SPACE CYBERSECURITY WEEKLY WATCH

Week 30

July 17 – 23, 2023

Timeframe : Weekly

# of articles identified : 19

Est. time to read : 30 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.

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

Overview

There were relatively little news this week in the field of space cybersecurity. On the market front, Thales has been selected by ESA for two contracts to provide cybersecurity for Galileo Second Generation. In the USA, the government has awarded two contracts. The first is for Leonis via the Office of the Director of National Intelligence to provide intelligence, technical, financial, and management services. The second was awarded by the US Space Force to Anduril. Also on the market front, this week Safran acquired part of Collins Aerospace.

An interesting piece of regulatory news this week is the publication of the UK's National Space Strategy - Plan into Action. On the Threat Intelligence front, it's worth noting this week that the Russian Navy has deployed makeshift GPS Jammers to warships for the St. Petersburg Parade. On the technological front, the Hyperspace Challenge has been launched by the US Space Force, and companies are invited to submit technology proposals. Finally, surfing on the wave of serious games and hacking competitions, RUVDS and Positive Technologies have launched a Russian CTF sports hacking competitions with a server-satellite as the key element.

⭐ 🎉 CYBERINFLIGHT NEWS 🎉 ⭐

CyberInflight team is now **proud to be in the contributor list of the SPARTA framework**. The last version published on July 18, 2023, adds more than 60 attack references ⚔ provided by our market intelligence team.
Link to the LinkedIn post: *https://www.linkedin.com/posts/florent-rizzo-13b54383_sparta-activity-7087723538370965506-SzWV?utm_source=share&utm_medium=member_desktop*
Link to the SPARTA framework: *https://sparta.aerospace.org/contribute*

GEOPOLITIC

Who will defend critical space infrastructure if not the Space Force?
The UK Joint Task Force-Space Defense Commercial Operations Cell (JCO) in effect will extend the time the SPACECOM can keep tabs on satellites, especially those owned by adversaries, and dangerous space debris. **#UK #US**
Link: https://news.yahoo.com/defend-critical-space-infrastructure-not-161545803.html

US risks 'weakness and dependence' as it falls behind China in tech race: Report
If the US doesn't take immediate action to catch up to China in emerging tech fields, it risks a future of "weakness and dependence," according to a blistering new report. **#China #US**
Link: https://breakingdefense.com/2023/07/us-risks-weakness-and-dependence-as-it-falls-behind-china-in-tech-race-report/

⭐ **US Space Command Does Not Provide Blanket Protection for Commercial Satellites, If Attacked**
The 133 commercial space companies that provide systems for U.S. military use do not have automatic protection for those systems from U.S. Space Command, the head of SPACECOM said on July 19. **#SPACECOM #Satellite**
Link: https://www.satellitetoday.com/government-military/2023/07/20/us-space-command-does-not-provide-blanket-protection-for-commercial-satellites-if-attacked/

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MARKET & COMPETITION

⭐ **Thales confirms its key role to provide cybersecurity for galileo second generation to meet tomorrow's threats**
Thales has been notified by the European Space Agency (ESA), on behalf of the European Union Agency for the Space Programme (EUSPA) and the European Union represented by the European Commission, of two major contracts for cybersecurity of Galileo Second Generation (G2G) programme. **#EUSPA #THALES**
Link: https://www.thalesgroup.com/en/worldwide/security/press_release/thales-confirms-its-key-role-provide-cybersecurity-galileo-second

The United Kingdom Wants to be a Space Insurance Hub
The United Kingdom is looking to build on its longstanding reputation as a global insurance hub to become a key player in the multi-billion dollar space insurance industry. One of the reasons given by Cristopher Kunstadter, is that there is new threats from cyber and conflict in space. **#Insurance #UK**
Link: https://spaceanddefense.io/the-united-kingdom-wants-to-be-a-space-insurance-hub/

Intelligence cyber support contract signed between ODNI, Leidos
Technology and engineering firm Leidos won a prime contract of $375 million, to provide intelligence, technical, financial, and management services to the Office of the Director of National Intelligence (ODNI), the U.S. government agency that provides oversight for the intelligence community. **#Leidos #ODNI**
Link: https://militaryembedded.com/cyber/cybersecurity/intelligence-cyber-support-contract-signed-between-odni-leidos

Space Force using Anduril software to integrate U.S. space surveillance sensors
The Space Force so far has awarded Anduril $10.5 million in Small Business Innovation Research contracts for the company's Lattice networking software that autonomously parses and integrates data from third-party sensors and data sources. **#USSF #Anduril**
Link: https://spacenews.com/space-force-using-anduril-software-to-integrate-u-s-space-surveillance-sensors/

Collins Aerospace : Safran poursuit ses rachats tous azimuts *(Trad.: Collins Aerospace: Safran continues its acquisitions spree)*
The French aerospace group announces the acquisition of the actuator and flight control division of the American Collins Aerospace, a business with sales of $1.5 billion. The latest in an impressive series of acquisitions. **#Safran #CollinsAerospace**
Link: https://www.challenges.fr/entreprise/aeronautique/collins-aerospace-safran-poursuit-ses-rachats-tous-azimuts_862435

