



SPACE CYBERSECURITY WEEKLY WATCH

Week 15

April 3-11, 2023

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 : 38

Est. time to read : 1 hour

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

Overview

This week there were many news coming from the US but also other countries such as Russia, China. Even Israel has been in the spotlight. A focus on threat intelligence (particularly with jamming, cyberattacks on satellites and information from the US institutions) has been made this week. Also, many contracts have been signed this week, and the subject of quantum is being highlighted as well within this watch.

★ CYBERINFLIGHT NEWS ★

CyberInflight new **space cybersecurity market intelligence research report** is out ! The team has put an incredible amount of effort to release this "**150-pages bible of the space cybersecurity market**" ! You can get the details and the table of content contacting us at research@cyberinflight.com. This report is a unique resource that identifies the main market trends and intelligence indicators to comprehend the overall space cybersecurity ecosystem and to make better strategic decision making.

GEOPOLITIC

The Pentagon is Preparing for Space Warfare

The Space Force is the 5th arm of U.S. Military and it's gearing up for possible warfare in space - especially with China and Russia. #US

Link: <https://ktrh.heart.com/content/2023-04-03-the-pentagon-is-preparing-for-space-warfare/>

La Spagna ha la sua Agenzia spaziale: 700 milioni di budget (trad.: Spain has its own space agency: 700 million budget)

Spain has officially launched its own space agency. Official name: Agencia Espacial Española. The Spanish government has given the space industry a top "priority." And Minister Morant has already announced that the IEE will have an initial budget of more than €700 million in 2023. #Spain #AEE

Link: <https://www.spaceconomy360.it/industria-spaziale/la-spagna-ha-la-sua-agenzia-spaziale-700-milioni-di-budget/>

美太空领域网络安全能力建设研究 (trad.: U.S. Space Domain Cybersecurity Capacity Building Study)

Overview of American cybersecurity policy from China's point of view. #China #US

Link: <https://www.wangan.com/news/11v749cb0b05340f>

« L'écosystème du spatial européen se mobilise sur les enjeux liés à la cybersécurité » (trad.: The European space ecosystem is mobilizing on cybersecurity issues)

Le Cysat, unique salon européen dédié à la cybersécurité dans l'industrie spatiale, aura lieu les 26 et 27 avril prochains à Paris dans les locaux de Station F. Entretien avec son directeur, Mathieu Bailly. #Europe #CYSAT

Link: <https://www.journaldunet.com/solutions/dsi/1521359-mathieu-bailly-cysat/>

Absolutely critical' to get DARC space situational system to Australia: Space Forces Indo-Pacific head

The head of Space Forces Indo-Pacific says it's "absolutely critical" to get a new radar system there as quickly as can be. #USSF #Australia

Link: <https://breakingdefense.com/2023/04/absolutely-critical-to-get-darc-space-situational-system-to-australia-space-forces-indo-pacific-head/>



Ukraine Attempts To 'Hack' Russian Satellites With Help From 'Foreign Countries'; Moscow Says 'We Have A Right To Respond'

The Russian foreign minister has alleged that Ukraine is attempting to interfere with Russian communication satellites with the help of foreign experts. **#Russia #Ukraine**

Link: <https://eurasianimes.com/edited-nc-checked-russian-foreign-ministry-accuses-ukraine/>

DoJ: Estonian Man Tried to Acquire US-Made Hacking Tools for Russia

An Estonian national has been charged in the United States for purchasing US-made electronics and computer hacking tools on behalf of the Russian government and military. **#US #Russia**

Link: <https://www.securityweek.com/doj-estonian-man-tried-to-acquire-us-made-hacking-tools-for-russia/>



GPS Jamming in Israel Spikes Amid Regional Flare-up

Jamming of satellite-based navigation systems reached a six-month peak at the end of a week that saw Israel intercept an Iranian UAV and dozens of rockets from Lebanon, Syria, and the Gaza Strip, consequently interfering with the operation of planes in Israeli airspace. **#Jamming #Israel**

Link: <https://www.haaretz.com/israel-news/security-aviation/2023-04-10/ty-article/gps-jamming-in-israel-spikes-amid-recent-flareup/00000187-6589-dcdb-a9af-eda9f9330000>

