



Powering Global Connectivity

# Av-Comm's Cloud Transformation with AWS and Xoriant



## Executive Summary

For over 40 years, Av-Comm Space & Defence has been a cornerstone in satellite communications, enabling seamless connectivity for businesses, governments, and defense operations worldwide. Whether providing mission-critical communications in remote locations or ensuring the smooth operation of global networks, Av-Comm's commitment to innovation remains steadfast. As the industry rapidly evolves, modernizing its cloud infrastructure was not just an upgrade—it was a strategic imperative.

To ensure its digital backbone was resilient, scalable, and future-ready, Av-Comm partnered with Xoriant to migrate its cloud operations to AWS. Leveraging Xoriant's expertise in Engineering Platforms for Growth, the transition was executed with zero disruption, reinforcing Av-Comm's leadership in high-performance satellite communications.



A global leader in satellite communications for over 40 years, the Av-Comm Space & Defence is a leader in satellite communications, delivering reliable, high-performance solutions that keep businesses and defense operations connected. Their expertise ensures seamless connectivity in some of the toughest environments, making them a trusted technological development partner. With innovation at their core, they provide cutting-edge technology that powers critical communications worldwide.

## Navigating the Cloud: Scaling with Precision and Security

Av-Comm had been operating on a fragmented, manually managed cloud infrastructure on Azure, which introduced operational inefficiencies and posed limitations to its scalability. To maintain its industry leadership, Av-Comm needed a more agile, secure, and high-performance cloud ecosystem that could effortlessly support its growth ambitions. Key requirements included:

- ▶ **Seamless Cloud Migration:** Ensuring minimal downtime and zero disruption to critical satellite communications.
- ▶ **Scalability & Performance:** Enhancing database response times and streamlining workloads.
- ▶ **Security & Compliance:** Strengthening security measures through VPN and subnet isolation backup and recovery framework.
- ▶ **Automated Infrastructure:** Reducing manual dependencies with automated deployment and management.
- ▶ **Disaster Recovery Readiness:** Implementing a robust backup and recovery framework.

Av-Comm required a **stable, automated cloud platform with separate production and staging environments** to support website testing, publishing, and secure operations.

## Why AWS and Xoriant?

The decision to migrate to AWS was driven by the need for better scalability, security, and cost efficiency. AWS provided:

- **Reliability & Performance:** AWS RDS and EC2 enhanced database response times and overall service performance.
- **Automated Infrastructure:** Terraform provisioning ensured rapid deployment and repeatability.
- **Improved Security:** VPN and subnet configurations strengthened security measures.

Xoriant, with its expertise in cloud transformation, ensured a seamless migration with minimal downtime and maximum efficiency.

# The Xoriant Approach: Engineering a Future-Ready Cloud with AWS

With decades of expertise in cloud **transformation and digital engineering**, Xoriant orchestrated a precision-driven **AWS migration strategy** to unlock **scalability, agility, and resilience** for Av-Comm.

## 1 Seamless Lift-and-Shift Migration

Xoriant executed a meticulously planned migration, moving Av-Comm’s critical infrastructure from Azure to AWS with near-zero downtime. By leveraging **AWS EC2, RDS, and automated provisioning**, we ensured an efficient transition while maintaining operational integrity.

## 2 Enhanced Security & Compliance

To safeguard Av-Comm’s mission-critical operations, Xoriant designed a **highly secure cloud environment** featuring **VPN & subnet separation**, reducing cyber exposure and strengthening data security.

## 3 Scalable & Automated Infrastructure

Xoriant integrated **Terraform-based automated provisioning**, allowing Av-Comm to rapidly **redeploy its cloud environment** in any AWS region. This not only improved disaster recovery capabilities but also enabled **elastic scaling** to meet dynamic operational demands.

## 4 Optimized Performance & Reliability

By migrating databases to **AWS RDS**, we significantly enhanced response times and workload efficiency, allowing Av-Comm to **deliver seamless connectivity** without performance bottlenecks.

## The Outcome: A Cloud-Powered Future

Following the migration, the client saw **immediate improvements** in performance, security, and scalability:



### 99.99% Uptime

Ensuring uninterrupted satellite communications



### Better Performance

AWS RDS significantly improved response times compared to the previous platform



### 40% Improvement in Response Time

Optimized database performance with AWS RDS



### Scalability & Flexibility

Automated scaling allowed for efficient workload management, reducing operational overhead



### Enhanced Security:

VPN and subnet separation reduced exposure to cyber threats



### Repeatability

The entire environment can be redeployed in any AWS region with minimal effort

With AWS, our client now has a **robust, automated, and high-performing cloud platform** that supports growth and innovation in satellite communications and digital marketing.

## Voice of the Customer

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*Xoriant’s expertise in cloud transformation has empowered us with a scalable, secure, and high-performance AWS platform, allowing us to focus on what we do best—delivering seamless global satellite communications. Their engineering-driven approach ensured a flawless migration, and we now have the agility and resilience needed to drive innovation and scale effortlessly.*

**Santhan Naidoo**  
Chief Operating Officer, Av-Comm

## About Xoriant

Xoriant is a Silicon Valley–headquartered digital product engineering, software development, and technology services firm with offices in the USA, UK, Ireland, Mexico, Canada and Asia. From startups to the Fortune 100, we deliver innovative solutions, accelerating time to market and ensuring our clients’ competitiveness in industries like BFSI, High Tech, Healthcare, Manufacturing and Retail. Across all our technology focus areas—digital product engineering, DevOps, cloud, infrastructure, and security, big data and analytics, data engineering, management and governance—every solution we develop benefits from our product engineering pedigree. It also includes successful methodologies, framework components, and accelerators for rapidly solving important client challenges. For 30 years and counting, we have taken great pride in our long-lasting, deep relationships with our clients.