



SPACE CYBERSECURITY WEEKLY WATCH

Week 18

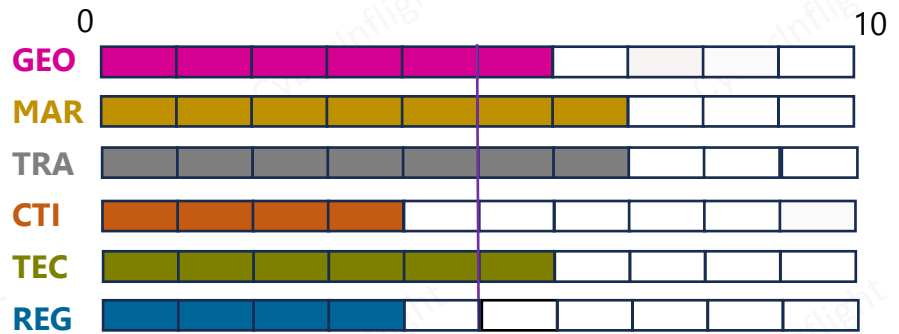
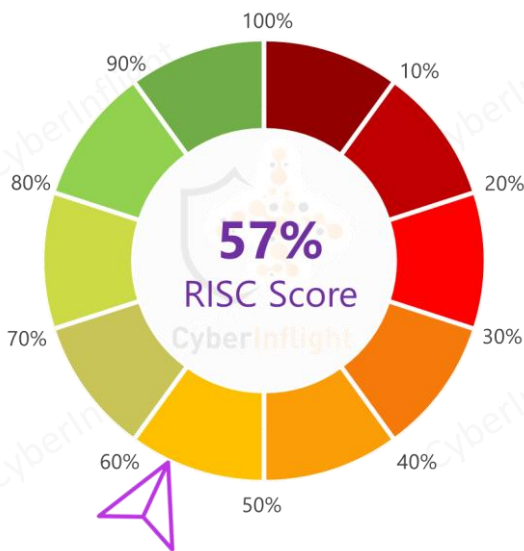
April 30 – May 6, 2024

Timeframe : Weekly
of articles identified : 32
Est. time to read : 50 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 INTELLIGENCE
- TRAINING & EDUCATION
- THREAT INTELLIGENCE
- TECHNOLOGY
- REGULATION
- ★ IMPORTANT NEWS

Overview & RISC Score



RISC Score Evolution



This W18 shows a 12% RISC Score decrease from last week's, but last week was unusual. Except for last week, the level is quite constant and higher than last year's level at the same period.

A 12% decrease from last week

This week's RISC score is 57%. This week, Finland's Foreign Minister, Elina Valtonen, spoke out against Chinese and Russian actions and commented on the situation with GPS interference in the Baltic Sea region. On the regulatory front, German Vice Chancellor Robert Habeck wrote a letter about the EU's planned IRIS2 project, complaining that France is taking the lion's share of the work contracts. In addition, OneNav, a global navigation satellite system (GNSS) technology developer, has launched L5-direct, a GNSS product capable of directly acquiring and tracking L5-band signals. This innovation arrives amid growing concerns over Russian forces using GPS jamming techniques in Europe. On the market front, SES is acquiring its rival satellite operator, Intelsat, for \$3.1Bn, which would bring together two of the significant GEO satellite operators in a market facing increased competition from LEO constellations. In addition, as cyber threats become more prevalent, so do threats to NASA's spacecraft. The federal government issues government-wide cybersecurity guidelines, such as the National Institute and Technology's Risk Management Framework for NASA, in response to these threats. Finally, Finnair, the sole international airline operating flights to Tartu, Estonia, has temporarily suspended its daily service from April 29 to May 31 in response to GNSS interference issues that have caused disruptions.



GEOPOLITIC

Russia GPS jamming threatens air defense over Baltic region

Russia's GPS jamming operations in the Baltic region are a clear sign of its growing military and technological capabilities. The jamming is aimed at disrupting GPS signals used by NATO forces and civilian aircraft in the region. This is a direct challenge to NATO's air defense capabilities and a sign of Russia's growing military and technological capabilities.

Link: [https://www.reuters.com/technology/russia-gps-jamming-air-defense-baltic-region-2024-04-29/](#)



China's space force has US troops more vulnerable than ever

China's space force has become a major threat to US troops in the Pacific region. The force is capable of disrupting GPS signals and other satellite-based services used by US troops. This is a direct challenge to US military operations and a sign of China's growing military and technological capabilities.

Link: [https://www.reuters.com/technology/china-space-force-us-troops-pacific-2024-04-29/](#)



Experts say White House could curb Russian GPS jamming

Experts say the White House could curb Russian GPS jamming by using its diplomatic and economic influence. The jamming is a clear sign of Russia's growing military and technological capabilities and a direct challenge to NATO's air defense capabilities. The White House could use its diplomatic and economic influence to pressure Russia to stop the jamming.