PLA suspected of targeting passenger planes with GPS jamming

Chinese warships are suspected of jamming navigation systems and interfering with radio communications of passenger aircraft over the South China Sea and other international waters, the latest in the People's Liberation Army's (PLA) litany of brazen and reckless interactions in the skies and seas across the Indo-Pacific. **#China #Jamming**

Link: <https://ipdefenseforum.com/2023/04/pla-suspected-of-targeting-passenger-planes-with-gps-jamming/>

FSB likely to hold back Iran-Russia cyber cooperation

Iran seeks to bolster the cyber attack capacity, with more control of telecommunication networks to minimize threats by the opposition and activists. Threats to the current regime serve to enhance effort by Tehran and Moscow to set up efficient control of information field. **#Russia #Iran**

Link: <https://lansinginstitute.org/2023/04/05/fsb-likely-to-hold-back-iran-russia-cyber-cooperation/>

TECHNOLOGY

TÜV NORD and Leibniz Universität Hannover jointly research tap-proof satellite communication

TÜV NORD and Leibniz Universität Hannover want to jointly develop a highly integrated quantum light source with a new protocol for the generation and exchange of so-called quantum keys. **#Quantum #QuantumKeyDistribution**

Link: <https://www.presseportal.de/pm/38751/5480168>

US Army Completes First Flight of Next-Generation Navigation Solution

Honeywell's EAGLE-M Embedded Global Positioning System/Inertial Navigation System units were tested on the MQ-1C Gray Eagle Unmanned Aircraft System to validate their airworthiness to be deployed on military aircraft.

#USArmy #Navigation

Link: <https://www.defenseadvancement.com/news/us-army-completes-first-flight-of-next-generation-navigation-solution/>

Radiation-hardened processor system on chip (SoC) for commercial space uses introduced by Coherent Logix

Coherent Logix Inc. in Austin, Texas, is introducing the radiation-hardened HyperX: Midnight system on chip (SoC) processor for commercial space applications like communications satellites. **#CoherentLogix**

Link: <https://www.militaryaerospace.com/computers/article/14291779/space-processor-radiationhardened>

RSCC and Russian Railways agree to cooperate in satellite quantum communications development

Russian Satellite Communications Company Russian Railways JSCo, have signed a cooperation agreement. It is aimed at developing a quantum communications system based on RSCC satellites and ground infrastructure for the transmission of quantum-secure data. **#Russia #Quantum**

Link: <https://spacewatchafrica.com/rsc-and-russian-railways-agree-to-cooperate-in-satellite-quantum-communications-development/>

BridgeComm Demonstrates Quantum Encryption With Optical Ground Modem

BridgeComm has demonstrated quantum encryption technology over the company's optical ground modem, BridgeComm announced April 5. **#Encryption #Quantum**

Link: <https://www.satellitetoday.com/technology/2023/04/10/bridgecomm-demonstrates-quantum-encryption-with-optical-ground-modem/>



MARKET & COMPETITION

Lockheed wins Australia's biggest ever space contract, worth estimated \$4B AUD

Lockheed Martin has won Australia's largest-ever defense space contract, to build a satellite and ground station architecture for a program known as JP 9102, the Australian government announced late Monday.

#LockheedMatrin #Australia

Link: <https://breakingdefense.com/2023/04/lockheed-wins-australias-biggest-ever-space-contract-worth-estimated-4b-aud/>

ISRO Says International Space Investment India Projects grants are now open

The International Space Investment India Projects (ISI India Projects) grant program is now open for applications.

Cybersecurity projects for space missions is among the 9 domains highlight in the program. #ISRO #India #Australia

Link: <https://spacewatchafrica.com/isro-says-international-space-investment-india-projects-grants-are-now-open/>

SES selects NOVELSAT content protection for global sports events

NOVELSAT has been selected by SES to ensure secure transmission of major global sports events content through the use of the firm's NOVELSAT Ncrypt, comprehensive, BISS-CA (secure 128-bit encryption), content protection solution.

