



GOVERNMENT



MARITIME



ENERGY



ENTERPRISE

# Cysec

Encryption



Encryption

THURAYA 

## About Cysec

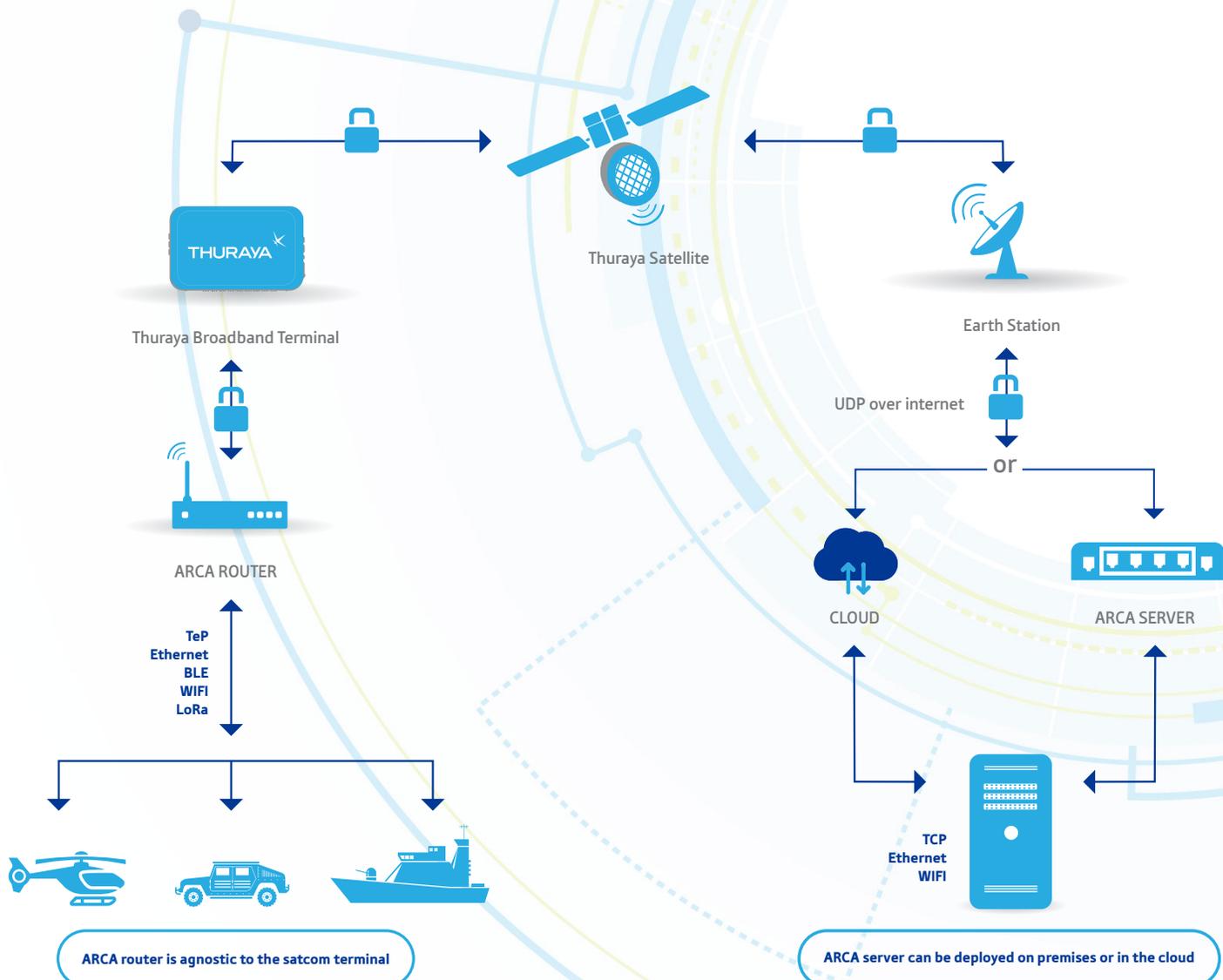
CYSEC has designed ARCA SATCOM specifically for satellite data communications. The solution provides performance enhanced capabilities for data users by integrating cutting-edge encryption technologies.

This feature fortifies Thuraya's network, empowering seamless transmission and reception of encrypted data without compromising connectivity or performance.

The offering of constant and uninterrupted connectivity is of critical importance to various entities including governments, remote enterprise establishments, core heavy industries, utilities communications, the military, and the overall deployment of secure IoT devices and services. The solution provides customers with flexible options to accommodate different use cases as its end-to-end encryption is based on international standards optimized for satellite networks.

## How does it work?

- ARCA SATCOM is an encryption and authentication solution Performance Enhancing Proxy (PEP)
- Implements end-to-end TLS cryptography over TCP while the link throughput is optimized compared to standard VPN
- The goal of ARCA SATCOM is to reach an attractive trade-off between link performances and data protection



## Benefits

- Designed and optimized specifically for Satcom networks
- Flexible Deployment models
- Easy to use interface/ Plug and play
- Allows for full encryption and security without impacting performance
- Federal Information Processing Standard (FIPS) certified
- Reduction of the number of round-trips and acknowledgment messages (ACK) by an innovative Performance Enhancement Proxy (PEP)
- Protection of the data as well as the metadata, similar to VPN
- End-to-end encryption based on the TLS 1.3 and AES-GCM standards
- User Experience enhancement up to 2-fold increase the perceived link throughput compared to a standard VPN

## Use Cases

Enables Thuraya to offer secure data communications to our current customers which can open up opportunities with security sensitive applications with end users such as:

- Government
- Military
- Oil and Gas
- Enterprise
- Utilities
- IoT

## Thuraya broadband terminals certified to work with CYSEC

Thuraya IP Broadband Data products

## Support

For help and support, please contact:  
Thuraya: [customer.care@thuraya.com](mailto:customer.care@thuraya.com)