



SPACE CYBERSECURITY WEEKLY WATCH

Week 7

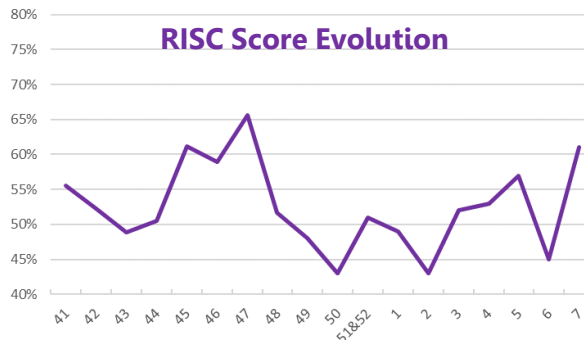
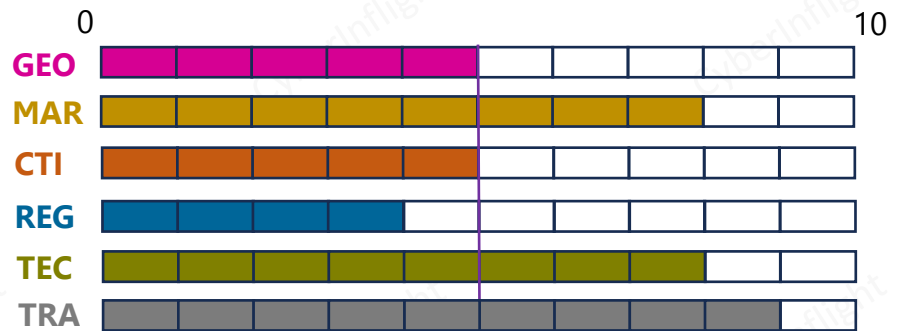
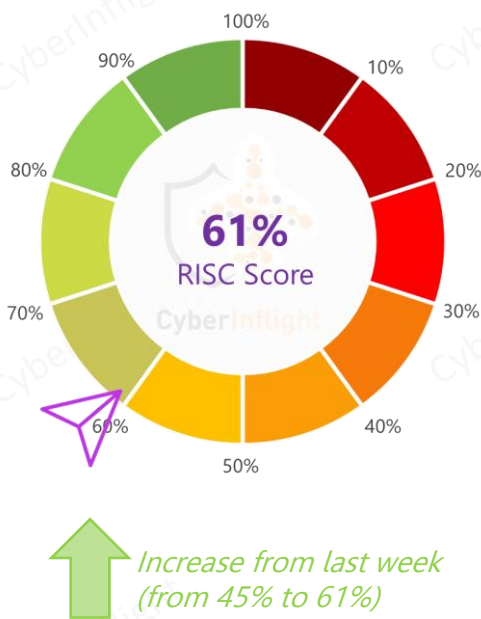
February 13 – 19, 2024

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

Timeframe : Weekly
of articles identified : 29
Est. time to read : 50 minutes

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

Overview & RISC Score



After a rising period since the start of 2024, W6 has shown a decrease & W7 has shown an increase.

This week's RISC Score is 61%. In the news, the U.S. Space Force's top officer says the scale and scope of Russian and Chinese threats to American assets in orbit, including demonstrated abilities to conduct very close proximity operations, is "of paramount concern". Parallely, the FBI and international partners disrupted a network of over 1000 hacked routers controlled by Russia's GRU (Russian military intelligence agency) for cyber operations. On the market front, Thales will provide satellite communications for the F126 German frigates with SurfSAT-L solutions. This system, previous versions of which have been in service with multiple Navies across the world, aims to ensure improved connectivity even under difficult operational conditions. Also, a FINABEL report aiming to decode the EU Space Law (EUSL) came out this week. Meanwhile, the European GNSS system, Galileo, has developed the OSNMA anti-spoofing service, which has recently moved into the final testing phase, which allows secure end-to-end transmission from Galileo satellites to OSNMA-enabled GNSS receivers. Last but not least, the European Union Agency for Cybersecurity (ENISA) explores, in a report, the cybersecurity of Low Earth Orbit (LEO) constellations providing telecommunications services (LEO satcom).



