Fleet Watch

AlarisPro Newsletter

ALARISPRO®
Fleet Management Platform

Fleet Management Software Driving the Future of Unmanned Aviation

FLYING INTO A NEW ERA

Your Partner in Safety, Compliance, and Confidence.

Welcome to **Fleet Watch**, your trusted source for updates, insights, and innovations from AlarisPro. As we move from fall into winter, UAS operators are entering a critical planning window defined by evolving regulations, seasonal operating challenges, and the need to prepare for expanded operations in 2026.

This season marks a clear turning point for UAS operations. NASA's SBIR award advancing our AI-driven Safety and Reliability Digital Twin technology, the FAA's forthcoming Part 108 shaping Beyond Visual Line of Sight (BVLOS) operations, and AlarisPro's expanding partnerships across critical sectors all underscore one fact: AlarisPro is leading operators and OEMs into a safer, more reliable future with innovations, collaborations and data-driven insight.

As the UAS industry enters a new era of regulatory evolution and operational maturity in 2026, AlarisPro will celebrate 10 years of advancing aviation-grade safety, compliance, and reliability, supporting operators and OEMs as they prepare for expanded BVLOS operations and the next chapter of unmanned aviation. Here's what's inside this edition of *Fleet Watch*:

- **FAA Part 108: BVLOS Rule Impact**
  Get actionable insights into the FAA's forthcoming Part 108 rule and how AlarisPro's Digital Twin technology helps operators achieve compliance faster and more confidently.

- **Expanding Customer Base**
  Leading operators and OEMs, including major utilities and international manufacturers, are joining the AlarisPro ecosystem to strengthen safety, compliance, and BVLOS readiness.

- **Utilities Customer Advisory Board**
  Discover how senior leaders from top energy and infrastructure organizations are shaping AlarisPro's road map for inspection readiness, predictive maintenance, and scalable BVLOS operations.

- **Research, Collaborations & A Connected Safety Network**
  Learn how our partnerships with NASA and Fraunhofer Institute are advancing AI-driven safety, reliability, and predictive modeling for the next generation of UAS operations.

- **OEM Partner Benefits**
  As BVLOS readiness matures, OEMs are central to continued airworthiness and compliance oversight. Discover how AlarisPro enables manufacturers to extend product lifecycle value with fleet-wide visibility, proactive support tools, and configuration management.

- **And More!**
  Stay mission-ready with tips to maximize features, seasonal reminders and a look ahead at upcoming tools & resources.

Be sure to stay tuned for the next issue of FLEET WATCH in early 2026!

REGULATORY INSIGHT & PREPARATION FOR PART 108

As the industry moves into winter operations and year-end planning, the FAA's forthcoming Part 108 rule continues to shape how operators prepare for Beyond Visual Line of Sight (BVLOS) missions in 2026 and beyond. This next phase of regulation raises expectations for safety management, data integrity, and fleet-wide transparency, making early preparation essential.

Success under Part 108 requires more than policy awareness. Operators will be expected to demonstrate:

- **Integrated Safety Management System (SMS)** to ensure consistent risk identification, mitigation, and reporting

- **Operational Insight** that supports predictive risk identification, trend analysis, and proactive safety decision-making across the fleet

- **Fleet-Wide Traceability** to support configuration histories, maintenance records, and component performance data across every aircraft

AlarisPro brings these elements together as a comprehensive compliance map to enable operators to visualize readiness, identify gaps, and confidently demonstrate compliance as regulatory expectations evolve.

COMING SOON: AlarisPro's BVLOS Compliance White Paper

To support operators during this critical planning window, AlarisPro is finalizing a 22-page regulatory insight white paper designed to serve as a practical guide to Part 108 readiness. This in-depth resource explores regulatory intent, operational impacts, and how AlarisPro can accelerate permit and certification preparedness while reducing audit friction. Exclusive early access will be available to subscribers before public release in mid-January. **SIGN UP FOR EXCLUSIVE EARLY ACCESS**

YOUR INTUITIVE PATH TO SCALABLE UAS BVLOS COMPLIANCE

PILOTS   SMS   ALERTS   AIRCRAFT   PROJECTS   DOCUMENTS   MAINTENANCE

Set the standard. Stay ahead.

Predictive Maintenance

Safe & Scalable BVLOS-Ready Operations with AlarisPro

Continued Airworthiness - System and Component Reliability Tracking

Program & Records Management

SMS & FRAT - Safety Reporting & Metrics

Issues Reporting & OEM Communications

EXPANDING TRUST ACROSS INDUSTRIES

AlarisPro proudly welcomes PSEG, American Water, and Wingcopter into our growing ecosystem. These leaders span critical infrastructure and international UAS manufacturing, leveraging our platform to enhance operational reliability and ensure readiness for Beyond Visual Line of Sight (BVLOS) missions.

