

W34 W35 W36 W37 W38 W39 W40 W41 W42 W43 W44 W45 W46 W47 W48 W49

On the geopolitical side, an article from IARI (Instituto Analisi Relazioni Internazionali) about space has been published where it states that the militarization and weaponization of space have led to the development of anti-satellite weapons and that increasing cyber threats further complicate space security. On the threat intel side, an awareness article about spacecraft, satellites, and space-based systems that, in recent years, have increasingly become targets for malicious actors, including nationsponsored hacker groups, raising serious concerns about mission safety and national security came up. Moreover, Interpol tipped off South Korean authorities about a suspicious shipment of satellite receivers from a Korean firm to an overseas company known for illegal broadcasting. Analysis confirmed that the receivers either came preloaded with malicious software enabling DDoS attacks or were configured to install it during firmware updates. The affected devices had been shipped between January 2019 and September 2024, with an earlier batch of nearly 98,000 units already infected at the time of sale. On the market front, RTX Raytheon will build 13 Next Generation Jammer Mid-Band (NGJ-MB) airborne EW systems for US Navy and Australian EA-18 Growler combat jets under terms of a \$591m contract announced in late November. On the technological side, Jesse Morehouse, Lockheed Martin's director of business development and strategy for positioning navigation and timing, said the ecosystem often overlooks security upgrades and technological innovations being developed to enhance GPS. Lastly, on board the ISS and the European Columbus module, DropCoal is performing its daily tasks that require real-time protection and adhere to rigorous cybersecurity standards set by ESA cyberinand NASA.



# **GEOPOLITICS**

### The evolving strategic importance of space in modern military operations

Since the mid-1950s, the number of space actors has proliferated, with more countries now actively participating in space activities. This interest highlights the critical role of satellites and space technologies in both the military and commercial sectors. Nations are investing heavily in advanced space capabilities to strengthen military power and protect strategic assets, making space a contested and competitive domain. **#Awareness #Military** 

Link: https://iari.site/2024/12/07/the-evolving-strategic-importance-of-space-in-modern-military-operations/



## TECHNOLOGY

### Lockheed Martin challenges narrative on GPS vulnerability

Lockheed Martin is challenging the prevailing narrative that military users of the Global Positioning System (GPS) are dangerously vulnerable to service disruptions and is emphasizing the advanced security features set to debut with the upcoming GPS IIIF satellites. While GPS is widely viewed as an indispensable backbone of the global economy, it is simultaneously seen as a fragile technological system vulnerable to sophisticated electronic warfare techniques and signal disruption. Jesse Morehouse, Lockheed Martin's director of business development and strategy for positioning navigation and timing, said this narrative overlooks security upgrades and technological innovations being developed to enhance GPS. **#LockheedMartin #GPS** 

Link: https://spacenews.com/lockheed-martin-challenges-narrative-on-gps-vulnerability/

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Week 49 | December 03 - 09. 2024 Page 3/7

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## Orbit under siege: The cybersecurity challenges of space missions

In recent years, spacecraft, satellites, and space-based systems have increasingly become targets for malicious actors, including nation-sponsored hacker groups, raising serious concerns about mission safety and national security. According to a 2024 Deloitte report, the number of active satellites in orbit is approaching 10,000 and is expected to double every 18 months. This rapid growth increases the risk of cyberattacks on satellites, ground stations, and communication links. #Awareness #SpaceMissions

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Link: https://www.cysecurity.news/2024/12/orbit-under-siege-cybersecurity.html





Week 49 | December 03 - 09, 2024 Page 4/7

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### Korean firm busted for Selling DDoS-enabled satellite receivers

The investigation began in July 2024 when Interpol tipped off South Korean authorities about a suspicious shipment of satellite receivers from a Korean firm, B Corporation, to an overseas company, A Corporation, known for illegal broadcasting. Interpol suspected that the devices included malicious software enabling DDoS attacks. Subsequent analysis confirmed that the receivers either came preloaded with the malware or were configured to install it during firmware updates. The affected devices had been shipped between January 2019 and September 2024, with an earlier batch of nearly 98,000 units already infected at the time of sale. **#SouthKorea #DDoS** 



Link: https://cyberinsider.com/korean-firm-busted-for-selling-ddos-enabled-satellite-receivers/







# **MARKET & COMPETITION**



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# Navy asks RTX Raytheon for 13 airborne electronic warfare (EW) jammers for US and Australian combat jets

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RTX Raytheon will build 13 Next Generation Jammer Mid-Band (NGJ-MB) airborne EW systems for US Navy and Australian EA-18 Growler combat jets under terms of a \$591m contract announced in late November. The NGJ midband is an advanced electronic attack system that denies, disrupts, and degrades enemy communications and air-defense radar systems. **#EW #Raytheon** 

Link: <u>https://www.militaryaerospace.com/sensors/article/55247123/raytheon-technologies-corp-airborne-electronic-</u> warfare-ew-jammers

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### Week 49 | December 03 - 09, 2024 Page 6/7

# **MARKET & COMPETITION**

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What cybersecurity on the ISS teaches us about defending critical systems

400 kilometers above the Earth, on board the International Space Station and inside the European Columbus module, DropCoal—a complex scientific experiment developed by the Romanian InSpace Engineering (RISE)—is performing its daily tasks, relying on real-time operations from the ground. However, real-time operations require real-time protection that adheres to rigorous cybersecurity standards set by both the European Space Agency (ESA) and the National Space Administration (NASA). **#ISS #DropCoal** 

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**Link**: <u>https://www.bitdefender.com/en-us/blog/businessinsights/what-cybersecurity-on-the-iss-teaches-us-about-defending-critical-systems</u>



# **TRAINING & EDUCATION**



Page 7/7

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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. Contact us at: <u>research@cyberinflight.com</u>* 

