



# ARCA SATCOM VPN

## Securing multi-orbit satellite communications

CYSEC is a European cybersecurity company, headquartered in Switzerland and with offices in Toulouse - France, providing innovative software products to secure critical infrastructures on ground and in space.



Today, many commercial satellite broadband services are unencrypted and vulnerable to eavesdropping attacks.

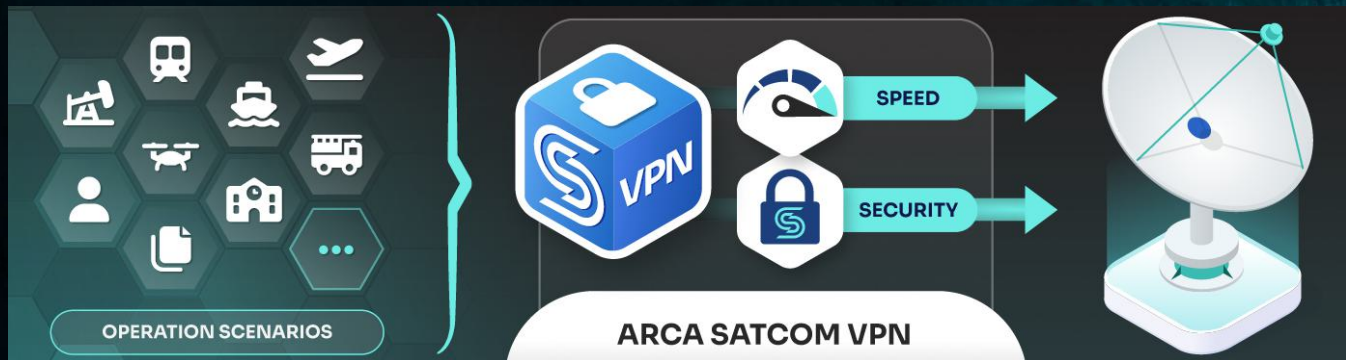
Up to now, the significant reduction of the link performances has been the block point preventing the adoption of end-to-end encryption of satellite communications.


To solve this issue, CYSEC developed ARCA SATCOM, **the first Performance-Enhancing Proxy (PEP) with built-in-encryption and authentication.**

ARCA SATCOM VPN implements end-to-end TLS-based cryptography over TCP while doubling the link throughput compared to a standard VPN.

# ARCA SATCOM IS THE FIRST VPN FOR SPACE INTERNET TO INTEGRATE SECURITY AND ACCELERATION

ARCA SATCOM VPN uses advanced technology to secure your data and make your space internet connection twice as fast as a standard VPN.



This solution has been awarded by  CNES with the SME Label.

## WHY TAKING ARCA SATCOM AS YOUR NEXT VPN?

### 1 - Raising Performance

Enjoy superior performance with our advanced VPN. ARCA SATCOM VPN solution improves the link throughput up-to 8 times without any additional latency compared to standard VPNs\*.

Performance report of ARCA SATCOM has been delivered and certified by CNES.

\*: compared to IPSEC with a standard Starlink subscription. See our Starlink video for more details.

### 2 - Security

Keep your satellite communications secure with our advanced VPN technology, specifically designed to shield your data & your constellation network from eavesdroppers and cyber threats in space.

### 3 - Advanced Encryption

Benefit from the highest level of encryption standards with our VPN. Utilizing TLS 1.3, we ensure that your network is protected with the most robust and standard-based encryption, ensuring compatibility with your existing PKI and keeping your space internet confidential.

### 4 - Plug & Play Convenience

Install and configure ARCA Satcom VPN with a Debian package and get an up and running VPN in a few seconds, and instantly enhance your network quality.

# ARCA SATCOM VPN IS COMPATIBLE WITH MULTI-ORBIT CONNECTIVITY

## GEO



## LEO



## THEY TRUST US



## STARLINK USE-CASE



### More than just an encryptor, ARCA SATCOM VPN boosts your connectivity

Increase the quality, performance and security of your starlink network with ARCA SATCOM VPN. As the first encryptor for space internet, ARCA SATCOM VPN by CYSEC not only boosts performance but also ensures your infrastructure is 100% reliable and secure, 24/7. ARCA SATCOM VPN protects your starlink network, keeping your data safe at all times.

## CHECK THE FOLLOWING DEMOS



ARCA SATCOM VPN



ARCA SATCOM VPN vs IPSEC



## About CYSEC

CYSEC provides world-leading, high-performance cybersecurity tools to ensure robustness, confidentiality, and integrity for space internet networks and critical infrastructures.

Founded in 2018 by experienced cybersecurity experts, CYSEC has grown into a team of over 30 employees, with more than 10 experts dedicated to the space industry. As a pioneer in European off-the-shelf cybersecurity products for newspace missions, CYSEC is setting the standard for end-to-end protection in the rapidly evolving space sector.

CYSEC Flagship Products :

**ARCA SATLINK LIB:** Offers end-to-end protection for satellite operations, securing the TMTC (Telemetry, Tracking, and Control) link both on board and on the ground.

**ARCA SATCOM VPN :** Ensures secure satellite communications without compromising performance.

**ARCA Trusted OS:** Enables secure cloud-to-cloud architecture both on board and on the ground, providing robust protection across all environments.

For more information, visit [www.cysec.com](http://www.cysec.com) or scan the QR code.



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