

# AlarisPro x ArgenTech

## UAS Maintenance Program: A Make or Break for Operations



### AT A GLANCE

#### Challenges

- Multiple Spreadsheets
- Isolated and Disparate Data
- Difficulty Tracking Maintenance
- Lack of Crew Readiness Insights

#### AlarisPro Benefits

- Consolidated Fleet Management Platform
- Integrated Data between Crew, Flights and Maintenance
- Component Level Maintenance Documentation
- Crew Currency, Certification and Training Tracking



"Maintenance makes or breaks our programs! The efficiency of consolidating all our data into one platform has really saved us time and improved safety. AlarisPro provides the data tracking capabilities we need to take our UAS program to the next level."

**Jeremy Jones**

UAS Sales & Development



### THE CHALLENGE

ArgenTech's UAS maintenance program consisted of multiple technicians using disjointed spreadsheets and other outdated methods of tracking maintenance data. UAS maintenance needs were often overlooked due to the decentralized process of data capture. ArgenTech was seeking a comprehensive tool that would enable proper documentation for all stakeholders involved with UAS operations.

### THE SOLUTION

AlarisPro's intelligent data platform provides ArgenTech with the capability to track and maintain aircraft at the component level. Aside from just maintenance activity tracking, AlarisPro also provides a comprehensive and integrated solution to capture relevant company-wide data that is necessary to ensure the operational capability of every component across every system in ArgenTech's UAS fleet.

### WHY ALARISPRO?

AlarisPro helped ArgenTech identify a critical airworthiness issue affecting a main drive belt, a major component on an aircraft in their fleet. AlarisPro identified the issue by analyzing the de-identified data from other operators who were flying the same aircraft model and experiencing the belt failure which, in some cases, resulted in aircraft and payload loss (typically LiDAR). As a result, AlarisPro had insights about this issue before other industry stakeholders, which allowed them to alert users of this particular model aircraft to potential issues thus preventing additional loss. The insights from AlarisPro's crowdsourced data were what first drew ArgenTech to AlarisPro.

AlarisPro is the only comprehensive fleet management SaaS platform available on the market. The combination of real-time data and component-level tracking simplifies UAS maintenance operations and increases program reliability.

## ALARISPRO BENEFITS

### Comprehensive Fleet Management Platform

AlarisPro compiles all program data into one easy-to-use portal, which quickly and accurately keeps track of all company aircraft, pilots, and missions.

### Program Credibility

Utilizing AlarisPro to diligently track operations and maintenance signals to regulators that a UAS program is compliant, professional, and has a focus on safety and documentation – all key factors when presenting a safety case for expanded operations, D&R documentation for Type Certification or compliance with Part 135 maintenance recordkeeping requirements.

### Operational Assurance

The implementation of manned aviation practices to unmanned aircraft further displays a commitment to safety and reliability and ensures safe flight. Additionally, many contracts require verification that a contractor is maintaining this level of detail in documenting their operations.

### Maintenance Documentation

Through AlarisPro, organizations can document and track components and preventative maintenance on their aircraft. Since flight logs are integrated with maintenance, organizations can see what's coming due when and document those changes within the software.

### Crew Tracking

Easily track pilot requirements including currency, certification and training to ensure crew readiness. Additional reports show pilot hours per month, instructor pilot time and simulator time.

### Favorable Insurance Rates

Insurance costs are favorably impacted due to the ability to prove well-maintained and documented systems are being operated by qualified crews.



"We've been really impressed with AlarisPro's ongoing support and willingness to view us more as a partner than customer. They've been open to feedback and the software has enabled our operations to scale."

**Rita Castonguay-Hunt**  
Commercial UAS Services  
ArgenTech Solutions

## About AlarisPro

Designed by military aviators and civilian UAS experts, the AlarisPro SaaS platform equips UAS operators, maintenance professionals, and manufacturers with the critical safety and reliability data needed to manage and optimize their unmanned systems and subsystems. Headquartered in Baltimore, Maryland, AlarisPro is proud to serve hundreds of UAS manufacturers and operators across the globe.

## About ArgenTech

ArgenTech Solutions, Inc. (AgTS) is a USA-based, Veteran-Owned, Small Business. AgTS has extensive experience and competence in managing complex technical services 24/7, world-wide, in support of unmanned aircraft systems, as well as other highly technical disciplines and services. They provide innovative, cost effective solutions to their customers, often in hostile and austere environments.

The screenshot displays the AlarisPro interface. At the top, there is a navigation menu with options like Dashboard, Flight, Maintenance, Projects, Reports, Batteries, My Settings, and Help. Below this, there are two main sections:

- New Aircraft Discrepancy:** A form for reporting issues. It includes fields for Maintenance Person (Bob Smith), Log Date, Log Time, and Attach a File. There are radio buttons for 'Critical Discrepancy - Aircraft is Grounded' and 'Deferred Discrepancy'. A blue 'Add Discrepancy' button is at the bottom right.
- Open Aircraft Discrepancies - Hawk 150-0022:** A table listing active discrepancies.
 

Resolve	Date	Maint. Person	UAS	Time in Service (Hrs)	Description	Attached File
<input type="checkbox"/>	9/1/2021	Bob Smith	Hawk 150-0022	15.98	Conduct detailed inspection prior to next flight due to firm landing.	
<input type="checkbox"/>	9/1/2021	Bob Smith	Hawk 150-0022	15.98	Scratch (bare metal) repair from firm landing. No impact to airworthiness. Deferred.	
- Maintenance Logs - Hawk 150-0022:** A table showing historical maintenance events.
 

Date	Maint. Start Time	Maint. Person	UAS	Time in Service (Hrs)	Action	Component Replaced	Remarks	Attached File
9/2/2021	07:00	Bob Smith	Hawk 150-0022	15.98	Preflight		50 hour inspection complete	
8/31/2021	06:00	Bob Smith	Hawk 150-0022	15.98	Other		Sign off discrep	
8/24/2021	06:00	Orville Wright	Hawk 150-0022		Component Replacement	Muffler (H-time)	Replaced muffler. Stricken Aug 26, 2021 By: Demo Admin	
6/25/2021	09:00	Bob Smith	Hawk 150-0022	5.15	1st Level PM	Alternator (H-time)	PM1 Complete.	

Screenshot of AlarisPro's Maintenance Log Page