SPACE CYBERSECURITY WEEKLY WATCH

Week 26

June 20 – 26, 2023

Timeframe : Weekly

# of articles identified : 30

Est. time to read : 1 hour

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**
- **THREAT INTELLIGENCE**
- **TECHNOLOGY**
- **TRAINING & EDUCATION**
- ★ **IMPORTANT NEWS**

Overview

A number of significant news occurred this week. India and Ecuador signed the Artemis agreement. Also, Japan released its new space security strategy. Furthermore, Japan is considering the use of the Starlink constellation for its military communications. On the geopolitical front, the visit of Foreign Minister Dr Vivian Balakrishnanin Washington is a sign of a closer relationship between the US and Singapore. On the market front, SAIC was awarded a $64 million contract by the SDA to build and maintain a cloud-based "application factory". Also, South Korea decided to invest 3.4 billion KRW in maritime and space security. Several cyberattacks took place this week. The first allegedly saw Compas Cable hacked by SiegedSec ransomware group. In the second, a Russian hacker posted an offer to sell access to a US military satellite. On the technology front, a new high-precision testing and operator training solution for cybersecurity in space has been launched. Also, a British partnership has begun to push the limits of quantum technologies in space.

GEOPOLITIC

★ **Space Defence: Challenges for the French Space Command**
Paper about the challenges for the French Space Command by French Space Commander. **#CDE #France**
Link: https://www.defnat.com/pdf/cahiers/CAH098/15.%20Adam%20(Paris%20Air%20Show%202023).pdf

[illegible]

La Russie prête à partager son expertise en construction de satellites (Trad.: Russia ready to share its satellite-building expertise)

According to the CEO of the Russian space agency Roscosmos, Russia is ready to share its experience and expertise in satellite construction with BRICS members – Brazil, India, China and South Africa. **#Russia #Satellite**

Link: https://www.telesatellite.com/article/tu52981-la-russie-prete-partager-son-expertise-en-construction-de-satellites.html

Japan's Self-Defense Forces consider adopting Musk's Starlink satellite service

Japan's military is reportedly considering the adoption of Elon Musk's Starlink satellite internet service, as the country seeks to enhance its communication capabilities. While it is considered, there are also challenges such as integration with existing systems and infrastructure, compatibility with other communication networks, and cybersecurity concerns that will need to be thoroughly assessed. **#Japan #Starlink**

Link: https://bnn.network/breaking-news/japans-self-defense-forces-consider-adopting-musks-starlink-satellite-service/

MARKET & COMPETITION

SAIC to build software app factory for Space Development Agency

The Space Force's Space Development Agency has tapped SAIC to build and maintain a cloud-based "application factory" to design, develop, test and deploy "cyber-resilient" battle management, command, control communications (BMC3) software for its planned satellites in low Earth orbit, according to SDA and company officials. The SDA contract is worth up to $64 million over four years. **#SAIC #SDA**

Link: https://breakingdefense.com/2023/06/saic-to-build-software-app-factory-for-space-development-agency/

Ariel, LLC Partners with Kivuda Space Networks for Mission Critical Connectivity

Kivuda Space Networks (KSN) and Ariel LLC have announced the signing of a Memorandum of Understanding (MoU) and Master Services Agreement (MSA) to bring a new level of high security and low latency satellite communications to the government market through low earth orbit (LEO) constellations. **#Ariel #KivudaSpaceNetworks**

Link: https://finance.yahoo.com/news/ariel-llc-partners-kivuda-space-141700839.html

South Korea invests 3.4 billion won to boost maritime and space security

The South Korean government is providing 3.4 billion won ($2.6 million) in funding for private companies as part of a pilot program to enhance security capabilities across maritime and space. **#SouthKorea #Investment**

Link: https://thereadable.co/south-korea-invests-3-4-billion-won-to-boost-maritime-and-space-security/

Chia Network and SpaceKnow Collaborate to Secure Spatial Data and Analytics for AgroTech Industry

Chia and SpaceKnow announced a collaboration to unlock actionable intelligence and data from space for the benefit of sustainability efforts, beginning with the AgroTech industry. **#ChiaNetwork #SpaceKnow**

Link: https://www.businesswire.com/news/home/20230427005196/en/Chia-Network-and-SpaceKnow-Collaborate-to-Secure-Spatial-Data-and-Analytics-for-AgroTech-Industry

REGULATION

GOVSATCOM implementation continues to advance

The implementation of GOVSATCOM, Europe's Governmental Satellite Communications programme, continues to move forward. Recently, the European Commission adopted three implementing Acts. These Acts provide the legal foundation for the services that GOVSATCOM, along with IRIS2, will offer. **#EUSPA #GOVSATCOM**