PSEG

A leading U.S. energy and utility provider serving millions of customers across the Northeast, PSEG supports electric and gas infrastructure operations with a strong focus on safety, resilience, and regulatory compliance. The organization continues to advance UAS-enabled inspection programs to improve asset visibility, operational reliability, and workforce safety across critical infrastructure.

AMERICAN WATER

As the largest publicly traded water and wastewater utility company in the United States, American Water delivers essential services to communities nationwide. The company leverages innovative technologies, including UAS-supported inspection and monitoring, to enhance infrastructure integrity, operational efficiency, and environmental stewardship.

OWA

A U.S.-based UAS manufacturer delivering mission-critical aircraft for public safety, infrastructure, and security operations. With a focus on reliability, endurance, and regulatory alignment, Overwatch Aero leverages AlarisPro to support fleet-wide visibility, continued airworthiness, and scalable BVLOS readiness.

SHAPING THE INDUSTRY TOGETHER

AlarisPro
Customer Advisory Board

UTILITIES CUSTOMER ADVISORY BOARD:

Complementing this growth is our new Utilities Customer Advisory Board (UCAB). This collaborative forum brings together leading utility industry operators to shape AlarisPro's roadmap, ensuring our solutions evolve in direct response to real-world needs.

Key members include senior leaders from utility companies pioneering UAS adoption for infrastructure monitoring and asset management. Their direct feedback helps ensure that AlarisPro's platform remains aligned with evolving industry needs.

Inspection Readiness:
CAB members help streamline workflows to strengthen compliance, improve inspection efficiency, and support scalability across utility operations.

Safety Management:
Leveraging their operational insight, members guide the refinement of our Safety Management System (SMS) and Flight Risk Assessment Tool (FRAT) features to address the unique challenges

BVLOS Scalability:
Their expertise informs AlarisPro's roadmap, enabling confident, standards-aligned adoption of Part 108 and other Beyond Visual Line of Sight (BVLOS) initiatives.

COLLABORATIVE IMPACT:

Through these valuable partnerships and direct operator feedback, AlarisPro is accelerating the development of tailored solutions with:

- **Improved Inspection Capabilities**
- **Optimized Safety Management Systems (SMS)**
- **Operational scalability**

This collaborative approach ensures that utility stakeholders remain leaders in innovation, driving trust and innovation across the ecosystem.

Ready to take your operations beyond visual line of sight?
Contact us today to explore how AlarisPro can help you navigate the path to BVLOS approval with confidence.

ADVANCING INNOVATION THROUGH RESEARCH

What AlarisPro is doing for aviation carries the same spirit as our automotive AI breakthroughs, but on a far more complex scale. We're bringing the proven power of proactive intelligence from the road into the skies."

— Jeno Szep, Senior Research Scientist, Fraunhofer USA

Read the Full Press Release

In partnership with Fraunhofer USA Center Mid-Atlantic, led by Dr. Adam Porter, a renowned AI and software engineering expert and member of AlarisPro's Strategic Advisory Board, we're advancing the frontiers of predictive maintenance and aviation safety.

Building on our NASA-funded Artificial Intelligence Safety and Reliability (AISR) Digital Twin Project, this collaboration integrates Fraunhofer's deep expertise in machine learning and systems validation with AlarisPro's aviation-grade fleet data and component-level reliability modeling.

This partnership represents a powerful alignment of research and application:

- AI-powered anomaly detection to identify issues before they impact performance
- Enhanced predictive models to extend component lifespan and reduce downtime
- Validated system-level testing to inform evolving UAS safety and certification standards

Together, we're developing an AI-enhanced Digital Twin framework that delivers real-time insight into system health, predictive maintenance, and operational risk; empowering UAS operators, OEMs, and regulators to safely expand unmanned operations within the National Airspace System (NAS). By joining forces with Fraunhofer USA, AlarisPro continues to lead the charge in transforming data into actionable intelligence, delivering the next generation of proactive, compliance-ready aviation safety solutions.

BUILDING A CONNECTED SAFETY & COMPLIANCE NETWORK

AlarisPro's partner network brings together leading regulators, insurers, government agencies, and technology providers to deliver a connected ecosystem:

- Trusted, aviation-grade operational data
- Validated safety and maintenance processes aligned with Part 108
- Shared accountability across operators, OEMs, insurers, and regulators
- A unified operating environment supporting scalable BVLOS operations

Together, these partnerships deliver a comprehensive view of operations and empower operators, OEMs, and insurers, with shared confidence in safety, reliability, and readiness.

