

# SPACE CYBERSECURITY WEEKLY WATCH

Week 31

July 29 – August 4, 2025

Timeframe: Weekly  
# of articles identified: 34  
Est. time to read: 75 minutes

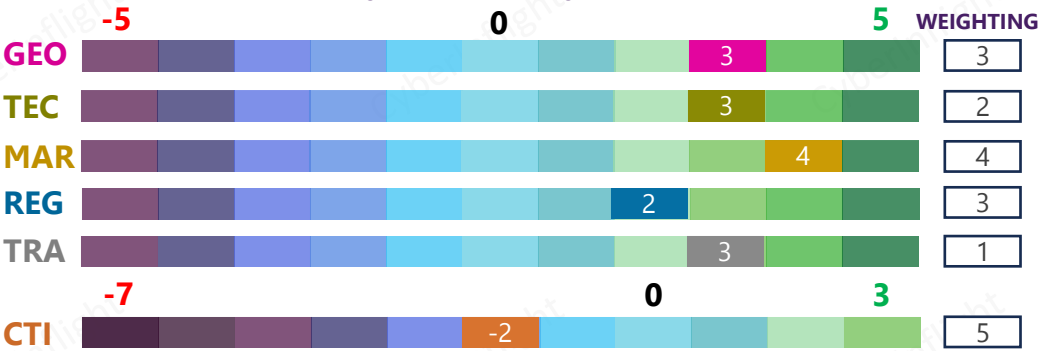
Articles, company’s communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

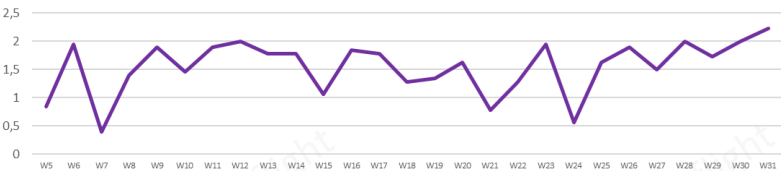
## RISC Score Assessment



## Overview & Resilience Index for Space Cybersecurity (RISC)



## RISC Score evolution in 2025



↑ The RISC score for this watch is 2.23, an increase from last week. This difference is due to improvements on the geopolitical and market fronts.

This week, Lt. Gen. Philip A. Garrant, in charge of the USSF Orbital Watch initiative, announced that eventually Orbital Watch will be able to brief companies on specific threats they face, even when the need to protect intelligence sources and methods means the warnings must remain classified. The Orbital Watch is currently sharing unclassified threat information from U.S. intelligence agencies. Reinforcing the focus on supply chain security, NIST released the second public draft of Internal Report 8536, Supply Chain Traceability: Manufacturing Meta-Framework. This effort aims to help U.S. manufacturers securely exchange component traceability data across distributed ecosystems. Public comments are open until September 1, 2025. On the technology front, HawkEye 360 Inc. announced powerful enhancements to its GNSS Interference (GNSS-I) Detection product suite. These upgrades, designed with defense, intelligence, and national security operations in mind, offer unprecedented accuracy, coverage, and insight into global GPS jamming and spoofing threats. On the market front, Deloitte announced Silent Shield, explaining it is an out-of-band defensive cyber operations (DCO) payload designed to provide cyber analytics and anomaly detection. On the threat intel front, Estonian authorities reported that Russian GNSS jamming caused over €500,000 in damages over the past three months and included attempts to hijack Estonian border surveillance drones. Finally, wolfSSL presented a webinar on July 30 about ‘Cybersecurity Solutions for the Satellite Industry’.

## GEOPOLITICS

### Washington, nation-state hackers target global maritime infrastructure as cyberattacks, GPS spoofing surge

New research from the US indicates more than a hundred cyberattacks targeting the maritime and shipping industry have been attributed to nation-state actors, including the US, China, Russia, and North Korea. The attacks include GPS spoofing, data theft, and disruption of maritime infrastructure. The research is part of a report from the US Cybersecurity and Infrastructure Security Agency (CISA).