Link: https://www.euspa.europa.eu/newsroom/news/govsatcom-implementation-continues-advance

Ecuador signs Artemis Accords

Ecuador joined the growing roster of countries backing the Artemis Accords for safe and sustainable space exploration late 21. **#Artemis #Ecuador**

Link: https://spacenews.com/ecuador-signs-artemis-accords/

Space Security in Japan's New Strategy Documents

This commentary looks at how Japan's space security policy will change in the future. **#Japan #SpaceStrategy**

Link: https://www.csis.org/analysis/space-security-japans-new-strategy-documents

India signs Artemis Accords, tightening ties with US in space race with China

India has signed the Artemis Accords designed to set norms for exploration and exploitation of the Moon, Mars and potentially mineral-rich asteroids, in what Biden administration officials and experts say is a strategic win for US space policy. **#India #Artemis**

Link: https://breakingdefense.com/2023/06/india-signs-artemis-accords-tightening-ties-with-us-in-space-race-with-china-sources/

THREAT INTELLIGENCE

Military Satellite Access Sold on Russian Hacker Forum for $15,000

A hacker active on a Russian-language hacker forum has posted an advertisement offering access for sale to a military satellite operated by Maxar Technologies. The hacker's claim suggests that the potential buyers could gain access to sensitive information regarding the US military and strategic positioning. **#Hacking #MilitarySatellite**

Link: https://www.hackread.com/military-satellite-access-russian-hacker-forum/

TECHNOLOGY

Chinese chips have made their way into US government agencies
It seems that dubious Chinese encryption chips have made their way into the U.S. government agencies and international military organizations, as per a report by Wired. **#China #Chip**
Link: https://interestingengineering.com/culture/chinese-chips-in-us-government-agencies

True Anomaly launches new solutions to enhance cybersecurity in space
Space security company True Anomaly Inc. has today unveiled two new solutions that provide robust environments for high-precision testing and operator training for cybersecurity in space. **#Cybersecurity #Training**
Link: https://siliconangle.com/2023/06/22/true-anomaly-launches-new-solutions-enhance-cybersecurity-space/

★ **SpiderOak demonstrates cybersecurity software on orbit**
Cybersecurity specialist SpiderOak reported successful on-orbit testing June 22 of its OrbitSecure software running on a Ball Aerospace payload. **#Cybersecurity #SpiderOak**
Link: https://spacenews.com/spideroak-demonstrates-cybersecurity-software-on-orbit/

How can space quantum technology be advanced?
In partnership with the University of Bristol, the Strathclyde team is using recent developments in the fabrication and device integration of ultra-dilute micro-LEDs to advance space quantum technology. **#Quantum**
Link: https://www.innovationnewsnetwork.com/how-can-space-quantum-technology-be-advanced/34092/

Spirent Demonstrates Groundbreaking Signal Simulator for LEO PNT Satellite Constellations
Spirent, demonstrated the first fully certified Kima satellite constellation simulator, Umbriona, at the 2023 Joint Navigation Conference (JNC), in San Diego, CA from June 12-15, 2023. **#PNT #Satellite**
Link: https://www.everythingrf.com/news/details/16670-spirent-demonstrates-groundbreaking-signal-simulator-for-leo-pnt-satellite-constellations

Space Tech To Shrink As The Limits Of Quantum Physics Are Tested On Earth And Beyond
Scientists are to build technologies to use and study nanoparticles in space – pushing the limits of quantum technologies. A UK-wide consortium is developing technologies to use nanoparticles as state-of-the-art sensors on small, shoebox-sized satellites known as CubeSats. **#UK #Quantum**
Link: https://researcher.life/space-sky-news/space-tech-to-shrink-as-the-limits-of-quantum-physics-are-tested-on-earth-and-beyond/

US Global Positioning Systems Under Threat; The Emerging MagNav Could Take Over The GPS Soon
The advent of the Global Positioning System (GPS) made navigating much simpler. All existing systems are satellite-based and are in use not only by pilots in the air but also by drivers on the ground. **#GPS #MagNav**
Link: https://eurasiantimes.com/us-global-positioning-systems-under-threat-the-emerging-magnav-could-take-over-the-gps-soon/

TRAINING & EDUCATION

(CS)²AI Online™ Seminar: Space Asset Security and Resiliency
This session will discuss the status of cybersecurity within the space domain, past hacks, attack vectors and mitigation approaches of exploits. The session will also discuss the cyber security and space asset resiliency range and how it will be used to test and validate the assets' security and resiliency postures. Finally, the session will identify the current state of cybersecurity space policies and standards. **#Cybersecurity #Webinar**
Link: https://www.meetup.com/helsinki-cyber-security-for-control-systems/events/293736222/