

# REVRDTECH LLC | THE MERI™ PROTOCOL

## EXECUTIVE SUMMARY: ASSURED AUTONOMY & RESILIENT PNT

**Classification:** Public Release (Proprietary Logic Safeguarded)

**Target:** DoD / Prime Contractors / National Security Infrastructure

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### MISSION OBJECTIVE

REVRDTECH LLC provides the essential **Communication-to-Decision Substrate** for the next generation of autonomous flight and ground logistics. By fusing a resilient mTLS middleware (**REVRD**) with a proprietary Deontic-Intuition™ logic engine (**MERI**), we solve the "Assurance Gap" in GPS-denied and contested kinetic environments.

### I. THE REVRD™ MIDDLEWARE: INFRASTRUCTURE RESILIENCE

REVRD acts as the high-velocity "Nervous System" for urban 3D AV navigation and emergency response. It facilitates an authenticated, low-latency bridge between municipal NG911 data centers and the Vehicle Experience (VX).

- **PNT Agnostic Connectivity:** Seamlessly integrates with alternate PNT sources (Visual, Acoustic, Magnetic) to maintain a sub-100ms data-handshake during RF-jamming events.
- **Security Architecture:** Implements a proprietary **AES-1024-QSC** entropy-shuffling handshake for mTLS-Auth, ensuring that the "Pipe" is impervious to signal-injection or spoofing.
- **Edge Authentication:** Direct-to-VX alerting protocols compliant with NENA i3 standards, providing verified priority-routing for emergency assets in 3D-congested airspace.

### II. THE MERI™ PROTOCOL: DEONTIC-INTUITION™ LOGIC

The MERI engine is a Non-Bayesian normative architecture designed to replace brittle, pattern-matching AI with **Assured Decision-Making**. It translates human high-performer intuition into a verifiable mathematical substrate.

- **Runtime Assurance (RTA):** Unlike probabilistic models that "hallucinate" in edge-case scenarios, MERI utilizes a **Normative Logic Filter** to enforce strict Obligations ( $\$O\$$ ), Permissions ( $\$P\$$ ), and Prohibitions ( $\$F\$$ ).
- **Recursive Constraint-Satisfaction:** Employs **Chisholm-Class Adaptive Safety Protocols** to resolve non-linear environmental conflicts. The system operates on a recursive mapping sequence:  $\$O(A) \wedge O(A \wedge B) \wedge (\neg A \wedge O(\neg B))\$$ , ensuring logical consistency when standard probabilistic inputs fail.
- **Cognitive Signature Alignment:** Modeled on a High-Performer Baseline, the protocol

ensures that autonomous systems maintain a physical-logic equilibrium even when the visual substrate is compromised.

### III. ACTIVE DEFENSE & INTEGRATION

REVRDTECH operates under a **Kill-3D™** safety architecture. Any violation of the logic-enclave or unauthorized attempts at compositional scraping will result in an immediate severance of the logic-bridge, protecting the integrity of the mission-critical substrate.

- **Compliance:** Aligned with **CMMC 2.0 Level 2** and **NIST SP 800-171 Rev 2**.
- **Contracting:** Available for **Other Transaction (OT)** participation and **Associate Contractor Agreements (ACA)** for DoD Phase II/III transitions.

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#### CONTACT PROTOCOL:

Direct all technical inquiries to the **GTM Strategist**. Access to the Full Technical Specification PDF and mTLS-secured repository requires verified credentials and a formal **Mutual Non-Disclosure Agreement (MND)**.

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