**Link:** <https://www.cisa.gov/news-events/press-releases/stories/2025/07/2501-cyberattacks-maritime-infrastructure>

### UAE to launch youth academy for AI, space, cybersecurity

The United Arab Emirates (UAE) is launching a youth academy focused on artificial intelligence (AI), space, and cybersecurity. The academy is part of the UAE's National Strategy for Artificial Intelligence and is aimed at developing the skills of young people in these fields. The academy will offer a range of courses and training opportunities.



**Link:** <https://www.ae-wire.com/news/uae-launches-youth-academy-for-ai-space-cybersecurity>

### How the Space Force secures 'disruptive communications'

The US Space Force is working to secure 'disruptive communications' by developing a new set of capabilities. The Space Force is part of the US Department of Defense and is responsible for ensuring the security of the nation's space-based assets. The new capabilities will include the ability to detect and track threats to space-based assets and to take action to protect them.



**Link:** <https://www.spaceforce.mil/News-Events/Press-Releases/2025/07/2501-space-force-secures-disruptive-communications>

### China says Japan's space defense guidelines threaten security and stability

China has expressed concern over Japan's new space defense guidelines, which it says threaten regional security and stability. The guidelines are part of Japan's National Security Strategy and are aimed at strengthening the country's space-based defense capabilities. China has said that the guidelines are a violation of international law and that they could lead to a new arms race in space.



**Link:** <https://www.chinainfo.gov.cn/en/202507/250101/202507250101.htm>



### Space Force aims to share classified threat info with industry

The Space Force's neighborhood watch-style initiative to share information with the private sector about threats to space assets will eventually grow to include classified intelligence. **#OrbitalWatch #USSF**



**Link:** <https://www.airandspaceforces.com/space-force-classified-threat-info-industry/>

### Japan joins multinational space defense drill

Japan has joined a multinational space defense drill, which is part of a larger effort to strengthen international cooperation in space. The drill is being held in the Pacific Ocean and involves the US, Japan, and several other countries. The drill is aimed at testing the ability of the participating countries to detect and track threats to space-based assets.



**Link:** <https://www.jcs.mil/News-Events/Press-Releases/2025/07/2501-japan-joins-multinational-space-defense-drill>

## REGULATION



### New NIST Meta-Framework aims to bolster supply chain integrity across US manufacturing, improve traceability gaps

The U.S. National Institute of Standards and Technology (NIST), through its National Cybersecurity Center of Excellence (NCCoE), has released the second public draft of NIST Internal Report 8536, Supply Chain Traceability: Manufacturing Meta-Framework. The effort supports U.S. manufacturers in securing their supply chains by developing a reference implementation that demonstrates how to exchange component traceability data securely across distributed ecosystems.

**#SupplyChain #NIST**



**Link:** <https://industrialcyber.co/manufacturing/new-nist-meta-framework-aims-to-bolster-supply-chain-integrity-across-us-manufacturing-improve-traceability-gaps/>



The Ministry of Defense has confirmed the successful test of high altitude balloon capable of conducting intelligence surveillance and reconnaissance 1000 meters from the atmosphere. The tests conducted until the year in 2008 have been under Project 4000, such a reference in the development of the next, long endurance surveillance and reconnaissance balloons for the defense. [Read more](#)

A small quantum sensor that measures gravity changes by detecting variations in the local time of falling atoms has been used to a test of its first commercial design at Australia's first quantum computing facility. The sensor is a dual gravimeter, a device developed by Australia company Q-CTRL, and could reach the market in late 2020. During the tests conducted the first Australia-based quantum computing centre, the researchers, the code was able to integrate the 140 hours without any errors into the continuous processing system. **Quantum Networks**