GEOPOLITIC

Space Force's Japan Component Expected to Activate in 2024

The military space officials from Japan and the U.S. said at the 4th Strategic Symposium that they anticipate the U.S. Space Force will stand up its new component in Japan this year. The commander for the new U.S. Space Force's Japan had already been selected, and that individual will be available this summer. #SpaceForce #Japan #Defense

Link: <https://www.defense.com/space-force-japan-component-activated-2024>



Polarsat Electronic Warfare System: Ukraine's Answer to Shaded Drones, Missiles

Polarsat is an EW system developed by Ukraine to counter aerial threats whose commander system is a protection and use of drones. Through its remote sensing, Polarsat might have been successful in countering some of Russia's aerial threats, including the cyber-hacking incidents. #Ukraine #ElectronicWarfare

Link: <https://www.space.com/2024/02/13/polarsat-ukraine>



Threats in space "extremely concerning": Space Force Boss

The U.S. Space Force's top officer says the scale and scope of Russian and Chinese threats to American assets in orbit, including demonstrated abilities to conduct very close proximity operations, is "of paramount concern".

#SpaceForce #ElectronicWarfare

Link: <https://www.twz.com/space/threats-in-space-extremely-concerning-space-force-boss>



Federal lawyer and a BAE Systems employee did business in Russia and Egypt

Spoke, a former federal lawyer and an employee of BAE Systems, have had business with the defense industry abroad. They have sold satellite antennas to Russia, had business meetings in the Middle East and worked with contractors. #BAESystems #Space

Link: <https://www.defense.com/defense-industry-employees-worked-with-russia-egypt>



MARKET & COMPETITION

Spacelink announces distinguished advisory board to propel Quantum Security Solutions

Spacelink, a leading quantum communications company, announces the appointment of four prominent experts to its Advisory Board, each experts in their fields of quantum cryptography, cybersecurity, and business transformation, will contribute their specialized insights, enhancing its position as a global leader in quantum security solutions.

#Spacelink #Quantum

Link: <https://www.spacelink.com/news/2024/02/13/spacelink-announces-distinguished-advisory-board-to-propel-quantum-security-solutions>



Global leader in Quantum safe encryption Argit partners Carahsoft to bring cyber product to the US public sector

Argit, a leader in quantum safe encryption, and Carahsoft announced a partnership. It aims to enable organizations to benefit from Argit's Symmetric Key Agreement Platform, which hardens existing systems up to quantum safe levels.

#Argit #Quantum

Link: <https://www.carahsoft.com/newsroom/2024/02/13/global-leader-in-quantum-safe-encryption-and-argit-partner-carahsoft-to-bring-cyber-product-to-the-us-public-sector>



Thales supplies SurfsAT-L satellite communication solution for F126 German frigates

Thales will provide satellite communications for the F126 frigates with SurfsAT-L solutions. This modernized system, previous versions of which have been in service with multiple Navies across the world, will ensure improved connectivity even under difficult operational conditions. #Thales #Defense

Link: <https://www.thalesgroup.com/en/worldwide/defence/press-release/thales-supplies-surfsat-l-satellite-communication-solution-f126>



India's first indigenous spy satellite set to launch, transforming national security landscape

India is poised to achieve a significant milestone in its space capabilities with the impending launch of its first domestically built spy satellite by a private player. Scheduled to be launched aboard a SpaceX rocket by ISRO, the satellite, codenamed 'Sat-1A', marks a significant step forward in India's quest for indigenous space-based intelligence gathering. #India #Satellite

Link: <https://www.space.com/2024/02/13/india-first-indigenous-spy-satellite-set-to-launch-transforming-national-security-landscape>





MARKET & COMPETITION

Russia Uses Starlink Satellite Tech for Drone Wars in Ukraine

Russian military is leveraging Starlink satellite internet systems through dual-use satellites for use on the battlefield, disrupting tracking systems used by the US. Reports from the early stages of the war with reports that Russian troops were using smartphone calls to communicate sensitive information. #SpaceWarfare

[Link: https://www.space.com/defense/russia-uses-starlink-satellite-tech-for-drone-wars-in-ukraine](#)



THREAT INTELLIGENCE

A cyberattack is launched against Israel's Space database satellites

Russian hacking allegedly affected Israel's space database satellites. #CyberAttack #SpaceWarfare

[Link: https://www.space.com/defense/russian-hacking-against-israel-space-database-satellites](#)



Hacking groups target Israel in coordinated cyberattacks

Hacking groups launched a coordinated cyberattack on Israel, targeting infrastructure and media. While causing temporary disruptions, the attack highlights the increasing nature of cyber warfare and its potential impact on critical infrastructure and government operations. #SpaceWarfare

[Link: https://www.space.com/defense/hacking-groups-target-israel-in-coordinated-cyberattacks](#)