Link: [https://www.reuters.com/technology/experts-white-house-curb-russian-gps-jamming-2024-04-29/](#)



Taiwan joins European satellite internet coalition with China

Taiwan has joined the European satellite internet coalition, a move that has raised concerns in China. The coalition is aimed at developing a new satellite-based internet system that would be capable of providing high-speed internet access to remote areas. This is a direct challenge to China's growing military and technological capabilities.

Link: [https://www.reuters.com/technology/taiwan-joins-european-satellite-internet-coalition-2024-04-29/](#)



Valtonen warns of Chinese support for Russia's war, GPS jamming as hybrid influence

Foreign Minister Elina Valtonen (NCP) spoke out against Chinese and Russian actions. She points out the fact China is supporting Russia very strongly in the war, and she commented about the situation in Ukraine and GPS interference in the Baltic sea region. **#GPSjamming #Russia**

Link: <https://yle.fi/a/74-20087118?origin=rss>



REGULATORY



Franco-German dispute threatens to derail EU satellite internet program

German Vice Chancellor Robert Habeck stirred up controversy this week, following revelations that he beseeched the European Commission to scrap plans for a new satellite system months before its official launch. Habeck indeed wrote a letter in relation to the EU's planned IRIS2 project, complaining that France is taking the lion's share of the contracts of the work. **#EC #IRIS2**

Link: <https://europeanconservative.com/articles/news/franco-german-dispute-threatens-to-derail-eu-satellite-internet-programme/>



TECHNOLOGY

New application with GPS jamming capabilities

A new application with GPS jamming capabilities has been discovered. The application is capable of disrupting GPS signals and other satellite-based services used by US troops in the Pacific region. This is a direct challenge to US military operations and a sign of China's growing military and technological capabilities.

Link: [https://www.reuters.com/technology/new-application-gps-jamming-capabilities-2024-04-29/](#)



OneNav introduces new L5-direct GNSS receiver in response to increased GPS jamming

OneNav, a developer of global navigation satellite system (GNSS) technology, has launched L5-direct, a GNSS product capable of directly acquiring and tracking L5-band signals. This innovation arrives amid growing concerns over Russian forces using GPS jamming techniques in Europe to impair American drones in Ukraine. **#OneNav #GNSS**

Link: <https://www.gpsdaily.com/reports/OneNav-introduces-new-L5-direct-GNSS-receiver-in-response-to-increased-GPS-jamming-999.html>





MARKET & COMPETITION



SES to acquire Intelsat for \$3,1 billion

SES is acquiring rival satellite operator Intelsat for \$3.1Bn, a deal that would bring together two of the major GEO satellite operators in a market facing increased competition from LEO constellations. The companies announced April 30 that they had agreed on the deal, subject to regulatory approvals. SES will pay \$3.1Bn in cash along with certain contingent value rights for 100% of Intelsat. The transaction is not expected to close until the second half of 2025.

#SES #Intelsat

Link: <https://spacenews.com/ses-to-acquire-intelsat-for-3-1-billion/>





TRAINING & EDUCATION

Identifying the Quantum technology market
The quantum technology market is expected to grow significantly over the next few years, driven by government investment and private industry interest. The market is currently dominated by a few large players, but is expected to become more competitive as more companies enter the space.

Link: [https://www.frostand-sullivan.com/Insights-Quantum-Technology-Market-2023-2030](#)

Ensuring an satellite communication system security
Satellite communication systems are critical for many applications, including military, government, and commercial. Ensuring the security of these systems is a top priority for many governments and organizations. This involves a combination of technical and operational measures.

Link: [https://www.frostand-sullivan.com/Insights-Satellite-Communication-System-Security-2023-2030](#)

NASA Cybersecurity: plan needed to update spacecraft acquisition policies and standards
As cyber threats become more prevalent, so do threats to NASA's spacecraft. A cyberattack could lead to losing critical data, or possibly losing control of the spacecraft. In response to these threats, the federal government issues government-wide cybersecurity guidelines, such as the National Institute and Technology's Risk Management Framework.

#NASA #Cybersecurity
Link: <https://www.gao.gov/products/gao-24-106624>

Challenges in the US Space ICD, an analysis and space security implications in the US Space Sector
The US Space ICD (Interagency Coordination Document) is a key document in the US space policy. It outlines the roles and responsibilities of various agencies in the space sector. However, there are several challenges in implementing the ICD, particularly in the area of space security.

Link: [https://www.frostand-sullivan.com/Insights-US-Space-ICD-Challenges-2023-2030](#)

Space ICD assesses high speed connectivity of use
The US Space ICD assesses the high speed connectivity of use in the space sector. This involves a combination of technical and operational measures. The ICD also outlines the roles and responsibilities of various agencies in the space sector.

