



# SPACE CYBERSECURITY WEEKLY WATCH

Week 37

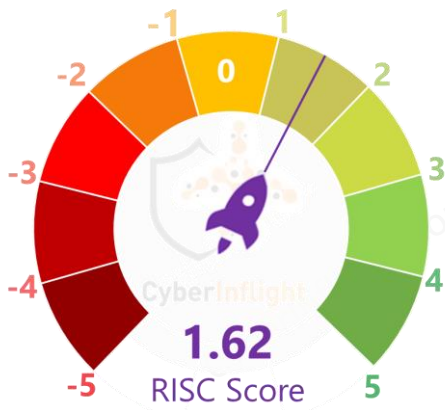
September 10 - 16, 2024

Timeframe : Weekly  
# of articles identified : 35  
Est. time to read : 75 minutes

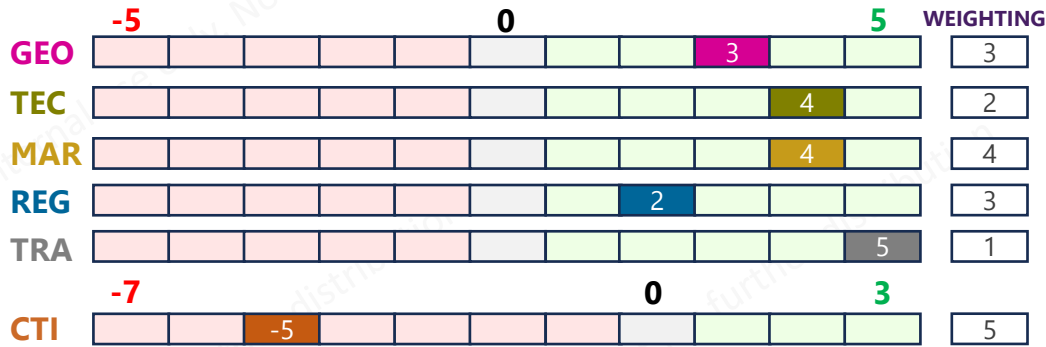
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

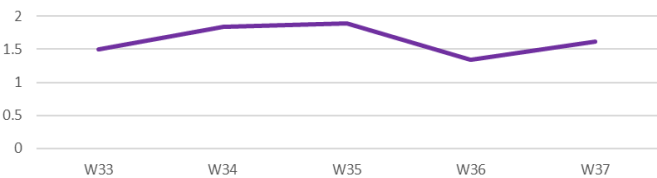
## RISC Score Assessment



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



## RISC Score Evolution



↑ This week's RISC score is 1.62, an increase from last week, mainly due to a positive market sentiments.

On the geopolitical front, US is facing a potential threat to its global leadership in quantum computing as China accelerates its development in this field. The article discusses how commercialization weaknesses, especially in Quantum Key Distribution (QKD) and quantum computing (QC), could undermine US dominance. On the technological side, France, in collaboration with Unseenlabs, achieved a global first by testing laser communication technology for secure satellite downlinks. This technology offers an unprecedented level of communication security, essential for military and commercial sectors, highlighting France's growing leadership in space communication advancements. On the market front, Airbus and Thales, two major aerospace companies in France, are submitting competing bids for the IRIS Constellation project, which aims to enhance Europe's independent satellite communication capabilities. This competition underscores Europe's push for greater autonomy in space communications. On the regulatory front, the Cybersecurity and Infrastructure Security Agency has published its risk and vulnerability assessment for FY23, outlining critical areas that require improved cybersecurity measures. The report offers insights into how various sectors can enhance resilience against potential cyber threats. On the threat intel side, a newly discovered cyberattack, dubbed RAMBO, can exploit the RAM of air-gapped computers to extract sensitive information. Air-gapped computers are isolated from external networks for security, but this attack bypasses those defenses by manipulating the electromagnetic signals emitted by RAM. Lastly, JammerTest 2024 in Norway is set to simulate GNSS (Global Navigation Satellite System) interference scenarios, focusing on training for navigation disruptions caused by jamming.



