

# SPACE CYBERSECURITY WEEKLY WATCH

Week 34

August 15 – 22, 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.



#### **Overview**

Timeframe: Weekly

# of articles identified: 30

Est. time to read: 55 minutes

This week, the 75<sup>th</sup> Intelligence, Surveillance and Reconnaissance Squadron of the USSF was created. Also, the EU accepted the Biden administration's proposal to the United Nations working group to limit ASAT testing. In addition, the US administration has informed the public and American space companies that Russian and Chinese intelligence agencies are trying to steal information and technology, and that cyberattacks to disable satellites in a conflict are to be expected. CyberInflight had the opportunity this week to visit the Space ISAC headquarters in Colorado Springs, as well as attending DEFCON and Black Hat in Las Vegas. On the market front, this week saw the launch of a partnership between Airbus and the University of Delf to advance talent and technology. CyberOps won a \$2.5m contract with the Australian Dept. of Defence. As for threat intelligence, a new report shows that Russia has managed to find and use new vulnerabilities in Starlink satellites. At the DEFCON and Black Hat conferences, Viasat and the NSA took the opportunity to report on the details of the attack that took place in February 2022. Also, a cyberattack on the Gemini Observatory in early August 2023 has caused the observatory to close for the time being. Finally, the Space ISAC AI/ML Community has published a white paper on the intersection between AI technologies, cybersecurity and space infrastructure.





# CYBERINFLIGHT'S NEWS & 🛨







During his visit to Space ISAC, Florent was lucky to be present on the day of Senator John Hickenlooper's visit to the Space ISAC headquarters to talk about cybersecurity issues for SMEs and the difficulty of training cyber experts. For more information on this visit, link to the follow-up post of the day. #SpaceISAC

Link: https://www.linkedin.com/posts/florent-rizzo-13b54383 space-isac-colorado-springs-activity-7097984230038589441-8Abo?utm\_source=share&utm\_medium=member\_desktop

#### CyberInflight at DEFCON and Aerospace Village

Takeways by Florent Rizzo from the DEFCON and Aerospace Village events and conferences #DEFCON

Link: https://www.linkedin.com/posts/florent-rizzo-13b54383\_space-cybersecurity-cyberinflight-activity-

7096951714523541504-drrP?utm\_source=share&utm\_medium=member\_desktop

Link: https://www.linkedin.com/posts/florent-rizzo-13b54383\_defcon-aerospace-village-hack-a-sat-activity-7096189507166695424-XyNk?utm\_source=share&utm\_medium=member\_desktop

#### CyberInflight at the BlackHat 2023

Takeways by Florent Rizzo from the BlackHat 2023 in Las Vegas #BlackHat

Link: https://www.linkedin.com/posts/florent-rizzo-13b54383\_blackhat-defcon-cyberinflight-activity-7095222345698533376-5IhR?utm\_source=share&utm\_medium=member\_desktop



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### **GEOPOLITIC**





#### EU embraces Biden administration's limited ASAT test ban as UN meeting looms

In the run up to the final meeting of the UN working group on military space norms of behavior, the 27 nations of the European Union have committed to a Biden administration proposal not to conduct tests of destructive, direct-ascent antisatellite (ASAT) missiles. **#UN #ASAT** 



Link: https://breakingdefense.com/2023/08/eu-embraces-biden-administrations-limited-asat-test-ban-as-un-meeting-looms/



#### Intelligence Agencies Warn Foreign Spies Are Targeting U.S. Space Companies

U.S. officials say Chinese and Russian spy agencies are trying to steal technology from private American space companies and preparing cyberattacks that could disable satellites in a conflict. **#US #China #Russia** 

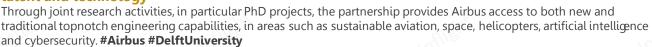


Link: https://www.nytimes.com/2023/08/18/us/politics/cyberattacks-russia-china-space-companies.html

# **MARKET & COMPETITION**



# Airbus and Delft University of Technology enter five-year partnership agreement to advance talent and technology



**Link:** https://spacewatchafrica.com/airbus-and-delft-university-of-technology-enter-five-year-partnership-agreement-to-advance-talent-and-technology/



#### CyberOps Takes the Lead in Space Cybersecurity

South Australian-based cybersecurity specialist, CyberOps, has secured a \$2.5 million contract with the Department of Defense. The project's focus is to strengthen the nation's critical space infrastructure against evolving cyber threats. As part of the initiative, Australia's first dedicated space cyber testing and training facility will be developed. Its primary goal will provide space operators and cyber practitioners with a simulation environment to enhance their skills and test space hardware and services. **#Australia #CyberOps** 

