



# SPACE CYBERSECURITY WEEKLY WATCH

Week 44

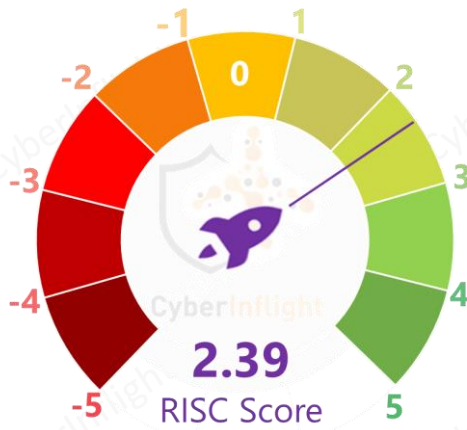
October 29 – November 4, 2024

Timeframe: Weekly  
# of articles identified: 23  
Est. time to read: 45 minutes

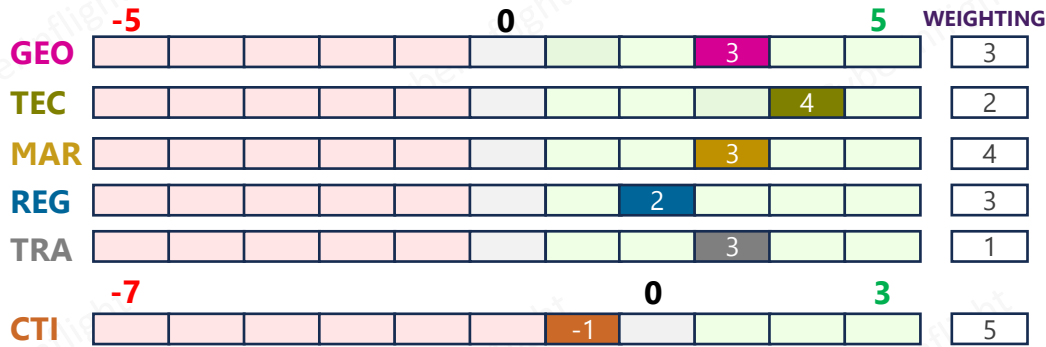
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

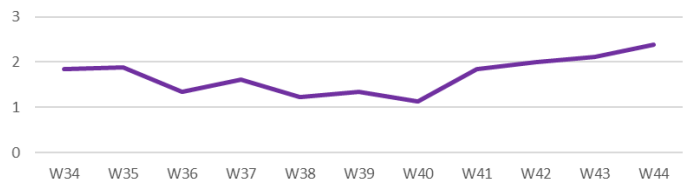
## RISC Score Assessment



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



## RISC Score Evolution



↑ This week's RISC score is 2.39, reflecting an increase from the previous week, largely driven by news on technological innovation and positive developments in threat intelligence.

On the geopolitical front, the Space Information Sharing and Analysis Center (Space ISAC) is bolstering its cyber-threat intelligence operations with an expanded network that includes partnerships with key UK stakeholders. This collaborative effort aims to provide real-time alerts and intelligence-sharing to protect critical space infrastructure in both the US and the UK. On the technological side, Safran's new Vision navigation system has achieved a significant breakthrough by developing a jam-proof technology that promises enhanced navigation reliability. This innovation is particularly crucial for military and aerospace applications, where navigation integrity is critical. The system's robust design ensures it can withstand jamming attempts, providing accurate and uninterrupted navigation data. On the market front, the Occitanie region in France has just been selected to host one of the five Maisons du quantique (Quantum Houses) launched by the French government. This ambitious project aims to establish quantum internet via satellite, positioning Occitanie as a leader in this cutting-edge field. On the threat intel side, the US Space Force has restructured its operations with the launch of new Mission Deltas focused on improving Space Situational Awareness (SSA). On the regulatory front, Japan is proposing a new cybersecurity bill aimed at fortifying its critical infrastructure against increasing cyber-threats, particularly from state actors. The legislation would empower the government to set mandatory cybersecurity standards and regulations for industries, particularly those managing essential services such as utilities and telecommunications. Lastly, researchers at ETH Zurich have conducted an extensive study by trawling hacker forums, uncovering critical information about planned and past cyber attacks targeting space infrastructure.

# GEOPOLITICS

## How can US national defense strategy extend to cyber space threat

The US national defense strategy is being updated to include cyber, according to the White House. This is a significant shift, as cyber has been a key focus of US national security for some time. The update is expected to be released in the coming weeks. The strategy will focus on cyber threats, space-based threats, and other emerging threats. It will also address the need for a more integrated approach to national security.