#SES #Novelsat

Link: <https://news.satnews.com/2023/04/04/ses-selects-novelsat-content-protection-for-global-sports-events/>

Harness the Power of Space Cybersecurity for Growth and Opportunity

Space cybersecurity is a rapidly growing niche market. It presents a unique opportunity for small businesses to expand their expertise and position themselves as valuable partners in the government and private sectors.

#SmallBuisness #SpaceCybersecurity

Link: <https://www.inc.com/heather-wilde/harness-power-of-space-cybersecurity-for-growth-opportunity.html>

Colorado Springs cybersecurity firm earns \$39.5 million contract

Axellio, a Colorado Springs-based cybersecurity company, won a three-year, \$39.5 million contract last month to monitor and protect U.S. Army installations' internet networks around the world. #Axellio #USArmy

Link: <https://finance.yahoo.com/news/colorado-springs-cybersecurity-firm-earns-035600171.html>

Safran to provide GNSS solutions for Xona Space Systems

Orolia a Safran Electronics and Defence company, has announced a partnership with Xona Space Systems to develop support for Xona's Low Earth Orbit (LEO) constellation and navigation signals in its Skydel-powered simulation and testing products. #GNSS #Safran #Xona Space Systems

Link: <https://spacewatch.global/2023/04/safran-to-provide-gnss-solutions-for-xona-space-systems/>

REGULATION



Cybersecurity Guidelines for Commercial Space Systems

Release of Cybersecurity Guidelines for commercial space systems by the Ministry of Economy, Trade and Industry

#Guidelines #METI

Link:

https://www.meti.go.jp/shingikai/mono_info_service/sangyo_cyber/wg_seido/wg_uchu_sangyo/pdf/20230331_1e.pdf

Global 'Rules of the Road' Included in Landmark Update to Space Safety Best Practices

An international coalition of industry and government satellite operators, launch vehicle and spacecraft manufacturers, SSA companies, and other space stakeholders today announced an important update to its landmark set of best practice guidelines and expected norms of behavior in space, establishing a new set of "rules of the road" for coordination of space operations. #SSC

Link: <https://itnews.co.il/from-the-world/?p=43998>



THREAT INTELLIGENCE

Ransomware Groups Attacking Satellite and Space Industry

There has been an increase in attacks on the space sector recently due to recent geopolitical developments, as reported by the Cyble Research Intelligence Labs (CRIL). **#Ransomware #Satellites #CIRL**

Link: <https://cybersecuritynews.com/ransomware-groups-attacking-satellite/>

Satellite Ground Stations Are Vulnerable, US Warns

As the Space Development Agency moves to put larger satellite constellations into multiple orbits, it has become increasingly concerned with keeping the ground stations that control those satellites safe. **#GroundStations**

Link: <https://www.defenseone.com/threats/2023/04/sda-stresses-need-protect-satellites-ground-stations/384786/>

Space Force plans late FY24 award for 'Digital Bloodhound' to sniff out cyber attacks

The Space Force's primary acquisition command today is wrapping up industry meetings with for its Digital Bloodhound program to improve detection of cyber threats, with a contract award expected late this year. **#USSF #DigitalBloodhound**

Link: <https://breakingdefense.com/2023/04/space-force-plans-late-fy24-award-for-digital-bloodhound-to-sniff-out-cyber-attacks/>

SDA's Derek Tournear on Building Resilience in Space Through Satellite Proliferation

Derek Tournear, director of the Space Development Agency, said SDA is working to build resilience in space through the proliferation of satellite communications systems that are cost-effective, cyber-hardened and interoperable. **#SDA**

Link: <https://executivegov.com/2023/04/sdas-derek-tournear-on-building-resilience-in-space-through-satellites/>

DOD working with federal CISO Council on CMMC-like standards for civilian agencies

The DOD is working with civilian agencies on a new FAR rule that would apply new requirements for vendors that handle controlled unclassified information. **#DoD**

Link: <https://defensescoop.com/2023/04/05/dod-working-with-federal-ciso-council-on-cmmc-like-standards-for-civilian-agencies/>

Cybersecurity, le infrastrutture satellitari europee sono a rischio. Report lai (*trad.: Cybersecurity, Europe's satellite infrastructure is at risk. lai report*)