## MARKET & COMPETITION



Intel Satellite Technology Inc., a worldwide leader in satellite communications technology, solutions and services, announced today its delivery of Intel® Satellite to the U.S. military. Intel® Satellite has been awarded a contract valued at over \$100 million to supply Intel® Satellite for the military. Integration of satellite communication systems and services, delivered in the form of mobile

## MARKET & COMPETITION



### Deloitte's strategic investment in Orbital groups satellite constellation growth and sustainable commercialization of space satellite space technology

Deloitte today, a company that focuses on developing and selling technology, life, and food solutions including hardware and software products, announced a strategic investment in Orbital Group, the satellite constellation provider of its space company. Deloitte International Holding Ltd, a holding group, pharmaceutical, technology, and consulting, the investment aims to fuel the expansion of Orbital's low earth orbit (LEO) satellite constellation and fuel the commercialization of its space technology and satellite constellation. The announcement follows the signing of a strategic partnership between Deloitte and Orbital, the holding company space technology firm. Other reporting Orbital group constellation growth. **Read More**



### Deloitte launches cyber defense payload for satellites

Deloitte announced Silent Shield on July 30, explaining it is an out-of-band defensive cyber operations (DCO) payload designed to provide cyber analytics and anomaly detection. It can be deployed as a software-only payload, or as a hardware payload with dedicated compute, memory storage, and communications. Deloitte explained Silent Shield uses a one-way diode to gain visibility across the space vehicle, without being visible to adversaries or introducing additional risks to the spacecraft. **#SilentShield #Cybersecurity**



**Link:** <https://www.satellitetoday.com/cybersecurity/2025/07/30/deloitte-launches-cyber-defense-payload-for-satellites/>

### Space Force picks 3 firms to develop and test satellite communication

Space Force is selecting a major satellite communication program, the Space Force announced contracts with three firms to develop and test satellite communication programs. The program is designed to provide satellite communication capabilities to the Department of Defense. The program is designed to provide satellite communication capabilities to the Department of Defense. The program is designed to provide satellite communication capabilities to the Department of Defense. **Read More**



### Space Force picks 3 firms to develop and test satellite communication

### Deloitte enters next phase of LEO Silent Shield satellite constellation growth and sustainable commercialization of space satellite space technology

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### Space and Technology Partnership in Collaboration on Next-Gen LEO Constellation for NATO and Allied Defense Applications

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### Space selected to deliver cyber generation capabilities for US government cloud data centers

Space selected to deliver cyber generation capabilities for US government cloud data centers. Space selected to deliver cyber generation capabilities for US government cloud data centers. Space selected to deliver cyber generation capabilities for US government cloud data centers. **Read More**



### Space selected to deliver cyber generation capabilities for US government cloud data centers

## THREAT INTELLIGENCE

### Russia's new jammer increases GPS interference as Estonia's countermeasures

A new Russian signal jammer, which interferes with border-to-border GPS interference and does not require an internet connection, has been detected by the Estonian Consumer Protection and Technical Regulatory Authority (TTJA) and the Estonian Border Guard.

**Link:** <https://news.err.ee/1609759581/damage-from-russia-s-gps-jamming-amounts-to-over-500-000-estonia-says>



### From orbit to orbit: Space, cyber threats, and the race to secure our future

From monitoring drought conditions and managing forests to delivering broadband to the remote and bordering areas, the use of the space technology is growing rapidly. It is not just about the satellite itself, but also the ground infrastructure, the network, and the data. The race to secure our future is not just about the satellite itself, but also the ground infrastructure, the network, and the data.

**Reported by:** [Name]

**Link:** <https://www.cyberinflight.com/news/2025/07/29/from-orbit-to-orbit-space-cyber-threats-and-the-race-to-secure-our-future>

### The final frontier of cyberwarfare is now in space

In the space where borders are not defined and where there are no physical barriers, there are no physical barriers. The final frontier of cyberwarfare is now in space. It is not just about the satellite itself, but also the ground infrastructure, the network, and the data.