Recognized across the industry for leadership in BVLOS compliance and Part 108 readiness. By consolidating reliability data and standardized reporting into a single system, AlarisPro helps operators engage the FAA with clarity, accuracy, and audit-ready documentation.

Selected by USAIG as the fleet management and safety solution supporting its Performance Vector Unmanned Program. AlarisPro equips operators who are active USAIG policyholders with aviation-grade reliability tracking, airworthiness documentation, and predictive maintenance tools to strengthen risk management and supporting safer, more insurable operations. **Click to Read the full Press Release**

AlarisPro connects seamlessly with leading UAS technology providers through a robust API framework that unifies operational data across your enterprise. Our integrations ensure your aircraft, pilots, and back-end systems stay synchronized at every stage of your missions.

Connected with:
- *US Forest Service • ResilienX • TruWeather • PX4*
- *Pixhawk • Skydio Cloud • Airspace Link AirHub™*
- *ArduPilot • OneSky • Southern Company • Windracers*

INDUSTRY MOMENTUM

COMMERCIAL UAV EXPO

Earlier this fall, AlarisPro engaged with operators, OEMs, and regulators at Commercial UAV Expo (CUAV), where conversations centered on one clear theme: the industry is actively preparing for BVLOS at scale.

Across meetings and discussions, operators consistently asked:

- How will Part 108 change expectations for SMS and maintenance traceability?

- What evidence will regulators expect to see during certification and audits?

- How can predictive maintenance reduce downtime as operations expand?

AlarisPro's role in these conversations reinforced our position as the compliance and reliability partner, helping organizations transition from waiver-era tools to data-driven, audit ready operations.

LOOKING AHEAD TO XPONENTIAL 2026

XPONENTIAL™

Visit Us at Booth #27005

As the industry prepares for a pivotal year, AlarisPro is already planning for a strong presence at XPONENTIAL 2026, where BVLOS readiness, Digital Twin intelligence, and scalable compliance will take center stage. We look forward to continuing conversations with operators, OEMs, and regulators as Part 108 transitions from waivers to operational reality. Stay tuned for more details in the coming weeks!

May 11 – 14, 2026 | Education   May 12 – 14, 2026 | Exhibits   Detroit, MI | Huntington Place

the technology event for

AUTONOMY

SUPPORTING THE FULL AIRCRAFT LIFECYCLE

For UAS manufacturers, success doesn't end at delivery.

Long-term reliability, regulatory alignment, and customer trust are built through continuous visibility into how aircraft perform in real-world operations.

AlarisPro enables OEMs to extend their role beyond production, serving as a post-sale operational partner with fleet-wide insight and configuration intelligence.

With AlarisPro, OEMs gain:

- Fleet-wide visibility into aircraft configuration, maintenance history, and component performance

- Configuration and airworthiness management to support evolving regulatory and service requirements

- Proactive communication tools to distribute service bulletins, updates, and safety notices directly to operators

- Data-driven feedback loops that inform design improvements, reliability modeling, and supporting strategies

By bridging the gap between manufacturer intent and operational reality, AlarisPro helps OEMs strengthen customer relationships, reduce support friction, and align
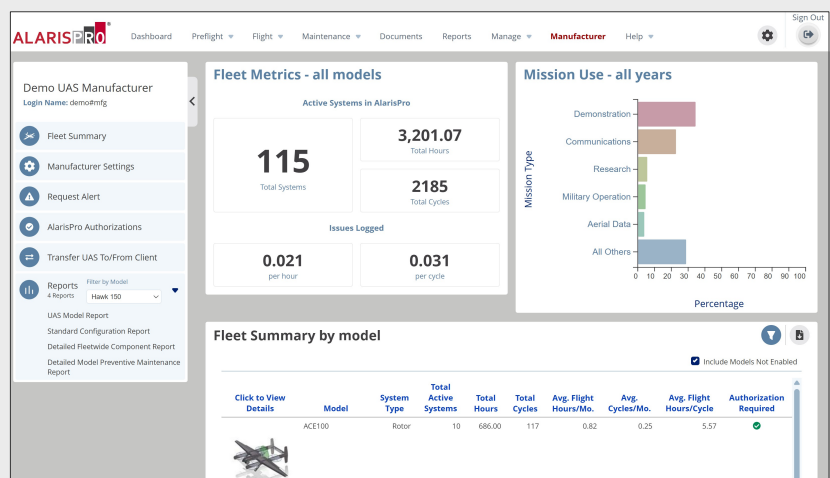
Turn Operational Data into Engineering Intelligence

Part 108 *sections §108.105, §108.115, §108.130, §108.135, §108.140, §108.160, §108.740, §108.750, §108.760, §108.860, and §108.895* collectively introduce new expectations for aircraft configuration control, performance limitations, maintenance and inspection programs, continued operational safety, reliability monitoring, record-keeping, and ongoing compliance oversight - areas where OEMs play a critical and increasingly visible role.