THREAT INTELLIGENCE

⭐ **Russian Navy Deploys Makeshift GPS Jammers To Warship For St. Petersburg Parade**
The Russian Navy appears to have heightened concerns that its annual Navy Day parade in Saint Petersburg may be attacked by drones. The parade takes place on July 30 and traditionally included a large selection of warships and submarines, including visiting nuclear subs. However this year it is already scaled back. **#Russia #GPS**
Link: http://www.hisutton.com/Russian-Navy-GPS-Jammer-OSINT.html

Coverage by CyberInflight of the Russian satellite telecom Dozor-Teleport Attack
Analysis by a CyberInflight analyst of the attack on the Russian satellite telecom. **#CyberInflight #Dozor-Teleport**
Link: https://www.spacesecurity.info/coverage-of-the-dozor-teleport-attack-by-cyberinflight/

Satellites Are Rife With Basic Security Flaws
A new analysis from a group of German academics provides a rare glimpse into some of the security weaknesses in satellites currently circling the Earth. The researchers, from the Ruhr University Bochum and the Cispa Helmholtz Center for Information Security, have examined the software used by three small satellites and found that the systems lack some basic protections. **#Cybersecurity #Satellites**
Link: https://www.wired.co.uk/article/satellites-basic-security-flaws

REGULATION

⭐ **UK Publishes National Space Strategy in Action**
The United Kingdom (UK) has published its National Space Strategy in Action, setting out how the government will deliver on the ambitions set out in the National Space Strategy and summarizes the government's achievements so far. Primarily, the policy paper sets out the next steps in implementing the National Space Strategy across each of its four pillars; unlocking growth, collaborating internationally, growing as a science superpower, and developing resilient capabilities.
#UK #SpaceStrategy
Link: https://spacewatch.global/2023/07/uk-publishes-national-space-strategy-in-action/

TECHNOLOGY

SpiderOak Demonstrates OrbitSecure Cyber Software on Ball Aerospace Satellite
The OrbitSecure cybersecurity software uses encryption and distributed-ledger software to operate a decentralized key management system. The software has been tested on the ground, but this was the first test in space.
#SpiderOak #Cybersecurity
Link: https://www.satellitetoday.com/cybersecurity/2023/06/26/spideroak-demonstrates-orbitsecure-cyber-software-on-ball-aerospace-satellite/

⭐ **Hyperspace Challenge Seeks to Manage Evolving Threats in Space**
The 2023 Hyperspace Challenge is inviting companies from space, aerospace, defense, cybersecurity and manufacturing industries to submit technology proposals to boost space visibility and awareness, modernize space analysis and vehicle autonomy and increase space vehicle lifespan and maneuverability. **#HyperspaceChallenge #USSF**
Link: https://executivegov.com/2023/07/hyperspace-challenge-seeks-to-manage-evolving-threats-in-space/

Enhancing Resilience: The Vital Role Of Gnss Simulators In Testing Of Autonomous Systems Against Jamming
Article about the significance of GNSS and GPS simulators in testing the resilience of autonomous systems against external interference. **#GNSS #GPS**
Link: https://safran-navigation-timing.com/the-vital-role-of-gnss-simulators-in-testing-of-autonomous-systems-against-jamming/

TRAINING & EDUCATION

⭐ **RUVDS и Positive Technologies** запускают соревнования по спортивному хакингу в космосе
RUVDS and Positive Technologies have launched CTF sports hacking competitions, the key element of which is a server-satellite. The spacecraft of the VPS/VDS server hosting provider started its work in the Earth's orbit this month and since July 18 has been transmitting signals to the Earth, the decoding of which will be the key to passing all stages of the competition. **#Satellite #RUVDS**
Link: https://ruvds.com/ru/ruvds-positive-technologies-ctf2023/

Q2B 2023 Paris | Quantum Algorithms applied to Satellite Mission Planning | Pinto & Barbaresco
A panel dedicated to the subject of Quantum Algorithms applied to Satellite Mission Planning with the participation of Thales and Terra Quantum. **#Quantum #satellite**
Link: https://www.youtube.com/watch?v=V2CslzlCmoY

Hack-A-Sat's Moonlighter satellite deploys to low earth orbit after last month's successful launch
Moonlighter reached low earth orbit July 5 after a short visit at the International Space Station and is on track for its inaugural mission: to host an on-orbit cybersecurity challenge during Hack-A-Sat 4 finals, making it the first on-orbit Capture the Flag, or CTF, hacking competition. **#Hack-A-Sat #Moonlighter**
Link: https://www.afrl.af.mil/News/Article-Display/Article/3456962/hack-a-sats-moonlighter-satellite-deploys-to-low-earth-orbit-after-last-months/

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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