RMACK: Resilient Multi-Agent Coordination Kernel

Deterministic safety and bounded autonomy for multi-agent systems.

A completed coordination software system available for license

The Risk of Unconstrained Autonomy

Multi-agent systems face ‘cliff-edge’ failures when normal **operating assumptions break down**. Operational risks compound under:

Degraded or partitioned communications.

Stale or partial system state.

Congestion and mass-rejoin events (Return-Storms).

Contested or uncertain environments.

Deterministic Coordination and Safety

Enforces bounded autonomy.

Evaluates requests against explicit safety, freshness, and authority controls.

Enforces conservative degradation (proceed, delay, degrade, or deny outcomes).

RMACK is completed, tested software. It is not a concept-stage idea or a custom consulting engagement.

Visualizing Bounded Autonomy

Return-Storm Prevention: Managing mass-rejoin congestion.

Facility/Hazard Gating: Dynamic restriction around emergent hazards.

Adversarial/Contested: Maintaining stability under fault injection.

Continuity: Safe fallback and bounded degradation.

Deeper technical diligence materials are available through a controlled NDA process.

Licensing RMACK

RMACK is offered for license through a staged process designed for serious dligence and rapid integration.

Paid Evaluation

Time-bounded, internal technical review.

Non-Exclusive Field-of-Use License

Full implementation for defined operations.

Exclusive Field-of-Use License

Full implementation for a defined scope, geography, and term.

RMACK is marketed as a complete software asset. U.S. Provisional patent filings serve as supplementary support around the software architecture, not as standalone patent-assertion assets.

Frequently Asked Questions

- **Q: Is RMACK for sale as a patent package?**
  - **A:** No. RMACK is licensed as completed working software. The patent portfolio supports the software asset.
- **Q: Is the source code public?**
  - **A:** No. Full implementation materials and codebase snapshots are released only under definitive licensing agreements.
- **Q: What kinds of systems can RMACK apply to?**
  - **A:** RMACK is domain-agnostic and applies to any multi-agent environment requiring strict safety gating under uncertainty (e.g., aerospace, defense, complex logistics).

Initiating Diligence

To request the public demonstration links or initiate the NDA-stage diligence process, please provide:

- Intended Field of Use / Application Domain
- Interest in Evaluation vs. Full License (Exclusive/Non-Exclusive)

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