

# Cloud-based Computing and Data Services for the U.S. Air Force

## Executive Summary

The Air Force needed to extend its cloud-based computing and data services to edge locations with minimal latency to meet mission-critical demands in remote, disconnected, or mobile environments. Strategic Communications' solution delivered the power and flexibility of AWS cloud services directly to the field, regardless of location or connectivity conditions.

## Challenges

Traditional cloud infrastructure is **not sufficient for remote, disconnected, or mobile environments** like deserts, airborne locations, or undersea missions, which are prone to increased latency and unreliable connectivity.

There was a clear need to bring the power of AWS services, particularly Amazon SageMaker, directly to the field **without relying on constant internet connectivity**.

Deploying and testing AWS Outpost in non-traditional, constrained settings required **technical agility and deep integration expertise**.

## Solution

Strategic Communications utilized its close partnership with AWS to leverage an in-scope contract modification to deploy, integrate, and test AWS Outpost for the client. **AWS Outpost is a fully managed service that extends AWS infrastructure and services to virtually any on-premises or field location.** Strategic Communications configured Outpost to operate in highly variable and constrained environments. The solution brought capabilities like Amazon SageMaker to the field, **facilitating data analysis and rapid decision-making directly where operations occurred.**

## Results

The project was a proof of concept and has since concluded. The client was highly satisfied, and the proof of concept met key government success criteria. Key results include:



Delivered *first-of-its-kind* field-deployable AWS services.



Enabled faster decision-making, enhanced data analysis, and reduced human error.



Improved mission effectiveness through real-time, field-accessible AWS tools.



Provided real-time cloud functionality without internet dependency, and reduced latency for mission applications.

# Cloud-based Computing and Data Services for the U.S. Air Force

## Why Strategic Communications

Strategic Communications provides the latest Amazon Web Services (AWS) cloud solutions for organizations of all sizes; as an AWS-certified partner, Strategic Communications consults, designs and deploys an array of services, including Infrastructure, Platform and Software (IaaS, PaaS and SaaS).

**Strategic Communications'** partnership with AWS and experience with the Department of Defense enabled them to:

- Leverage DoD-specific contracts to quickly and compliantly deliver services.
- Collaborate effectively with AWS and other defense contractors in a secure, high-stakes environment.
- Demonstrate technical leadership in deploying cutting-edge cloud infrastructure in remote and operationally constrained settings.

As a result, Strategic Communications helped warfighters gain faster access to crucial data and tools, enabling them to make timely, accurate decisions under operational stress, ultimately aiming to reduce risk and save lives.

## About Strategic Communications

**Strategic Communications**, headquartered in Louisville KY, is an Information Technology (IT) and Audio-Visual consultant focused on AV systems, AWS & Microsoft Cloud, Cyber Security, and Network Engineering.

Founded in 1994, Strategic Communications works with enterprise businesses and government agencies across the United States, delivering solutions to fit business requirements. Leveraging their partner relationships, business longevity, and experience, we provide clients with the highest level of customer support.

