# of articles identified: 26

Est. time to read: 50 minutes

week (from 59% to 57%)

10

# SPACE CYBERSECURITY WEEKLY WATCH

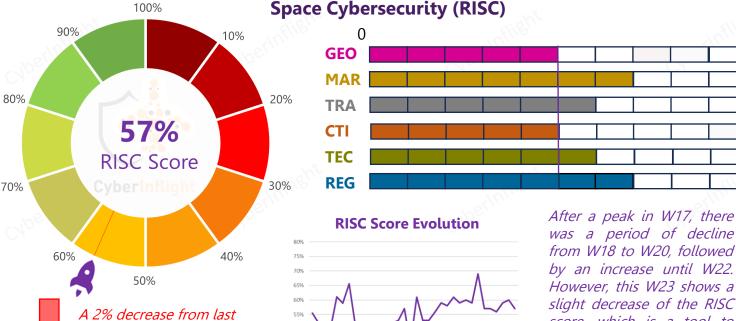
Week 23

June 4 - 10, 2024 Timeframe: Weekly

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 & Resilience Index for **Space Cybersecurity (RISC)** 



score, which is a tool to assess space cybersecurity resilience from information category in this report.

This week's RISC score is 57%. This week, CyberInflight's team followed the Defense and Space course organized by Sciences Po Bordeaux, to enhance our performance in the space defense field. In addition, the South Korean spy agency announced that National Intelligence Service (NIS) was forming to enhance satellite cyber security. On the technology front, Safran Federal Systems upgraded its Geonyx inertial navigation system (INS), based on HRG technology, to perform in GPS-denied or spoofing environments, offering reliable navigation. On the market front, K2 Space is developing the Mega Class satellite bus, in a cooperative research and development agreement with the Air Force Research Lab on cybersecurity. In addition, an academic document provides a method for enhancing cybersecurity in spacecraft operations by analyzing and reducing the attack surface of flight software. On the regulatory front, the Recommendations to Space System Operators for Improving Cybersecurity paper was released. It intends to inform space system operators and stakeholders of common cyber risks posed to space systems, and provide mitigations aligned with the NIST guidance and recommendations. Lastly, Space ISAC announced an update of its threat level assessment to raise awareness of the space industry, government, and international partner perspective on the current level of threat.





## 👺 CYBERINFLIGHT'S NEWS 🎉





#### **Defense & Space summer school: Sciences Po Bordeaux**

In an evolving context of international conflict and the emergence of new areas of conflict, Science Po Bordeaux organizes the Defense & Space summer school, for an understanding of defense issues affecting the specific field of space. This week, CyberInflight's team followed this course in order to get a new valuable certificate and to enhance our performance in the space defense field. #SciencePoBordeaux #SpaceDefence



**Link**: https://www.sciencespobordeaux.fr/fr/formation/ecoles-d-ete/bordeaux-defence-space-summer-school.html

### **GEOPOLITIC**



#### South Korea forms satellite cyber security body

South Korean spy agency announced that National Intelligence Service (NIS) was forming to enhance satellite cyber security, to build a foundation to protect national space assets from cyber threats, in response to the recent cyber attack against the Korea Satellite Operations Center. #SatelliteCybersecurity #SouthKorea



Link: https://www.koreaherald.com/view.php?ud=20240604050678

### TECHNOLOGY



#### Safran Federal unveils MEMS and HGR technologies

Safran Federal Systems is upgrading its Geonyx inertial navigation system (INS), which is based on HRG (hemispherical resonator gyroscope) technology, to incorporate M-Code capability. The fully integrated solution can perform in GPSdenied or spoofing environments, offering reliable navigation in challenging environments. #Safran #GPSspoofing **Link**: https://www.gpsworld.com/safran-federal-unveils-mems-and-hgr-technologies/



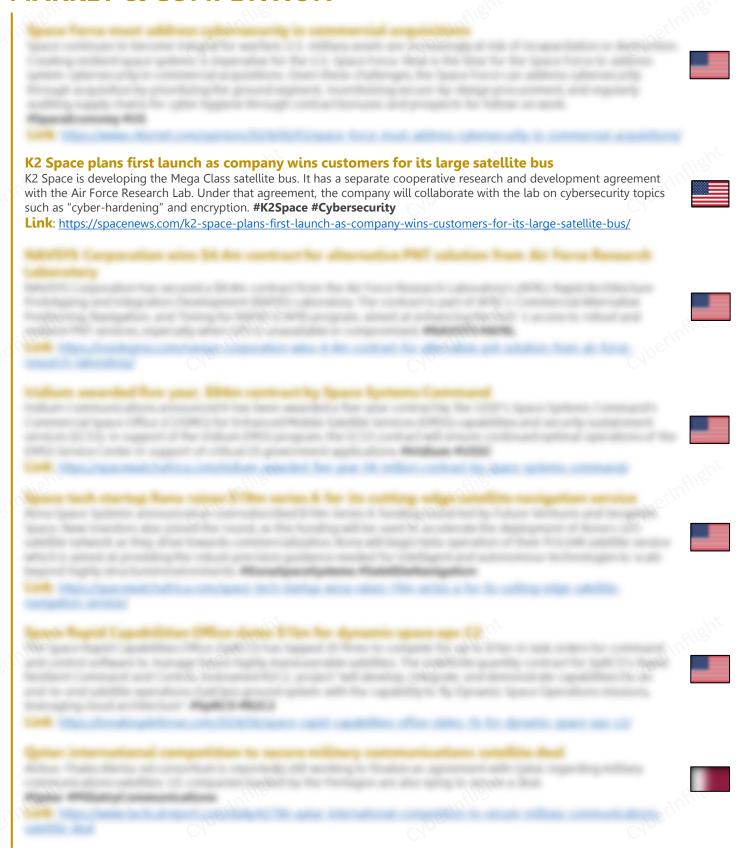








### **MARKET & COMPETITION**







Week 23 | June 4 – 10, 2024 Page 4/5

### **TRAINING & EDUCATION**



#### **Attack Surface Analysis for Spacecraft Flight Software**

Science is port to pertiable at televisional call and for

This document provides a method for enhancing cybersecurity in spacecraft operations by analyzing and reducing the attack surface of flight software. It advocates for reducing complexity in the software architecture and adopting more secure architectural principles to mitigate vulnerabilities and make spacecraft more resilient against cyber attacks. This study's findings suggest strategies for simplifying abstractions to make them more secure, addressing implementation issues, and providing supporting evidence for moving to a more resilient architectural approach. **#Space #Cyberattack Link**: https://easychair.org/publications/preprint/2psb

through all finished in this of the phylogeneous and configure allowed by appear to allow





Servingues:



### **Recommendations to Space System Operators for Improving Cybersecurity**

The Recommendations to Space System Operators for Improving Cybersecurity paper, written by the public and private sector members of the Space Systems Critical Infrastructure Working Group, is intended to inform space system operators and stakeholders of common cyber risks posed to space systems and provide mitigations aligned with the National Institute of Standards (NIST) guidance and recommendations. **#USA #SpaceCybersecurity** 



**Link**: <a href="https://www.cisa.gov/resources-tools/resources/recommendations-space-system-operators-improving-cybersecurity">https://www.cisa.gov/resources-tools/resources/recommendations-space-system-operators-improving-cybersecurity</a>





Week 23 | June 4 – 10, 2024 Page 5/5

### THREAT INTELLIGENCE