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Link: https://www.thesign.media/blog/cyberops



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Faux signals for real results: GNSS simulators long up with a panepty of new signals

# **TRAINING & EDUCATION**

Episoda 121: Cylor Defensa for Space

12th International SES Workshop

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of action to all space actors. Windows #ThehanospeceCorporation. Links https://cgn.erropace.org/nerts/theachplocks/21 calor delt

Italian team wire Space Farce's first on arbit Hack & Sat contact

USAF Funds Quantum Navigation System to Overcome GPS Limitations Aphabet giroff (undisoA)(is disetoping a quantum rantgation goten for the US Ac to



The annual hack A fait context, generated by the Space have and As have Research Laboratory to help improve the options until of Defense Department satellities, Stronglypet and No year — with halps with Server leading out has

Link: https://news.satnews.com/2023/08/15/space-isac-ai-ml-community-publishes-mlsecops-whitepaper/

Cyberopean Visual Expression Technology System Oriented to Space Based Information System this paper soft out the research progress of space based information retraced at home and abroad, discusses the development dates of opheropean elevationism repression theory and technology, and proposes, the content and technology of opheropean elevation and technology and opheropean the content and technology of opheropean elevationism repression for space based information systems. **Explores with Research Paper** 

How a hacking crew evertook a satellite from inside a Las Vegas convention center and was

In a room about overflowing with speciation inside Camani Forum, the main sense for this year's DEF CON hasting conference, flee feaths of facilities from account the world waited analously to see who would be runned the winner of the

EUSPA procurement to support the security occreditation of the EU Space Programma tions on the JOS of Augusta dedicates or the security accordination activities of the JOS encompany (all

tigh level specialists in satellite communication regulation and technology #925 #Leaembourg

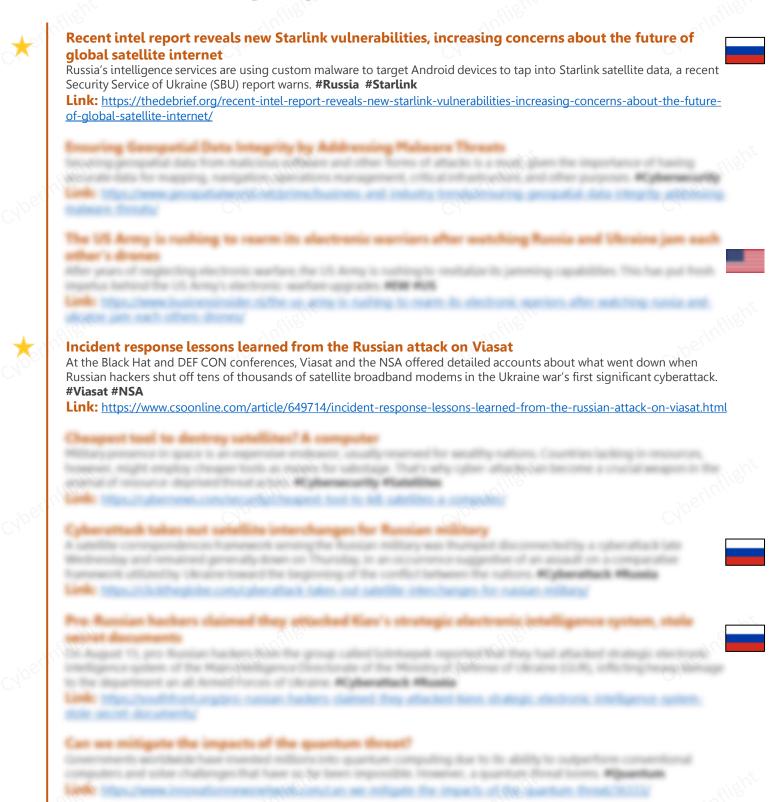
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## THREAT INTELLIGENCE



2023. The US National Institute of Optical and Infrared Astronomy (NOIRLab) has not disclosed the details of the attack, and experts have pointed out that "the attacker may not be aware that he has attacked the observatory." **#Cyberattack**Link: <a href="https://gigazine.net/gsc\_news/en/20230821-cyberattack-telescope/">https://gigazine.net/gsc\_news/en/20230821-cyberattack-telescope/</a>

Gemini Observatory will be forced to stop the system due to cyber attack, there is a possibility that

The Gemini Observatory, which has telescopes in Hawaii and Chile, has been shut down due to cyber attacks since August 1,

there will be a big delay in astronomy research

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.