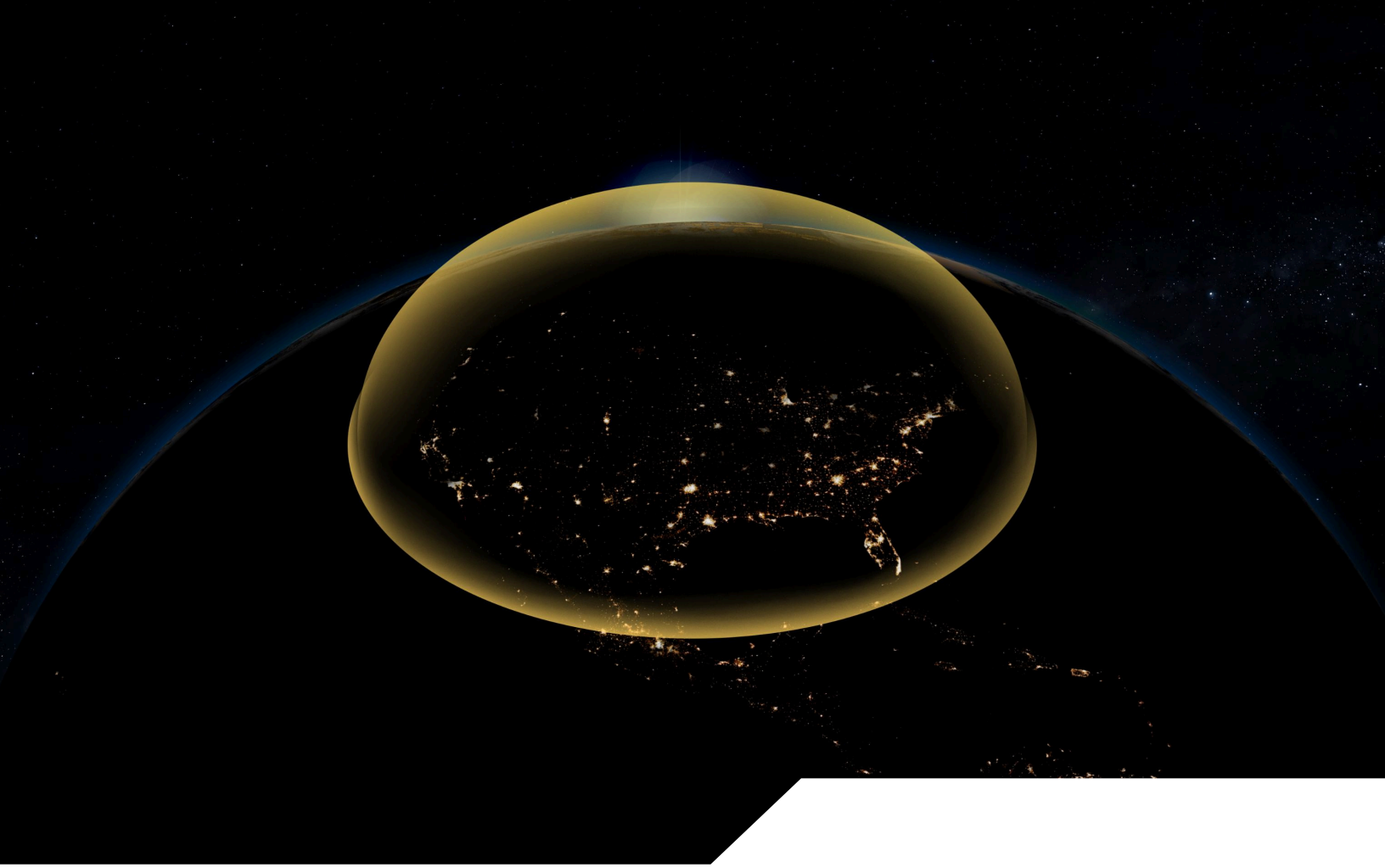
WHITEPAPER

Securing Golden Dome for America

Data Centric Defense at the Speed of Relevance

EVERFOX



Executive Summary

Responding to increasingly compressed threat timelines requires a transformative approach. The emerging Golden Dome architecture represents a structural shift from stove piped defense towards data centric, distributed and connected multi-domain operations.

