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**SecuriVPN®**

**Secure video  
conferencing  
over satellite links**



Besides offering operational efficiency while cutting costs and environmental impact, video conferencing is crucial for handling crises situations when travel and work on location is difficult or impossible. However, digitalisation in general increases attack vectors, with video conference deployments particularly susceptible to eavesdropping by foreign intelligence and other advanced cyber attacks.

# Secure video conferencing over satellite links

Governmental agencies, armed forces and other organisations handling information connected to national security interests have to be able to share classified information via satellite link when involved in critical operations around the world. The nature of the information makes it necessary complementing embedded security functions of the conferencing systems with network encryption solutions that are certified and approved to handle classified information. With the unique SecuriVPN not only supreme security is accomplished, but satellite communication's usual long delays and jitter is compensated automatically.

## Easy to set up, quality experience

SecuriVPN is designed satisfy the most demanding defence requirements and optimised for easy deployment into the existing network infrastructure. It supports quality of service, high availability with advanced failover functionality and redundancy routing protocol.

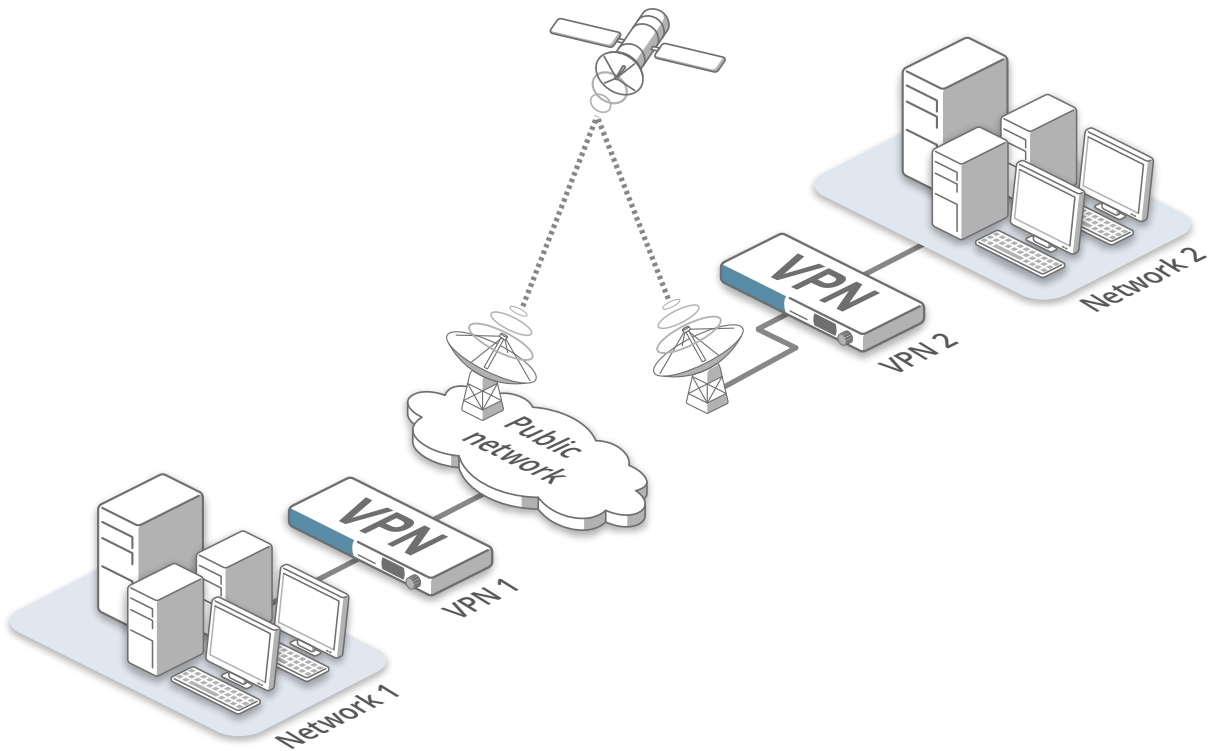
## How SecuriVPN works

Placing a SecuriVPN ED100 device between the video conference (VC) system and both sides of the carrier network has the same effect as a dedicated secure point-to-point connection. Communication is carried out via cryptographically protected tunnels through the carrier IP network. Quantum-secure cryptographic algorithms and protocols guaranties long term communication privacy.

## Example layout

Satellite links are characterised by low bandwidth, long delays, high jitter and packet loss. The illustration shows a satellite link setup that uses two Rockwell Collins Suitcase CCT120 satellite terminals over a Sirius satellite.

To meet the bandwidth requirement of the VC system a 2x4 MHz link is used, achieving a 2x5000 bps communication link. The VC system is configured with a 720p resolution. Although the SecuriVPN ED100 can explicitly be configured to compensate for long delay and high jitter satellite links, it is not necessary in this specific layout as SecuriVPN ED100 works out of the box.



## Result

The SecuriVPN ED100 encryption devices delivers the service demanded by the VC system and satellite link. No special configurations are necessary in order to make the transaction processing system work, without negative effect from the satellite link.

## SecuriVPN benefits

- Superior communication privacy with Advenica's advanced technologies, quantum-secure algorithms and Three Domain Separation.
- Adjusts to Network Characteristics: Automated compensation for satellite link delay and jitter.
- Easy to deploy into existing network infrastructure – operational within minutes.
- Easy to use and intuitive to manage.
- Provides maximum protection in line with national and international regulations.



Advenica provides expertise and world-class high assurance cybersecurity solutions for critical data in motion up to Top Secret classification. We enable countries, authorities and companies to raise information security and digitalise responsibly. Founded in 1993, we are EU approved to the highest level of security. Our unique products are designed, developed and manufactured in Sweden.

**Read more at [advenica.com](https://advenica.com)**



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