites. #SpaceHistory #Presentation

Link: [https://www.spaceeconomy360.it/news/china-developing-tools-to-control-foreign-satellites-space-history](#)

ISIS Industry Information Day Presentation

Presentation from the ISIS Industry Information Day presenting the different aspects of ISIS, from regulations to contracts and tender specifications. #ISIS #Presentation

Link: [https://www.spaceeconomy360.it/news/isis-industry-information-day-presentation](#)





THREAT INTELLIGENCE

Kenya also affected by end of year GPS systems jamming

GPS systems across the globe, all regions, including Kenya, reported disturbances at the end of last year. According to Kenyan media, Kenya is no longer the Consumer Protection and Technical Regulatory Authority (CPTRA) said.

Link: [https://www.cpa.go.ke/2023/12/28/kenya-also-affected-by-end-of-year-gps-system-jamming/](#)



A new security level against GNSS spoofing

Galileo, Europe's Global Navigation Satellite System, has developed a safety function to strengthen resilience against spoofing attacks. The so-called (GNSS) Service Navigation Message Authentication (SNMA) embedded anti-spoofing features that should become available for high-end and mass-market GNSS receivers.

Link: [https://www.ec.europa.eu/digital-affairs/en/galileo-anti-spoofing-new-security](#)



★ Lulz Security Indonesia targets access to the WRESAT satellite

Lulz Security Indonesia, a threat actor, has claimed to have gained access to the WRESAT satellite of Australia. The WRESAT, which stands for Weapons Research Establishment Satellite, was Australia's first satellite. The post was published on December 30, 2023, on the Telegram network by Lulz Security Indonesia. The threat actor's claim raises concerns about potential unauthorized access to the satellite. The post does not provide information about any specific victims, organizations, websites, or industries affected by this incident. **#Attack #WRESAT**

Link: <https://t.me/lulzsecurityagency/943?single>



New steps to secure the Low Earth Orbit satellite environment

Cybersecurity experts are calling for prioritizing satellite communication (SATCOM) security, pointing out vulnerabilities such as those that were able to exploit. An analysis published in early 2023 by German researchers reported the discovery of software vulnerabilities in three satellite systems they studied, including a defect in a code library that they believe is used by multiple other satellite systems.

Link: [https://www.defensivemanagement.com/2024/01/04/new-steps-to-secure-the-low-earth-orbit-satellite-environment/](#)

Air Travel is Not Ready for Electronic Warfare With military spoofing GPS signals, civilian planes could get targeted in the crossfire

Cybersecurity experts warn that it may be possible to maliciously tamper with a plane's navigation system and lead to off-course without the flight crew even being aware. Although GPS vulnerabilities have gotten the most attention in recent years, numerous systems aboard aircraft are potentially vulnerable to electronic attack.

Link: [https://www.comsecjournal.com/2023/12/28/air-travel-is-not-ready-for-electronic-warfare/](#)

Russia Might Be Jamming GPS Signals, Anonymous Researcher Claims

According to the researcher, GPS signals significantly deteriorate over NATO countries near the southern Baltic Sea, and the source of the deterioration appears to be Kaliningrad.

Link: [https://www.kaspersky.com/blog/2023/12/28/russia-might-be-jamming-gps-signals-anonymous-researcher-claims/](#)



Exclusive: Russian hackers were inside Ukraine telecoms giant for months

Ukrainian hackers were inside Ukraine telecoms giant operator's system from at least the last year in a cyberattack that should serve as a "big warning" to all states, Russian cyber spy chief told Reuters.

Link: [https://www.reuters.com/world/ukraine/russian-hackers-were-inside-ukraine-telecoms-giant-months-ukraine-2023-12-28/](#)

