



SPACE CYBERSECURITY WEEKLY WATCH

Week 40

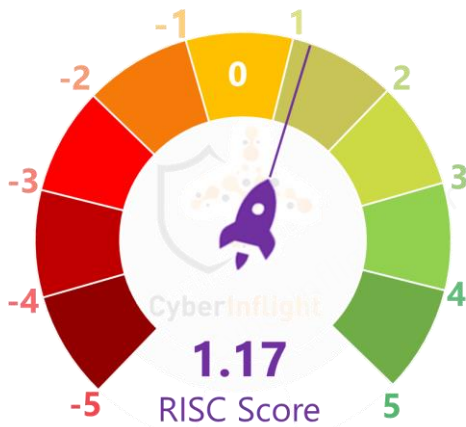
October 1 - 7, 2024

Timeframe: Weekly
of articles identified: 33
Est. time to read: 75 minutes

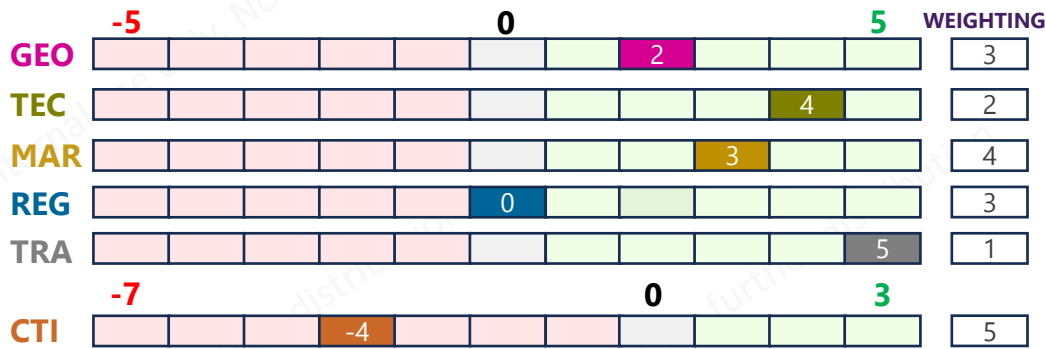
Articles, company's communications, whitepapers, academic works, podcast, and sources not to be missed on the topic of space cybersecurity over a specified timeframe.

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

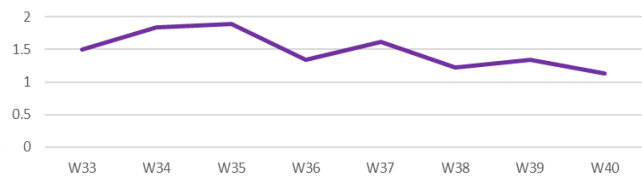
RISC Score Assessment



Overview & Resilience Index for Space Cybersecurity (RISC)



RISC Score Evolution



This week's RISC score stands at 1.17, a decrease from the previous week. The decline is primarily attributed to the absence of regulatory news and a slowdown in market activity.

On the geopolitical front, the first-ever Czech-Indian Space Industry Day was concluded with a focus on strengthening ties between the two nations in the space sector. Optokon Group and ARCON led discussions on market growth, innovation, and the potential for future partnerships. On the technological side, BAE Systems has rolled out its RAD510 software development unit, a highly advanced platform tailored for critical space missions. Designed to operate in the harshest space environments, this software will enhance satellite processing power, ensuring operational resilience and the ability to support missions in areas such as planetary defense and space exploration. On the market front, All Space has secured \$44m in funding to launch its first terminal to improve orbit connectivity. This terminal is expected to play a pivotal role in enhancing space communication and establishing stronger, more reliable connections in space networks. On the threat intel side, NASA has reportedly fallen victim to the Stormous ransomware, highlighting the escalating risks posed by cyber-threats to space agencies. The attack emphasizes the vulnerabilities in NASA's cybersecurity infrastructure, prompting a reassessment of protective measures to safeguard sensitive information and operational integrity. Lastly, a podcast discusses how NASA has implemented an extensive orbit cybersecurity training program aimed at enhancing the agency's preparedness against cyber-threats.