Success hinges not on more sensors or interceptors, but on the velocity, security, and integrity of data that connects them.

Everfox, in collaboration with advanced transport and infrastructure partners, is driving this transformation. While infrastructure partners provide proliferated, resilient transport including high-bandwidth, low-latency global sensing and communication; Everfox delivers the secure digital backbone. By ensuring trusted cross-domain movement, data validation, and AI integrity, we ensure the right data arrives at the right node at line speed.

Together, this ecosystem pioneers a trusted, intelligent data fabric connecting commercial, coalition, and national defense networks.

This collaborative approach directly supports U.S. Government modernization goals under CJADC2, Zero Trust and aligns with the Golden Dome initiative, which senior leaders regard as a data flow challenge, versus solely a weaponry challenge.

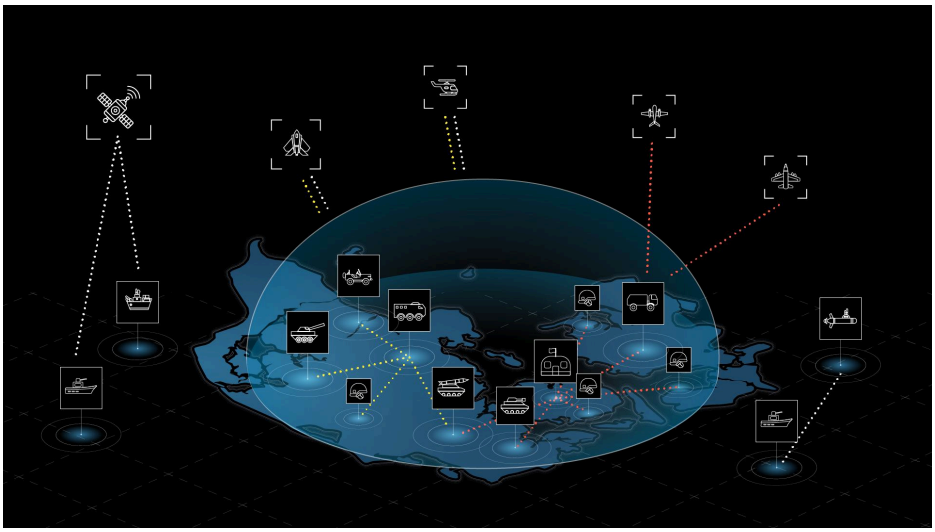
The Strategic Shift

From Systems Integration to Data Integration

Traditional advantage rested on platforms and interceptors. However, hypersonic, orbital, and swarm threats now compress reaction timelines from minutes to seconds outpacing human intervention. In this environment, data becomes the decisive element of combat power.

The critical bottleneck is rarely sensor detection itself, but rather the movement of data between networks, enclaves, and decision nodes. Golden Dome addresses this by linking space, air, land, and cyber domains through secure data flow at line speed.

The primary challenge is no longer hardware; it is trusted data mobility across multiple security domains. Data becomes the "**new ammunition,**" only effective if it arrives in time, in the right form, and can be trusted without hesitation.



Secure connectivity and data flow across every domain is no longer optional - it is a mission imperative.

The Challenge

Trusted Data Movement Across Domains

Defense data exists on a security spectrum: open commercial feeds, unclassified partner networks, secret battle management layers, and Top Secret fusion centers. Sensors live at the bottom; decisions at the top. Latency between these layers breaks the kill chain.

Cross Domain Solutions (CDS) enable safe upward and downward data flows while preserving classification integrity.

- Upward Flow: Raw data (spectral signatures, radar returns, Doppler profiles) from low-trust domains must be transported to higher-classification environments for all-source intelligence and intent modeling.

Trusted Data Movement Across Domains Continued

- Downward Flow: Sanitized tracks and fire-control solutions are disseminated to coalition partners and tactical batteries.

Everfox technologies deliver this through trusted data transfer, Zero Trust policy enforcement, and AI integrity validation, maintaining both confidentiality and speed. Furthermore, our integrated fabric protects against active AI threats, such as data poisoning, model inversion, and cross modal leakage, ensuring the integrity of kinetic decision-making.