Operation disrupts GRU's hacked router network : a major win in Cyber Warfare

The FBI and international partners disrupted a network of over 1000 hacked routers controlled by Russia's GRU for cyber operations. The incident involved the use of large language models like ChatGPT and targeted radar imaging technology and satellite communication protocols. The successful operation emphasizes the importance of global cooperation in combating cyber threats. #GRU #CyberWarfare

[Link: https://bnnbreaking.com/international-relations/operation-disrupts-gru-hacked-router-network-a-major-win-in-cyber-warfare](https://bnnbreaking.com/international-relations/operation-disrupts-gru-hacked-router-network-a-major-win-in-cyber-warfare)



REGULATION



An EU Space Law on the Horizon : Decoding Legal Foundations and Navigating Policy Frontiers

In recent years, the European Union recognized the need for a substantial space regulation framework that would ensure responsible and sustainable activities in outer space. Member States have begun drafting national laws to meet space-related challenges such as satellite proliferation, risks of congestion and collision, and security threats against space assets.

#EU #EUSL

[Link: https://finabel.org/initiatives-an-eu-space-law-on-the-horizon-decoding-legal-foundations-and-navigating-policy-frontiers/](https://finabel.org/initiatives-an-eu-space-law-on-the-horizon-decoding-legal-foundations-and-navigating-policy-frontiers/)



TECHNOLOGY

Space Force will take command of future life target tracking satellites

The US Space Force is set to take command of a new fleet of satellites that will provide real-time monitoring of ground targets around the globe, offering unprecedented surveillance capabilities known as the Ground Moving Target Indicator (GMTI) and is development by the National Reconnaissance Office (NRO). The Space Force will be the lead operator of the next generation satellite system. #SpaceWarfare

[Link: https://www.space.com/defense/space-force-will-take-command-of-future-life-target-tracking-satellites](#)



Securing the Final Frontier : Zero Trust Cybersecurity Model for Space Assets and Satellite Networks

Space assets are part of the world's critical infrastructure. A cybersecurity breach targeting a satellite might lead to dire consequences, from the interruption of essential services and jeopardizing national security to significant economic repercussions. Considering the gravity of these implications, it is vital for the industry to bolster its cybersecurity defenses and comprehensively fortify its operating infrastructure. #SpaceWarfare

[Link: https://www.space.com/defense/zero-trust-cybersecurity-model-for-space-assets-and-satellite-networks](#)



TECHNOLOGY

GNSS Navigation – Group One unveiled GNSS Denied Navigation Kit – a significant leap forward in autonomous navigation for low earth environments

GNSS Navigation part of the GNSS kit through the leading innovation in navigation solutions, enables to take product GNSS Denied Navigation Kit. This solution is specifically designed to drive in GNSS denied environments, offering operational navigation capabilities in challenging scenarios. #GNSS #GNSSNavigation

Link: <https://www.groupone.com/press-releases/gnss-denied-navigation-kit-a-significant-leap-forward-in-autonomous-navigation-for-low-earth-environments/>



Quantum optical TerQoS – a mobile Quantum Optical Ground Station (QGS)

TerQoS, a leader in quantum communications technology, announces the launch of TerQoS, a Mobile Quantum Optical Ground Station (QGS) designed to open the barriers for access to secure communications through satellite Quantum Key Distribution (QKD). #Quantum #TerQoS

Link: <https://www.terqos.com/2024/02/12/terqos-launches-terqos-a-mobile-quantum-optical-ground-station-qgs/>



Address recent satellite to support time and location solution for enhanced GNSS resilience

Address launched new synchronization solutions featuring satellite time and location (STL) technology to address the growing vulnerabilities of GPS and other GNSS systems to jamming and spoofing attacks. Address STL based on the dual GNSS + PTP grandmaster clock can now receive STL signals. #Address #GNSS

Link: <https://www.address.com/press-releases/address-satellite-to-support-time-and-location-solution-for-enhanced-gnss-resilience/>



UK to build Defense Satellite Constellation Control Software

The UK has awarded a million pounds (\$1.6 million) to develop 'critical software' for the Ministry of Defense's satellite constellation control system. The funding will deliver a 'robust, secure, and automated' platform to manage growing numbers that will support British military operations. #UK #GNSS

Link: <https://www.defence.gov.uk/news/2024/02/12/uk-build-satellite-constellation-control-software.html>



★ OSNMA : the latest in GNSS anti-spoofing security

To further improve transmission reliability, the European GNSS system, Galileo, has developed the OSNMA anti-spoofing service, which allows secure end-to-end transmission from Galileo satellites to OSNMA-enabled GNSS receivers. OSNMA (Open Service Navigation Message Authentication) will soon be available free of charge to users and has recently moved into the final testing phase. #GNSS #OSNMA