GEOPOLITICS

★ Czech-Indian space industry day expands global collaboration

The first-ever Czech-Indian Space Industry Day concluded with a focus on strengthening ties between the two nations in the space sector. Optokon Group and ARCON led discussions on market growth, innovation, and the potential for future partnerships. As the global space market evolves, collaborations like these are paving the way for new opportunities in both established and emerging space economies. **#SpaceCollaboration #GlobalMarkets**

Link: <https://spacewatchafrica.com/successful-conclusion-of-the-first-czech-indian-space-industry-day/>



TECHNOLOGY

USA Space & Defense activities will get boosted by 2025-2030 investments

The administration expects US Space & Defense activities will get a significant boost in 2025-2030 as the budget for space and defense activities increases. The budget will provide more resources for space exploration and defense activities, including the development of new technologies and the expansion of the space program.

Link: [https://www.space.com/54888-us-space-defense-activities-will-get-boosted-by-2025-2030-investments](#)



European space activities will get 20% boost in 2025-2030

European space activities will get a 20% boost in 2025-2030 as the budget for space activities increases. The budget will provide more resources for space exploration and defense activities, including the development of new technologies and the expansion of the space program.

Link: [https://www.space.com/54889-european-space-activities-will-get-20-percent-boost-in-2025-2030](#)



★ BAE Systems unveils RAD510 software for next-gen space missions

BAE Systems has rolled out its RAD510 software development unit, a highly advanced platform tailored for critical space missions. Designed to operate in the harshest space environments, this software will enhance satellite processing power, ensuring operational resilience and the ability to support missions in areas such as planetary defense and space exploration. **#SpaceMissions #Innovation**

Link: <https://news.satnews.com/2024/10/06/bae-systems-rad510-software-development-unit-available-to-support-critical-space-missions/>



European Space Agency (ESA) is planning defense mission with advanced systems

ESA is planning a defense mission with advanced systems, including the development of new technologies and the expansion of the space program. The mission will provide more resources for space exploration and defense activities, including the development of new technologies and the expansion of the space program.

Link: [https://www.space.com/54890-european-space-agency-esa-is-planning-defense-mission-with-advanced-systems](#)



Building European space capabilities through hybrid satellite communication

Building European space capabilities through hybrid satellite communication, including the development of new technologies and the expansion of the space program. The mission will provide more resources for space exploration and defense activities, including the development of new technologies and the expansion of the space program.

Link: [https://www.space.com/54891-building-european-space-capabilities-through-hybrid-satellite-communication](#)



China launches new satellite constellation

China launches a new satellite constellation, including the development of new technologies and the expansion of the space program. The mission will provide more resources for space exploration and defense activities, including the development of new technologies and the expansion of the space program.

Link: [https://www.space.com/54892-china-launches-new-satellite-constellation](#)





TECHNOLOGY

Deep Space Operations & enabled hyperoptimal communication with Space

The Deep Space Operations (DSO) project is a key element of NASA's Deep Space Network (DSN) modernization effort. The DSO project is designed to enhance the DSN's ability to communicate with spacecraft in deep space, including Mars, Jupiter, Saturn, Uranus, and Neptune. The DSO project is a multi-phase effort that includes the development of new ground stations, the deployment of new antennas, and the implementation of new software and hardware. The DSO project is expected to be completed by 2030.



ESA's Space Data Relay System (SDRS) will enable high-speed data transfer between Earth and spacecraft

Enabling enhanced space system cloud capabilities

ESA is developing a new generation of space systems that will be able to operate in a cloud environment. This will allow space systems to be more flexible and adaptable to changing requirements. The new systems will be able to share data and resources across different space systems, allowing for more efficient use of resources. This will also allow for more rapid development and deployment of new space systems. The new systems will be able to operate in a cloud environment, allowing for more flexible and adaptable to changing requirements.



ESA's Space Data Relay System (SDRS) will enable high-speed data transfer between Earth and spacecraft

Space systems use distributed computing for DSO

ESA is developing a new generation of space systems that will be able to operate in a distributed computing environment. This will allow space systems to be more flexible and adaptable to changing requirements. The new systems will be able to share data and resources across different space systems, allowing for more efficient use of resources. This will also allow for more rapid development and deployment of new space systems. The new systems will be able to operate in a distributed computing environment, allowing for more flexible and adaptable to changing requirements.