Strategic Context

Alliances with Industry Leaders

Operating within a broader ecosystem of defense, AI, and infrastructure providers, Everfox enables secure integration across platforms, systems, and partners, such as:

- Palantir: Integration of analytics and AI platforms with Everfox cross-domain solutions to deliver real-time intelligence inside classified environments.
- Anduril: Advancing AI driven command and control and multi-level security data sharing for U.S., U.K., and NATO defense networks.

This approach supports interoperability across government, industry, and coalition environments, without constraining how organizations design or deliver their capabilities.

The Integrated Data Fabric

Combining Everfox's cross domain architecture with modern transport constellations creates a deterministic data fabric engineered for persistent sensing, rapid fusion, and engagement.

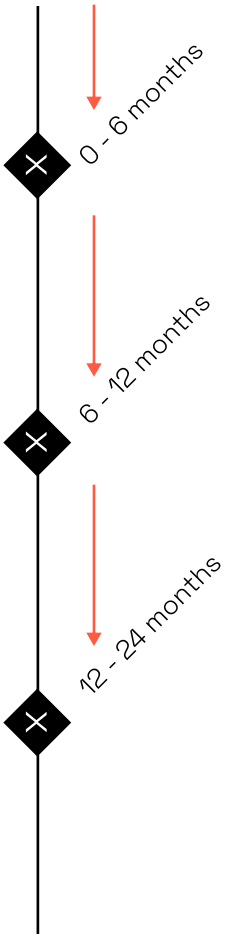
This system integrates government and commercial LEO, MEO, and GEO constellations, which currently function as isolated data stovepipes.

The Four-Layer Architecture

1. **Secure Upward & Downward Flow:** From edge sensors to classified fusion nodes.
2. **Protected Decision Layers:** AI driven layers secured by Everfox integrity controls.
3. **Unified Fabric:** A mid layer decision engine where AI/ML algorithms aggregate disparate data streams into a weapons quality operating picture.
4. **Deterministic Delivery:** Utilizing high-performance transport to provide effectors with high-fidelity data, characterized by guaranteed timing and minimal jitter.

This joint fabric forms the foundation of machine-speed Observe–Orient–Decide–Act (OODA) operations.

Path to Operational Integration



Near Term

Integrate secure cross domain data movement into existing environments. Validate data flows across classification levels without introducing latency or risk.

Mid Term

Enable trusted data sharing across partners, coalition networks, and AI-driven decision layers for data integrity and validation at scale.

Long Term

Operate at mission speed, delivering secure, deterministic data flows across globally distributed systems, enabling coordinated action in miliseconds.

Combined Capabilities Accelerate Outcomes

Partner Strengths

- System integration across multi-domain environments
- AI, analytics, and decision-support capabilities
- Platform & sensor integration at scale

Everfox Strengths

- Cross Domain Data Trust Architecture
- AI Integrity & Validation
- Defense-Grade CDS Accreditation
- Coalition Data Sanitization

Combined Outcome

- Trusted data movement across domains
- Reduced latency from sensor to decision
- Deterministic Fusion Ecosystem
- Interoperable environments across classification levels

Conclusion

The Foundation of an Interconnected Defense Ecosystem

Golden Dome is not defined solely by hardware, it's defined by how effectively data moves across the mission. Data is now the driver of operational advantage, **ammunition** that must arrive at speed, with integrity, and without compromise.

For those building and delivering Golden Dome capabilities, success depends on eliminating latency while maintaining trust across domains.

Everfox enables this, securing the data that powers coordination, decision-making, and action at mission speed.

About Everfox

Everfox delivers trusted connectivity to protect the world's most critical environments and safeguard the sensitive data powering decision advantage.

Built for mission-critical operations, Everfox protects what matters most by securing how data moves, how users access it, and how threats are neutralized across every domain. We enable mission speed and secure collaboration across networks, domains, and allies, while ensuring the data powering AI and advanced analytics remains trusted and protected.

We don't just defend systems; we deliver decision dominance.

Learn More: www.everfox.com/golden-dome-cybersecurity

About the Authors

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As Director of Solution Architects, Christian brings 27 years of public, private, and government-industry experience, with service at Joint Special Operations Command, White House Communications Agency, Naval Special Warfare, and Navy Staff. He currently leads solution architecture and innovation at Everfox.