The cyber risk is high for much of Europe's satellite infrastructure. This is the conclusion of "The Space Domain and the Cyber Threat, organized by the Istituto Affari Internazionali (Iai)," the report edited by Ottavia Credi, Giancarlo La Rocca and Alessandro Marrone of Iai - Istituto Affari Internazionali. **#Europe #Cybersecurity**

Link: <https://www.startmag.it/cybersecurity/cybersecurity-le-infrastrutture-satellitari-europee-sono-a-rischio-report-lai/>

Due to electronic jamming, the Israeli air defense system showed the worst result in history

The performance of the Israeli Iron Dome air defense system was one of the lowest since it was put into service.

#Jamming #Israel

Link: <https://avia-pro.net/news/iz-za-radioelektronnogo-podavleniya-izrailskaya-sistema-pvo-prodemonstrirovala-naihudshiy>

Cybersecurity Risks and Threats in the Satellite Sector: An Overview

Satellites bring many benefits and help to obtain unique information, including real-time satellite imagery to assess current events, but it does not protect them from hackers. Solving threat problems is tricky as there is no warning, and the attack speed can be high. **#Satellite #Cybersecurity**

Link: <https://latesthackingnews.com/2023/04/10/cybersecurity-risks-and-threats-in-the-satellite-sector-an-overview/>

Report: U.S. military satellite antennas overdue for upgrades

The ground terminals used to operate U.S. military and intelligence satellites are running out of capacity and in dire need of upgrades, warns a new report from the Government Accountability Office. **#US #Satellite**

Link: <https://spacenews.com/report-u-s-military-satellite-antennas-overdue-for-upgrades/>

Offensive Cyber in Outer Space

As more nations engage in launching satellites with a variety of technical sophistication, the risk for hijacking and manipulation through covert activity increases. **#Satellites #Cyberattacks**

Link: <https://cyberdefense.com/2023/04/>



TRAINING & EDUCATION

Conversations at SATELLITE 2023 Show MILSATCOM and COMSATCOM Converging

The participants weighed in on how the satellite requirements have evolved and changed in today's modern military, and how this evolution has impacted the role of COMSATCOM in the DoD. The panelists also shared their opinions on the things that need to happen before COMSATCOM can truly become an integrated part of the military's satellite and network architecture. **#Satellite**

Link: <https://sessd.com/govsat/defense-intelligence/satellite-2023-shows-milsatcom-and-comsatcom-converging/>

Episode #003 Building satellites against cyber attacks with Dmitry Mikhaylov

Episode of the Nextspace Broadcast podcast, with Dr. Dmitry Mikhaylov. **#ReflexAerospace #Satellites**

Link: https://www.ivoox.com/episode-003-building-satellites-against-cyber-attacks-with-audios-mp3_rf_105848493_1.html

New Frontier and Threat Landscape in Space

Conference organized by Cyber Together on May 3rd 2023, on the New Frontier and Threat Landscape in Space with speaker from Xiphera, OneWeb and Space ISAC. **#Conference**

Link: <https://www.eventbrite.com/e/new-frontier-and-threat-landscape-in-space-tickets-586144593257>

Hack Space Con 23 - Cybersecurity Space Aero Defense Hacker Conference

Hack Space Con is a cyber security, space and hacking conference located at the Kennedy Space Center in Florida. The conference has professional paid trainings, a free workshop training day, conference talks with 5 tracks including Space, Red team, Blue team, Purple team and Career Development. **#HackerConference #Cybersecurity**

Link: <https://www.eventbrite.com/e/hack-space-con-23-cybersecurity-space-aero-defense-hacker-conference-tickets-516298802617?aff=estw&utm-campaign=social&utm-content=attendeeshare&utm-medium=discovery&utm-source=tw&utm-term=listing>

Space and cyber wargame brings 350 experts together

Under the leadership of US Space Training and Readiness Command's (STARCOM) Space Delta 10, the 16th iteration of the Schriever Wargame concluded on 31 March, marking the 25th anniversary since the team initiated operations in 1998.

#STARCIL #Wargame

Link: <https://www.shephardmedia.com/news/training-simulation/space-and-cyber-wargame-brings-350-experts-together/>

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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