ESA's Space Data Relay System (SDRS) will enable high-speed data transfer between Earth and spacecraft

Space systems use joint processing technologies against DSO

ESA is developing a new generation of space systems that will be able to operate in a joint processing environment. This will allow space systems to be more flexible and adaptable to changing requirements. The new systems will be able to share data and resources across different space systems, allowing for more efficient use of resources. This will also allow for more rapid development and deployment of new space systems. The new systems will be able to operate in a joint processing environment, allowing for more flexible and adaptable to changing requirements.



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ESA's Space Data Relay System (SDRS) will enable high-speed data transfer between Earth and spacecraft



NASA's laser communication breaks distance record

NASA has achieved a groundbreaking milestone by setting a new distance record for laser communications in space through its Deep Space Optical Communications (DSOC) project. This achievement was made possible by successfully transmitting data over a distance of 1.2 million kilometers (about 746,000 miles) from a spacecraft in deep space back to Earth. The DSOC technology significantly enhances data transmission capabilities, allowing for much larger amounts of information to be sent back from deep space missions compared to traditional radio frequency systems.



#NASA #LaserCommunication

Link: <https://scienceblog.com/548345/nasas-laser-communication-breaks-distance-record-paving-way-for-future-space-exploration/>



MARKET & COMPETITION



All Space raises \$44m for first space terminal launch

All Space has secured \$44 million in funding to launch its first terminal, aimed at improving orbit connectivity. This terminal is expected to play a pivotal role in enhancing space communication and establishing stronger, more reliable connections in space networks. **#TechInnovation #OrbitConnectivity**

Link: <https://www.satellitetoday.com/finance/2024/10/03/all-space-raises-44m-to-launch-its-first-terminal/>





TRAINING & EDUCATION

Report of 2024 spending on cybersecurity accelerated steadily
The release of fiscal 2024 spending data shows a significant increase in cybersecurity spending across various agencies, reflecting the growing importance of digital security in government operations. The data indicates a strong commitment to protecting critical infrastructure and sensitive information.



Space agencies discuss 2024 for secure communications
The release of 2024 spending data highlights the growing focus on secure communications in space operations. Agencies are investing in advanced encryption and secure data links to ensure the integrity and confidentiality of information transmitted from orbit.



NASA's orbit cybersecurity training program

A podcast discussing how NASA has implemented an extensive orbit cybersecurity training program aimed at enhancing the agency's preparedness against cyber threats. This initiative focuses on educating personnel about potential vulnerabilities and best practices for maintaining cybersecurity in space operations.



#CybersecurityTraining #SpaceOperations

Link: <https://www.buzzsprout.com/2004238/episodes/15820343>

Building a cybersecurity mindset for space operations
The release of 2024 spending data shows the growing importance of space operations security, highlighting the need for a cybersecurity mindset in all aspects of space mission planning and execution. This involves continuous training and awareness for all personnel involved in space operations.



THREAT INTELLIGENCE

Recent findings group targets of military contractors
A report from the House of Representatives highlights the growing concern over the security of military contractors and their data. The report emphasizes the need for enhanced cybersecurity measures to protect sensitive information and operational capabilities.



Stormous ransomware claims NASA as a victim

The NASA has reportedly fallen victim to the Stormous ransomware, highlighting the escalating risks posed by cyber threats to space agencies. The attack emphasizes the vulnerabilities in NASA's cybersecurity infrastructure, prompting a reassessment of protective measures to safeguard sensitive information and operational integrity.



Link: <https://darkwebinformers.com/stormous-ransomware-claims-nasa-as-a-victim/>

Analysis of the 2024 cyberattacks Cyber threats to the space industry
The release of 2024 spending data shows the growing importance of space operations security, highlighting the need for a cybersecurity mindset in all aspects of space mission planning and execution. This involves continuous training and awareness for all personnel involved in space operations.



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