Link: [https://www.frostand-sullivan.com/Insights-Space-ICD-Assesses-High-Speed-Connectivity-2023-2030](#)

Windows signed operation attacks on ICD satellite systems
The Windows signed operation attacks on ICD satellite systems are a significant security concern. These attacks involve the use of malware to compromise the security of satellite systems. This can lead to the loss of critical data and the potential for unauthorized access to satellite systems.

Link: [https://www.frostand-sullivan.com/Insights-Windows-Signed-Operation-Attacks-2023-2030](#)

ICD planning in satellite communication industry used for military ICD
The ICD planning in satellite communication industry used for military ICD is a key document in the US space policy. It outlines the roles and responsibilities of various agencies in the space sector. However, there are several challenges in implementing the ICD, particularly in the area of space security.

Link: [https://www.frostand-sullivan.com/Insights-ICD-Planning-in-Satellite-Communication-Industry-2023-2030](#)

From the Space Symposium with Prof. John Space Security ICD
The Space Symposium is a key event in the US space industry. It provides an opportunity for industry leaders to discuss the latest developments in space technology and policy. Prof. John Space Security ICD is a key speaker at the event.

Link: [https://www.frostand-sullivan.com/Insights-From-the-Space-Symposium-with-Prof-John-Space-Security-ICD-2023-2030](#)





TRAINING & EDUCATION

US Cyber Corps leads innovative technology partnership to combat the threat
The US Cyber Corps is leading a new partnership with the UK's National Cyber Security Centre (NCSC) to combat the threat of satellite-based cyberattacks. The partnership will focus on developing and testing new technologies to detect and prevent such attacks. The US Cyber Corps is the lead agency for the US Space Force's cyber operations. The NCSC is the UK's lead agency for cyber security. The partnership is a key part of the US-UK cyber cooperation effort. **Link:** [https://www.cyberinflight.com/news/us-cyber-corps-leads-innovative-technology-partnership-to-combat-the-threat](#)



Black and Defense consultation platform for satellite networks based on threat
The US Cyber Corps is leading a new partnership with the UK's National Cyber Security Centre (NCSC) to combat the threat of satellite-based cyberattacks. The partnership will focus on developing and testing new technologies to detect and prevent such attacks. The US Cyber Corps is the lead agency for the US Space Force's cyber operations. The NCSC is the UK's lead agency for cyber security. The partnership is a key part of the US-UK cyber cooperation effort. **Link:** [https://www.cyberinflight.com/news/black-and-defense-consultation-platform-for-satellite-networks-based-on-threat](#)



THREAT INTELLIGENCE



GNSS jamming in Estonia leads to Finnair flight cancellations

Finnair, the sole international airline operating flights to Tartu, Estonia, has announced a temporary suspension of its daily service to the city from April 29 to May 31. This decision is in response to ongoing GNSS interference issues that have recently caused disruptions, including two instances last week where flights had to return to Helsinki. **#Jamming #Finnair**



Link: <https://insidegnss.com/gnss-jamming-in-estonia-leads-to-finnair-flight-cancellations/>

Russia's GPS jamming is growing threat to aviation safety
Russia's GPS jamming is growing threat to aviation safety. The jamming is causing significant disruptions to flight operations, including delays and cancellations. The jamming is also causing significant damage to aircraft. The jamming is a major concern for the aviation industry. The jamming is a major concern for the aviation industry. **Link:** [https://www.cyberinflight.com/news/russias-gps-jamming-is-growing-threat-to-aviation-safety](#)



Chinese satellite and GPS jamming threat

China's satellite and GPS jamming threat is growing. The jamming is causing significant disruptions to flight operations, including delays and cancellations. The jamming is also causing significant damage to aircraft. The jamming is a major concern for the aviation industry. **Link:** [https://www.cyberinflight.com/news/chinese-satellite-and-gps-jamming-threat](#)



GPS jamming threat to aviation

GPS jamming threat to aviation is growing. The jamming is causing significant disruptions to flight operations, including delays and cancellations. The jamming is also causing significant damage to aircraft. The jamming is a major concern for the aviation industry. **Link:** [https://www.cyberinflight.com/news/gps-jamming-threat-to-aviation](#)



Increased jamming of GPS flights: GPS systems threatened by Russia

Increased jamming of GPS flights: GPS systems threatened by Russia. The jamming is causing significant disruptions to flight operations, including delays and cancellations. The jamming is also causing significant damage to aircraft. The jamming is a major concern for the aviation industry. **Link:** [https://www.cyberinflight.com/news/increased-jamming-of-gps-flights-gps-systems-threatened-by-russia](#)



Risk to lives and GPS jamming attacks on Berlin airport

Risk to lives and GPS jamming attacks on Berlin airport. The jamming is causing significant disruptions to flight operations, including delays and cancellations. The jamming is also causing significant damage to aircraft. The jamming is a major concern for the aviation industry. **Link:** [https://www.cyberinflight.com/news/risk-to-lives-and-gps-jamming-attacks-on-berlin-airport](#)

