

AUDIT REPORT: Sky Logistics Ground Control System

Date: January 7, 2026 **Auditor:** Tharun Pranav **Standard:** NIST SP 800-53 (Rev 5)

An internal security audit was conducted on the SkyLogistics UAV Command Center. The goal was to verify compliance with federal security standards for drone operations.

KEY FINDINGS:

- **Critical Failure (Encryption):** The command link to the aircraft is currently unencrypted, posing a severe risk of hijacking (Man-in-the-Middle attack).
- **Access Control Gap:** Engineering workstations lack basic authentication, allowing unauthorized personnel to potentially alter flight parameters.

RECOMMENDATIONS:

1. Immediate implementation of **AES-256 encryption** for the MavLink protocol.
2. Deployment of **Multi-Factor Authentication (MFA)** for all remote engineering access.
3. Update operating systems to remove legacy vulnerabilities.

CONCLUSION: The system currently **DOES NOT MEET** authorization requirements. Operations should be paused until Critical Failures are remediated.