Link: <https://www.septentrio.com/en/learn-more/insights/osnma-latest-gnss-anti-spoofing-security>



TRAINING & EDUCATION

Governments worldwide use satellite communications to close a critical gap

Every nation needs to strengthen its ability to detect, deploy and control its critical communications infrastructure under all foreseeable circumstances – be they international conflicts, impacts of the climate, catastrophic earthquakes or what else. How the future looks is clear for us. #Resilience #CriticalInfrastructure

Link: <https://www.resilience.com/insights/governments-use-satellite-communications-close-critical-gap/>

Space Symposium Agenda: Confronting Cyber Threats to Space Systems

Join us at a conference about cyber threats to space systems at the Space Symposium on April 16, 2024. #SpaceSymposium #Conference

Link: <https://www.space-symposium.org/2024/confronting-cyber-threats-to-space-systems/>



Doctor of Philosophy (PhD) in Space Cybersecurity

Apply now for a PhD in Space Cybersecurity. This degree is a unique program designed to meet the existing needs of today's space cybersecurity in an ever-changing world of conflict. This program is for current professionals in the field who desire to elevate their skills to the highest level and to contribute to the body of knowledge in space cybersecurity. #Space #AppliedTechnology #Cybersecurity

Link: <https://www.appliedtechlearning.com/programs/doctoral-degree-space-cybersecurity-phd/>





TRAINING & EDUCATION



CYMAT USA - Space and cybersecurity: what are the next challenges?

Reunite your staff for an exclusive morning on March 15, 2024, on space Cybersecurity with top experts from Switzerland, France and the USA and enjoy a technical dinner by CYMAT. **#CYMAT #Cybersecurity**

Link: <https://www.cyberinflight.com/news/space-cybersecurity-what-are-the-next-challenges.html#CYMAT>



Low Earth Orbit (LEO) SATCOM Cybersecurity Assessment

This report published by the European Union Agency for Cybersecurity (ENISA) explores the cybersecurity of Low Earth Orbit (LEO) constellations providing telecommunications services (LEO satcom). Examining various threats and risks- technical, financial, or commercial the landscape of potential attacks is vast. It includes traditional cyber threats targeting user and control segments (terminals, gateways, telemetry tracking, command stations, and interconnection networks), extending to satellite-specific attacks. **#ENISA #LEO**

Link: <https://www.enisa.europa.eu/publications/low-earth-orbit-leo-satcom-cybersecurity-assessment>



NSA Advisory Board to meet 24 & 25 April in Colorado Springs

The National Space Based Positioning, Navigation, and Timing Advisory Board will meet on the 24th and 25th of April in Colorado Springs. This is a public meeting open to everyone that will be livestreamed. **#Meeting #NSA**

Link: <https://www.inflight.com/news/NSA-advisory-board-to-meet-24-25-april-in-colorado-springs/>



Space Power: Securing Space Systems from Cyberattacks - "We play attack a little"

The product manager cyberattacks on space systems. Laura Winter speaks with Michael Stone, Space Information Sharing and Analysis Center (SISAC) Board Chair and Fellow at The Aerospace Corporation, Long Beach, an Assistant Professor at the Utah School of Mechanical and Aerospace Engineering, and the Systems Engineering Program at Utah State and Army Lt. Colonel and CEO of Red Bullion Security. **#Space #Cyberattacks**

Link: <https://www.inflight.com/news/RedBullionSpacePowerSecuringSpaceSystemsFromSpaceAttackAnAttackALittle>

ESTC 2024 spotlights growing commercial significance of the space industry

At its most important space and technology convention, the Global Space and Technology Convention (ESTC) kicks off its 2024 edition bringing together over 1000 thought leaders, industry leaders and investors from 30 countries and regions. **#Convention #ESTC 2024**

Link: <https://www.inflight.com/news/ESTC-2024-spotlights-growing-commercial-significance-of-the-space-industry>



Two leaders honored at Cybersecurity Symposium | Embry Riddle Aeronautical University

Two leaders and their scholars have received A.S. Aerospace Cybersecurity Excellence Leadership Awards, recognizing their global leadership in efforts to combat cybersecurity threats in aviation and aerospace. The awards were presented on Feb. 4 at Embry Riddle Aeronautical University at an event that brought together the top experts in cyber defense. **#Symposium #Awards**

Link: <https://www.inflight.com/news/EmbryRiddleHonorsTwoLeadersAtCybersecuritySymposiumWithAwards>



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