# GEOPOLITICS

## Space to Launch Satellites (15), Europe's alternative to US GPS

Space is set to launch the satellite (15) satellite, which is part of Europe's satellite navigation system, Galileo. The system is designed to provide accurate positioning, navigation, and timing services. The system is designed to provide accurate positioning, navigation, and timing services. The system is designed to provide accurate positioning, navigation, and timing services.

**Link:** [https://www.space.com/54111-europe-launches-galileo-satellite](#)



## Space Technology is generating insights from Finland's defense and aerospace industries

The article discusses how commercialization weaknesses, especially in Quantum Key Distribution (QKD) and quantum computing (QC), could undermine US dominance. With national security at stake, the need for government support, industry investment, and regulatory frameworks to accelerate quantum technologies is critical.

**Link:** [https://www.space.com/54111-europe-launches-galileo-satellite](#)



## US quantum computing lead at risk due to commercialization challenges

US is facing a potential threat to its global leadership in quantum computing as China accelerates its development in this field. The article discusses how commercialization weaknesses, especially in Quantum Key Distribution (QKD) and quantum computing (QC), could undermine US dominance. With national security at stake, the need for government support, industry investment, and regulatory frameworks to accelerate quantum technologies is critical.

**#US #QuantumComputing**

**Link:** <https://www.csoonline.com/article/3513771/us-quantum-computing-lead-over-china-threatened-by-weakness-in-commercialization.html>



## India's cybersecurity in space critical infrastructure at risk

India is working to address its security issues with satellite navigation and other space-based services. The article highlights the need for government support, industry investment, and regulatory frameworks to accelerate quantum technologies is critical.

**Link:** [https://www.space.com/54111-europe-launches-galileo-satellite](#)



# TECHNOLOGY



## Boeing announces quantum satellite test for 2026

Boeing has announced plans to conduct a quantum communication satellite test by 2026. This test will explore quantum key distribution (QKD) technology for secure communications in space. The satellite will focus on quantum entanglement, offering an advanced method for secure data transmission that is nearly impossible to intercept. The initiative marks Boeing's foray into quantum communications, with potential applications in national security and commercial industries.

**#Boeing #QuantumSatellite**

**Link:** <https://newspaceconomy.ca/2024/09/10/boeing-announces-quantum-satellite-test-for-2026/>



## Space-based quantum satellite security solutions for space communication

The article discusses how commercialization weaknesses, especially in Quantum Key Distribution (QKD) and quantum computing (QC), could undermine US dominance. With national security at stake, the need for government support, industry investment, and regulatory frameworks to accelerate quantum technologies is critical.

**Link:** [https://www.space.com/54111-europe-launches-galileo-satellite](#)



## Boeing tests quantum sensors for enhanced GPS accuracy

The article discusses how commercialization weaknesses, especially in Quantum Key Distribution (QKD) and quantum computing (QC), could undermine US dominance. With national security at stake, the need for government support, industry investment, and regulatory frameworks to accelerate quantum technologies is critical.

**Link:** [https://www.space.com/54111-europe-launches-galileo-satellite](#)



# TECHNOLOGY

## US Launches QED-1 to Pioneer Quantum Internet in Space

The US has launched the QED-1 mission to explore the potential of quantum internet using space technology. The mission is a joint effort between the US and the UK, marking a significant step in the development of quantum communication technology.



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## US Air Force Advances Space and Cyber Technologies at Annual Conference

The US Air Force has held its annual conference on space and cyber technologies. The event highlights the latest advancements in these fields and the role of the Air Force in maintaining national security in the space and cyber domains.



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## France Tests Space Lasers for Secure Satellite Communication in a World First

France has achieved a world first by testing laser communication technology for secure satellite downlinks. This technology offers a higher level of security and bandwidth compared to traditional radio frequency communication.



