SPACE CYBERSECURITY WEEKLY WATCH

Week 32

August 1 – 7, 2023

Timeframe : Weekly
# of articles identified : 28
Est. time to read : 45 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
- REGULATION
- TECHNOLOGY
- THREAT INTELLIGENCE
- TRAINING & EDUCATION
- IMPORTANT NEWS

Overview

This week was marked by the publication of BSI's technical guidelines, "TR-03184 Information Security for Space Systems - Part 1: Space segment". Another major development this week was the introduction in the US of a bill to designate space as a critical infrastructure sector. The Senate Appropriations Committee also approved a $831 billion defense spending bill for fiscal year 2024. There are still two ESA call for proposals open this week, one being the Space Systems for Safety and Security (4S) Call for Proposals, and the second concerning the Cyber-range testbed for Satellite Communications Physical and Data Link Layers within the ARTES program. Xona Space System was also awarded a contract with the AFRL and the US Space Force. This week, Russia made advances in jamming, targeting Starlink satellites. A paper on satellite security was widely reported this week, including an interview with one of the researchers, who pointed out that "Satellites easier to hack than a Windows device". On the technology front, Orbit Communications Systems launched a new NetShroud+ solution, designed to enhance cybersecurity within ground stations.

GEOPOLITIC

CNES joins WMO to pools data and information from Copernicus Services and the European Sentinel satellites

The signing of an agreement between the French Space Agency (CNES) and EUMETSAT means that CNES is now part of the WMO Federation, which provides a platform that pools data and information from Copernicus Services and the European Sentinel satellites (orbiters etc). #CNES #Europe

Link: https://spacewatch.fr/fr/cnes-joins-wmo-pools-data-and-information-from-copernicus-services-and-the-european-sentinel-satellites/

Space Force programs get trimmed in Senate appropriations bill

The Senate Appropriations Committee last week approved an $831 billion defense spending bill for fiscal year 2024 that recommends about $1 billion in cuts from the U.S. Space Force's $30 billion request. #USSF #Budget2024

Link: https://spacenews.com/space-force-programs-get-trimmed-in-senate-appropriations-bill/

Bipartisan bill designates space as critical infrastructure sector

A bipartisan group of House members introduced a bill to designate space as a critical infrastructure sector, a move aimed at ensuring the rapidly evolving industry gets adequate resources and future security protections.

#US #Space

Link: https://thehill.com/homenews/space/4123413-bipartisan-bill-designates-space-as-critical-infrastructure-sector/

Enhancing 'lethality': First Space Force 'operations' doctrine cements role within Joint Force

The Space Force's new "operations" doctrine for the first time lays out how the newest military service sees its roles within the joint force during peace and war — not just to protect and defend US space assets, but also to defend terrestrial forces and enhance their "lethality" by using "combat power" in any fight. #USSF

Link: https://breakingdefense.com/2023/08/enhancing-lethality-first-space-force-operations-doctrine-cements-role-within-joint-force/

MARKET & COMPETITION

Thales to Protect Satellite Navigation System Against Cyber Threat

The European Space Agency (ESA) has awarded two contracts to Thales to ensure the security of the Galileo II satellite navigation system. **#Thales #Galileo**

Link: https://www.msspalert.com/cybersecurity-news/thales-to-protect-satellite-navigation-system-against-cyber-threats/

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REGULATION

Publication of BSI Technical Guidline "TR-03184 Information Security for Space Systems - Part 1: Space segment"

with this Technical Guideline, the BSI would like to provide the user of the guideline with security measures that help to achieve an appropriate level of security for the space segment. Within the framework of the expert group "Information Security for Space Systems" between the BSI and representatives of the German space industry, analyses were carried out in numerous workshops, risks identified and best practices collected, resulting in a comprehensive table that assigns security measures to identified threats for various processes. **#BSI**

Link: https://www.linkedin.com/posts/manuel-hoffmann-607b4b1a3_bsi-space-spacesecurity-activity-7092479779752275968-_2fo?utm_source=share&utm_medium=member_desktop

TECHNOLOGY

Orbit Launches the NetShroud+ Solution – New Cyber Security Capability for its Gaia100 Earth Observation Systems

Orbit Communications Systems Inc, a leading global provider of maritime and airborne SATCOM terminals, tracking ground station solutions and mission-critical airborne audio management systems, is proud to announce a major advancement in cybersecurity with the introduction of NetShroud+ for its Gaia100 Earth Observation systems.
#Orbit #Cybersecurity
Link: https://www.satcom.digital/news/orbit-launches-the-netshroud-solution-new-cyber-security-capability-for-its-gaia100-earth-observation-systems

THREAT INTELLIGENCE

Could Russian Electronic Warfare Systems Mute Ukrainian Starlink?

Reports have popped up suggesting that Starlink has stopped operating in some parts of the Ukraine conflict zone. Earlier in the month a source familiar with the situation told Sputnik that Russia had developed a new electronic warfare (EW) system capable of disrupting spacecraft communications in geostationary orbit. **#Russia #Starlink**
Link: https://www.theinteldrop.org/2023/08/01/could-russian-electronic-warfare-systems-mute-ukrainian-starlink/

THREAT INTELLIGENCE

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TRAINING & EDUCATION

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"Whenever there's a paradigm shift, there are security issues": Examining Satellite Security
In their paper "Space Odyssey: An Experimental Software Security Analysis of Satellites", CISPA Faculty Ali Abbasi and Thorsten Holz, along with researchers from Ruhr University Bochum, investigate the security issues that accompany the dawning of this "New Space Era". **#UniversityPaper #SpaceCybersecurity**
Link: https://cispa.de/en/satellite-security

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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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