**Reported by:** [Name]

**Link:** <https://www.cyberinflight.com/news/2025/07/29/the-final-frontier-of-cyberwarfare-is-now-in-space>

### GPS jamming extends to low earth orbit as Portugal moves to bolster constellation

The jamming of GPS signals, which has been in the news for some time, is now extending to low earth orbit. Portugal is moving to bolster its constellation of satellites to protect its borders and its interests in the space.

**Link:** <https://www.cyberinflight.com/news/2025/07/29/gps-jamming-extends-to-low-earth-orbit-as-portugal-moves-to-bolster-constellation>



### Chinese researchers suggest launch and orbiting to counter Russian satellite constellation

Chinese researchers have suggested a new way to counter Russian satellite constellation. They propose launching a constellation of satellites into orbit, which would be able to track and identify Russian satellites. This is a new way to counter Russian satellite constellation.

**Link:** <https://www.cyberinflight.com/news/2025/07/29/chinese-researchers-suggest-launch-and-orbiting-to-counter-russian-satellite-constellation>



### Damage from Russia's GPS jamming amounts to over €500k Estonia says

Satellite navigation jamming by Russia has caused more than half a million euros worth of damage in the last three months, Estonian authorities said on July 31. Russia also tries to take over the Estonian border guard's surveillance drones flying on the border. Officials from the Ministry of the Interior, the Police and Border Guard Board (PPA), and Consumer Protection and Technical Regulatory Authority (TTJA) gave an overview of the signal disruptions and Estonia's countermeasures. **#GPSJamming #Damage**

**Link:** <https://news.err.ee/1609759581/damage-from-russia-s-gps-jamming-amounts-to-over-500-000-estonia-says>



## TRAINING & EDUCATION

### USAF computer science center offers new HADR recognition for cybersecurity education

The USAF computer science center offers a new HADR recognition for cybersecurity education. This is a new way to recognize and reward those who have made significant contributions to the field of cybersecurity education.

**Link:** <https://www.cyberinflight.com/news/2025/07/29/usaf-computer-science-center-offers-new-hadr-recognition-for-cybersecurity-education>





Join us on July 30th at 9 AM PT for the 'Cybersecurity Solutions for the Satellite Industry' webinar. As the industry leader in space-grade cybersecurity, wolfSSL products are deployed across satellites, delivery / rocket systems, and ground stations. Our software provides lightweight cryptographic and (D)TLS solutions optimized for satellite and aerospace systems. wolfSSL solutions also feature robust quantum-resistant cryptography, FIPS 140-3 certification, and CNSA 2.0 compliance.



**Link:** <https://www.wolfssl.com/live-webinar-cybersecurity-solutions-for-the-satellite-industry/>



## TRAINING & EDUCATION

**Interference analysis of Russian short message on GPS L1 receiver and mitigation based on extended hybrid detection algorithm**

The Russian Short Message Service (SMS) L1/L2 user equipment receiver signals in the frequency range of 1575.42 MHz, which is adjacent to the GPS L1/L2 frequency range (1575.42 MHz), causing frequency band overlap. This band overlap causes signal interference, making it challenging to mitigate. To ensure the robustness of GPS L1/L2 receiver performance, it is essential to systematically analyze the impact of SMS L1/L2 and develop targeted mitigation methods.

**Pages 1-10**

**Link:** [https://www.researchgate.net/publication/381111111](#)

**Podcast: Why Are Cybersecurity Skills Missing For Aerospace Engineers?**

In cooperation between the United States and aerospace nations worldwide, cybersecurity skills for aerospace and defense are being added to the aerospace curriculum as well as programs, MIT and UC Berkeley, and other leading universities. CyberInflight is a leading provider of aerospace cybersecurity training. Explore the value of the cybersecurity threat, the cyber threat landscape, and the cybersecurity threat landscape.

**Link:** [https://www.cyberinflight.com/podcast/why-are-cybersecurity-skills-missing-for-aerospace-engineers](#)



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