✅ Fully Compliant

AlarisPro is purpose-built to support alignment with these requirements, allowing OEMs to support continued airworthiness, demonstrate compliance with evolving Part 108 requirements, and reduce certification, audit, and post-sale support friction.

Contact us today to schedule an OEM strategy call and discuss how AlarisPro can transform your post-sale ecosystem.

QUICK TIPS: MAXIMIZING PLATFORM VALUE

As operations transition into winter, now is the time to ensure your fleet remains mission-ready. AlarisPro helps teams stay connected and responsive with mobile access to real-time fleet data, maintenance status, and readiness indicators, whether in the field or at headquarters.

Seasonal best practices include:

- Reviewing SMS and FRAT criteria for winter operating conditions

- Verifying spare parts inventory and component replacement thresholds

- Ensuring crew training and currency remain up to date

For detailed guidance on platform features and workflows, visit the knowledgebase in your AlarisPro account to make the most of your subscription.

Part 108 Section	Requirement (NPRM Intent)	AlarisPro Capability	Status	Notes / Evidence
§108.105	Unmanned aircraft condition for safe operation: Aircraft must be safe to operate	Configuration and Continued Airworthiness tracking, Grounded and Functional Check Flight (FCF) status	☑ Fully Compliant	Real-time component-level visibility and predictive insights to maintain airworthiness
§108.40	Operator recordkeeping: Maintain flight, safety, maintenance, crew, training, irregularity, and return-to-service logs	Unified fleet record system: flight logs, maintenance logs, SMS records, spares and components tracking	☑ Fully Compliant	Platform centralizes 'single source of truth' for fleet ops & maintenance; audit-ready format
§108.45	Operator reporting: Interruption/service difficulty/security occurrences	SMS + safety reporting with configurable forms and registers, OEM reporting, fleet summary reports, & issues and deviation documentation	☑ Fully Compliant	Unlimited custom safety forms, risk registers, and occurrence tracking support incident/near-miss reporting
§108.555	Inoperative equipment: Identify, assess, log, mitigate	Discrepancy tracking, custom inspections, grounding status	☑ Fully Compliant	Grounded/FCF states, corrective actions, and sign-offs tracked in aviation-grade logs
§108.860	Software Assurance	Configuration & version tracking for all firmware and software associated with each UAS	☑ Supported with OEM partnerships	Relies on OEM to notify users through the OEM portal.
§108.890	Operating environment: Weather/envelope adherence	Integrated METAR/TAF, TruWeather forecasting; FRAT/SMS workflows	☑ Fully Compliant	Documented environmental constraints and go/no-go logic in preflight

COMPLIANCE CORNER

As BVLOS operations mature, regulators are increasingly focused on evidence, not intent. Documentation is expected to demonstrate:

- Continuous safety oversight

- Traceable maintenance and configuration histories

- Predictive risk management supported by operational data

AlarisPro's Digital Twin and SMS framework help translate these expectations into actionable workflows, helping operators move from manual compliance to real-time readiness.

Sign up for early access to our 22-page BVLOS Readiness & Compliance Whitepaper - releasing in January!

ENTERING 2026 WITH MOMENTUM

As we prepare for 2026, AlarisPro is entering an important chapter:

- Launch of a completely redesigned public website

- Release of our BVLOS Readiness Whitepaper and BVLOS Compliance Hub

- Preview of our 2026 product roadmap focused on scalability, automation, and compliance intelligence

- Celebration of 10 years of advancing aviation-grade safety, reliability, and compliance leadership

With AlarisPro, you don't just keep up with regulatory change, you stay ahead of it.

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YEARS OF
DATA-DRIVEN INNOVATION

If you're interested in learning more in depth about how AlarisPro stacks up against specific competitors, or if you'd like to see AlarisPro in action, **CONTACT US** or **REQUEST A LIVE DEMO** tailored to your fleet and industry. We'd love to talk to you!

FLY SAFE!

Not subscribed yet? Sign up for future Fleet Watch editions.