[Link: https://www.defense.gov/Newsroom/News/Article.aspx?ArticleID=291111](#)

## US Space Force warns of 'mass logging' build up of Chinese capabilities

The US Space Force has issued a warning that China is building up its capabilities to conduct mass logging of US satellite communications. This is a significant concern, as it could allow China to intercept and analyze sensitive information. The Space Force is working to improve its capabilities to detect and respond to such threats. This includes developing new technologies and improving its intelligence-gathering capabilities.

[Link: https://www.spaceforce.mil/Newsroom/News/Article.aspx?ArticleID=291111](#)

## ★ Facing growing threats, space industry expands its cyber warding center

The Space Information Sharing and Analysis Center (Space ISAC) is bolstering its cyber threat intelligence operations with an expanded network that includes partnerships with key UK stakeholders. This collaborative effort aims to provide real-time alerts and intelligence-sharing to protect critical space infrastructure in both the US and the UK. As cyber risks to satellites and related assets grow, Space ISAC's enhanced capabilities are expected to improve communication and responsiveness across borders, fostering a cooperative defense approach in the space cybersecurity domain.

#SpaceISAC #UK

**Link:** [https://www.airandspaceforces.com/facing-growing-threats-space-industry-expands-its-cyber-warning-center/?utm\\_source=rss&utm\\_medium=rss&utm\\_campaign=facing-growing-threats-space-industry-expands-its-cyber-warning-center](https://www.airandspaceforces.com/facing-growing-threats-space-industry-expands-its-cyber-warning-center/?utm_source=rss&utm_medium=rss&utm_campaign=facing-growing-threats-space-industry-expands-its-cyber-warning-center)



# THREAT INTELLIGENCE

## How can US national defense strategy extend to cyber space threat

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[Link: https://www.spaceforce.mil/Newsroom/News/Article.aspx?ArticleID=291111](#)

## ★ Space Force stands up new mission Deltas to oversee SSA, missile tracking

US Space Force has restructured its operations with the launch of new Mission Deltas focused on improving Space Situational Awareness (SSA). These units, designated as Mission Delta 2 and Mission Delta 4, are tasked with monitoring space activity and addressing potential threats. This restructuring underscores the Space Force's commitment to maintaining a clear, real-time picture of the space domain as adversarial activities increase in orbit. #USSF #SSA

**Link:** <https://executivegov.com/2024/11/space-force-new-integrated-mission-deltas/>





# MARKET & COMPETITION

## Autonomous AI: The military satellite program used and delivered

Autonomous AI is a key element of the military satellite program, which is designed to provide critical intelligence and communication capabilities. The program is being developed by the US military and is expected to be operational in the near future. The program is being developed by the US military and is expected to be operational in the near future.



[Link: https://www.defence.gov/News/News-Story.aspx?NewsID=2544&Title=Autonomous-AI-The-military-satellite-program-used-and-delivered](#)

## Autonomous Partners with Space Force for US military AI satellite program

The US military is partnering with Space Force to develop an AI satellite program. The program is designed to provide critical intelligence and communication capabilities. The program is being developed by the US military and is expected to be operational in the near future.



[Link: https://www.defence.gov/News/News-Story.aspx?NewsID=2544&Title=Autonomous-Partners-with-Space-Force-for-US-military-AI-satellite-program](#)

## Space Force to participate in 2024 Cyber2024 exercises led by USMC

Space Force is participating in 2024 Cyber2024 exercises led by the USMC. The exercises are designed to test the resilience of the space force and its ability to operate in a contested environment. The exercises are being conducted in the near future.



[Link: https://www.defence.gov/News/News-Story.aspx?NewsID=2544&Title=Space-Force-to-participate-in-2024-Cyber2024-exercises-led-by-USMC](#)

## AI satellite program used and delivered by Space Force

The AI satellite program is being used and delivered by Space Force. The program is designed to provide critical intelligence and communication capabilities. The program is being developed by the US military and is expected to be operational in the near future.



[Link: https://www.defence.gov/News/News-Story.aspx?NewsID=2544&Title=AI-satellite-program-used-and-delivered-by-Space-Force](#)

## ★ L'Occitanie, tête de pont de l'internet quantique par satellite (Trad: Occitanie Region in France leads quantum internet by satellite initiative)

The Occitanie region in France is spearheading an ambitious project to establish quantum internet via satellite, positioning itself as a leader in this cutting-edge field. This initiative aims to develop a secure, high-speed quantum communication network that leverages satellite technology. By focusing on quantum internet, Occitanie is set to drive significant advancements in cybersecurity and data transmission, ensuring the region remains at the forefront of technological innovation. **#QuantumInternet #Occitanie**



**Link:** <https://toulouse.la Tribune.fr/entreprises/business/2024-10-28/l-occitanie-tete-de-pont-de-l-internet-quantique-par-satellite-1009661.html>

