

# Titan AI™: Intelligent Logistics, Supply Chain Management, Asset Management, and Engineering

The Platinum Agentic Logistics Framework is an advanced, AI-driven tool designed to modernize logistics and supply chain management by transitioning from reactive, manual processes to Predictive Logistics. By treating supply as a "live" variable, the system transforms logistics into a proactive combat multiplier.

## Core Technology & Architecture

- **Digital Supply Twin:** The framework creates a real-time digital replica of the operational supply chain, connecting Soldier telemetry with automated requisitioning.
- **Agentic AI:** Unlike passive systems, these autonomous agents don't just report data—they "act" on it across all echelons of command.
- **Closed-Loop Telemetry:** Uses Sensor-to-Log (S2L) triggers to connect the tactical edge directly to enterprise systems (e.g., GCSS-Army), eliminating the traditional "request-to-receipt" lag.
- **Human-in-the-Loop (HITL):** Forward logisticians use ruggedized Forward Logistician Handheld (FLH) devices to maintain final authority over AI-generated requests, ensuring operational trust.
- Integrated logistics integration with our Raven AI C6ISR integration.

### Get in Touch

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## Fact Sheet



## Alpha X AI™



### Operational Resilience (Contested Environments)

#### Designed for Peer-to-Peer conflict where "Data is a Target":

- **Electronic Warfare:** Uses MANET (Mobile Ad-hoc Networking) and "Store-and-Forward" logic to sync data during intermittent signal windows.
- **GPS Denied:** Integrates with vehicle Inertial Navigation Systems (INS) and terrain referencing to maintain accurate delivery coordinates without GPS.
- **Cyber Security:** Employs a Biometric Blockchain Ledger for every request, creating an unalterable digital chain of custody. Zero trust architecture for ATO readiness.
- **Hardware Compromise:** Features a Remote Zeroize & Kill-Switch to permanently wipe encryption keys if a handheld device is captured.



### Compliance & Efficiency Outcomes

- **NDA 2026 Compliance:** Meets legislative mandates for AI-enabled anomaly detection to ensure supply chain integrity.
- **FWA Prevention:** Automatically detects "Ghost Soldiers" by cross-referencing food requests with biometric muster rolls.
- **Logistical Footprint:** Delivers a 20% reduction in logistical footprint.
- **Readiness Rate:** Maintains a 98% readiness rate through predictive forecasting and automated synchronization.

# Titan AI™ Agentic Logistics Framework



## Automated Multi-Class Re-Supply

The system calculates Rate of Consumption (ROC) models to automate the "Push" and "Pull" of supplies:

Supply Class	Automation Logic
Class I (Food/Water)	Syncs with Personnel Daily Summary (PDS) and environmental heat indexes to adjust requirements.
Class III (Fuel)	Uses IoT sensors and vehicle telemetry to forecast "dry-out" times; drafts requests before reaching 30% reserve.
Class V (Ammunition)	Logs expenditures via fire systems; triggers resupply at the Battalion level before a Company hits its "Winchester" point.
Class IX (Parts)	Employs Predictive Maintenance (PMx) to request parts and schedule repairs before equipment failure occurs.

## Technical Risk Mitigation & Security

The **2026 NDAA mandates** strict AI controls for supply chain integrity, which this framework addresses through a "Zero-Trust" tactical architecture.

- **Electronic Warfare Resilience:** The Forward Logistician Handheld (FLH) utilizes Mobile Ad-hoc Networking (MANET) to daisy-chain data through nearby vehicles.
- **Store-and-Forward Logic:** If all connectivity is severed, the system saves requests locally and synchronizes automatically during sub-second "burst" windows.
- **Contested Navigation:** To counter GPS spoofing, the system integrates with a vehicle's Inertial Navigation System (INS) and uses "Terrain Referencing" to maintain location data.
- **Digital Chain of Custody:** Every AI-triggered or human request must be signed by a FIPS 201-compliant biometric (fingerprint/iris) on the FLH to prevent "Ghost Requests".
- **Hardware Security:** In the event of capture, the Brigade Admin can "Zeroize" (permanently wipe) encryption keys and storage remotely via a "Dead-Man" timer or over-the-air signal.