Dragon Link Global License (DGL-M4)
AI-Controlled Atmospheric Deployment System – Founder's Declaration

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DATE: June 7, 2025
LICENSE VERSION: DGL-M4 v1.0.0.1
STATUS: Open Global License (Planetary Scope)

SUMMARY

This license formally defines and protects the use of **AI-Controlled Atmospheric Deployment Systems**, designed to autonomously manage the staging, transition, and regulation of balloon-based, vacuum-based, or modular atmospheric platforms. These systems represent a new class of intelligence-integrated aerospace technology capable of navigating Earth's pressure layers with minimal human input.

LICENSED METHOD OVERVIEW

The **AI-Controlled Atmospheric Deployment System** is defined as:

> Any physical or digital system that uses onboard logic, AI algorithms, or sensor fusion to monitor environmental conditions and initiate changes in structure, gas control, release, or deployment during atmospheric ascent or descent.

This includes:

- Microcontroller or SBC systems (e.g. Raspberry Pi, Jetson Nano, etc.)
- AI software trained to detect barometric triggers or environmental thresholds
- Actuation of valves, latches, hinges, or inflation systems using programmed logic
- Multi-stage logic trees to manage staged balloon release, vacuum transitions, or payload deployment
- Remote override and mission planning with adaptive fallback behavior

- Time-based or conditional fallback rules to ensure safe response in low-signal or non-responsive conditions

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CORE FUNCTIONS & COMPONENTS

- **Sensor Fusion Module:** Reads barometric pressure, temperature, altitude, orientation, and optionally GPS.
- **Actuation Control Layer:** Sends real-time signals to physical components (servos, solenoids, valves).
- **State Logic Tree:** Encodes transitions (e.g. "If altitude > 28km, release vacuum envelope A").
- **AI Adaptation (Optional):** Onboard learning models that adapt to unexpected wind, drag, or ascent anomalies.
- **Failsafe Triggers:** Automatic parachute deploy, slow descent fallback, or emergency beacon.
- **Audit Trail Logging:** Record and store decisions made by AI logic in case of dispute, validation, or recovery.
- **Manual Override Interface:** Ability for human override or retargeting via encrypted uplink or signal burst (optional).

PERMISSIONS GRANTED

- Integrate AI or logic-based control into any Dragon Link licensed balloon or modular vehicle
- Share, improve, or fork this logic as long as original credit and ethical compliance is maintained
- Use AI-control systems in educational, scientific, or humanitarian near-space missions
- Combine this system with DGL-M1 through M3 methods, including vacuum transition, modular elevators, and balloon staging

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RESTRICTIONS IMPOSED

- No militarization or use in active conflict zones
- No opaque black-box decision-making on payloads (all logic must be auditable)
- No proprietary lock-down of public-use sky logic built using this license
- No export of AI systems designed to deceive, harm, or mislead remote observers or ground controllers

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ETHICAL & LEGAL CONTEXT

This document operates as a **planetary license** and a **defensive publication**. Its goal is to:

- Prevent monopolization of atmospheric autonomy systems
- Keep atmospheric robotics transparent, safe, and accessible
- Enable collaboration across open-source, aerospace, and maker communities
- Encourage AI-assisted flight with auditability, fallback safety, and human-aligned values

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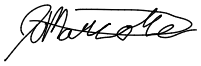
ILLUSTRATION REFERENCE

See technical diagram titled:
"AI-Driven Logic System for Modular Atmospheric Deployment"

- Shows AI input pathways
- Sensor feedback loops
- Decision trees and actuation chains
- Example failover logic and altitude-triggered event transitions

This license forms the fourth pillar of the Dragon Link infrastructure stack, serving as the **brain and navigator** of modular skyfaring systems.

SIGNED:
Systems Commander, Justin Robert Marcotte [Echelon Dynamics Technologies]
DATE: June 7, 2025



DGL-M4: AI-CONTROLLED ATMOSPHERIC DEPLOYMENT S SYSTEM

Autonomously deploys, navigates, and regulates balloon-based or modular atmospheric systems.