# TECHNOLOGY

## ★ Unaffected by jamming, the revolutionary French navigation system VISION delivers on its promises

Safran's new Vision navigation system has achieved a significant breakthrough by developing a jam-proof technology that promises enhanced navigation reliability. This innovation is particularly crucial for military and aerospace applications, where navigation integrity is critical. The system's robust design ensures that it can withstand jamming attempts, providing accurate and uninterrupted navigation data. Safran's achievement is a major step forward in secure navigation technology. **#JamProofNavigation #Safran**



**Link:** <https://indiandefencereview.com/french-vision-navigation-system-jam-proof-breakthrough-delivers-promises/>

## Quantum satellite using Space Force Space Data Sharing

The quantum satellite is being used by Space Force for Space Data Sharing. The satellite is designed to provide critical intelligence and communication capabilities. The satellite is being developed by the US military and is expected to be operational in the near future.



[Link: https://www.defence.gov/News/News-Story.aspx?NewsID=2544&Title=Quantum-satellite-using-Space-Force-Space-Data-Sharing](#)



# TECHNOLOGY

## Successful Space Assessment (SA) Systems' will give US Coast Guard (CG) technology

The US Coast Guard has announced a new generation of Coast Guard (CG) Assessment (SA) Systems' will give US Coast Guard (CG) technology designed to provide critical capabilities and enhance capabilities for which competitors. The technology offers improved performance against various threats, ensuring reliable performance in hostile environments, ensuring effectiveness in various scenarios. The SA System will be used to assess space capabilities across the US Coast Guard's operations. The technology will be used to assess the system's readiness for deployment, making it important for the Coast Guard to assess competitors' space capabilities. #SpaceAssessment #CGTechnology

Link: [https://www.uscg.mil/News/News-Details.aspx?ID=12345](#)

## Space-based satellite communication system for US Coast Guard (CG) technology

The US Coast Guard is developing a satellite communication system (SCS) to provide critical capabilities in US Coast Guard operations. The SCS will be used to assess space capabilities across the US Coast Guard's operations. The technology will be used to assess the system's readiness for deployment, making it important for the Coast Guard to assess competitors' space capabilities. #SpaceCommunication #CGTechnology

Link: [https://www.uscg.mil/News/News-Details.aspx?ID=12346](#)

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Link: [https://www.uscg.mil/News/News-Details.aspx?ID=12347](#)

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Link: [https://www.uscg.mil/News/News-Details.aspx?ID=12348](#)

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Link: [https://www.uscg.mil/News/News-Details.aspx?ID=12349](#)

## Space-based satellite communication system for US Coast Guard (CG) technology

# REGULATION



## Will Japan's cybersecurity bill become a reality?

Japan is proposing a new cybersecurity bill aimed at fortifying its critical infrastructure against increasing cyber threats, particularly from state actors. The legislation would empower the government to set mandatory cybersecurity standards and regulations for industries, particularly those managing essential services such as utilities and telecommunications. This regulatory push reflects Japan's growing concern about digital vulnerabilities, especially with upcoming international events that could attract cyber adversaries. If passed, the bill would be a landmark shift in Japan's approach to cybersecurity and infrastructure resilience. #CyberSecurityBill #CriticalInfra

Link: <https://osintcorp.net/will-japan-cybersecurity-bill-become-a-reality/>



# TRAINING & EDUCATION

Development status and challenges of anti-spoofing technology of GNSS/IRIS integrated systems

This research is an anti-spoofing technology for GNSS/IRIS integrated systems which are used widely in both defense and civilian sectors. These developments aim to protect military and civilian operations, which are increasingly common threats, against spoofing and jamming attacks. The research focuses on the development of anti-spoofing technology, including the design of anti-spoofing algorithms, the development of anti-spoofing hardware, and the development of anti-spoofing software.

[Anti-spoofing technology for GNSS/IRIS integrated systems](#)



## Trawling hacker forums uncovers crucial information on space cyber attacks

Researchers at ETH Zurich have conducted an extensive study by trawling hacker forums, uncovering critical information about planned and past cyber attacks targeting space infrastructure. This investigation highlights how cybercriminals share techniques, vulnerabilities, and tools specific to space systems on these forums. The insights gathered are invaluable for developing more robust cybersecurity defenses **#SpaceCyberAttack #ResearchPaper**

**Link:** <https://interactive.satellitetoday.com/via/november-2024/trawling-hacker-forums-uncovers-crucial-information-on-space-cyber-attacks>

Why space infrastructure needs better protection

The article discusses the need for increased protection in space infrastructure, along the lines of the space force and the space force's mission. The article discusses the need for increased protection in space infrastructure, along the lines of the space force and the space force's mission. The article discusses the need for increased protection in space infrastructure, along the lines of the space force and the space force's mission.

[Why space infrastructure needs better protection](#)

Cyberattacks on critical infrastructure: a rising threat level

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[Cyberattacks on critical infrastructure: a rising threat level](#)

*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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