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## Space Force 60th Anniversary: A Milestone in Space Defense and Security

The US Space Force has celebrated its 60th anniversary. This milestone marks the evolution of the organization from a part of the Air Force to an independent branch, reflecting the growing importance of space in national defense and security.



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#LaserCommunication #France

**Link:** <https://www.defensenews.com/global/europe/2024/09/13/france-tests-space-lasers-for-secure-satellite-downlink-in-world-first/>



# MARKET & COMPETITION

**SDA Collaborates with DARPA to Enhance SDA Capabilities and Data to Support Space Program**  
The Space Development Agency (SDA) is collaborating with the Defense Advanced Research Projects Agency (DARPA) to enhance SDA capabilities and data to support the agency's mission. The collaboration focuses on improving SDA's ability to manage and analyze data from its satellites and ground stations.



**SDA Announces New Contract for Space Development Agency**  
The Space Development Agency (SDA) has announced a new contract for the development of a space-based communication system. The contract is valued at \$100 million and will be awarded to a team led by Lockheed Martin.



**SDA Awards \$100 Million Contract to Lockheed Martin**  
The Space Development Agency (SDA) has awarded a \$100 million contract to Lockheed Martin for the development of a space-based communication system. The contract is part of SDA's effort to build a robust and resilient space-based communication network.

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## ★ Xenesis Wins SDA Contract for Optical Satellite Terminals

Xenesis has secured a follow-up contract with the Space Development Agency (SDA) to develop optical communication terminals for satellites. These terminals will play a key role in the Proliferated Warfighter Space Architecture (PWSA), enhancing data transmission capabilities in military satellite networks. **#OpticalSatCom #MilitarySatellites**

**Link:** <https://www.satellitetoday.com/government-military/2024/09/12/xenesis-wins-sda-follow-up-deal-for-optical-terminals/>



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# THREAT INTELLIGENCE



## RAMBO attack exploits RAM in air-gapped computers to steal data

A newly discovered cyberattack, dubbed RAMBO, can exploit the RAM of air-gapped computers to extract sensitive information. Air-gapped computers are isolated from external networks for security, but this attack bypasses those defenses by manipulating the electromagnetic signals emitted by RAM. RAMBO poses a significant threat to highly secure environments like government, military, and financial sectors that rely on air-gapped systems for data protection. **#RAMBOAttack #AirGappedSystems**

**Link:** <https://www.techradar.com/pro/security/rambo-attack-uses-ram-in-air-gapped-computers-to-steal-data>



## Latest space threat fact sheet highlights Space warfare preparedness

US Space Force (USSF) released an updated space threat fact sheet, outlining the growing threats to space systems, including cyberattacks and anti-satellite weapons. The document stresses the need for preparedness as space becomes a critical domain for military engagement. **#USSF #SpaceWarfare**

**Link:** <https://www.andrewerickson.com/2024/09/latest-space-threat-fact-sheet-from-headquarters-space-force-intelligence/>





## TRAINING & EDUCATION

### ★ Norway's GNSS JammerTest 2024: Preparing for navigation interference

JammerTest 2024 in Norway is set to simulate GNSS (Global Navigation Satellite System) interference scenarios, focusing on training for navigation disruptions caused by jamming. The exercise is critical for defense and civil aviation sectors to prepare for GPS outages, ensuring operational resilience. By testing mitigation techniques, participants gain insights into GNSS vulnerabilities and effective countermeasures. **#GNSSJamming #Training**



**Link:** <https://insidegnss.com/jammertest-2024-on-track-in-norway/>



## REGULATION

### ★ CISA releases risk and vulnerability assessment for FY23

The Cybersecurity and Infrastructure Security Agency has published its risk and vulnerability assessment for FY23, outlining critical areas that require improved cybersecurity measures. The report offers insights into how various sectors can enhance resilience against potential cyber threats. **#CISA #VulnerabilityAssessment**



**Link:** <https://www.cisa.gov/news-events/alerts/2024/09/13/cisa-releases-analysis-fy23-risk-and-vulnerability-assessments>

*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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