CUBIC

DTECH™

Features & Benefits

- Quantum-resistant data encryption solution
- Suitable for offline Denied, Degraded, Intermittent, Limited (DDIL) environments
- Integrates with JWCC and hybrid cloud environments
- Aligns with DoD's Zero Trust mandates
- Supports secure Sensor Fusion, Artificial Intelligence, and Autonomous Operational Data
- Keys are never visible, never persisted, and never reconstructable by attackers

DTECH Fusion Trust

Powered by HyperSphere

DTECH Fusion Trust, powered by HyperSphere, provides a new paradigm for data security and offers U.S. government-baselined data protection designed for the post-quantum world.

The Internet, military command structures, financial systems, and healthcare infrastructure all rely on trust in encrypted communication. Encryption allows us to share secrets across hostile networks, enables digital identity, and shields critical data from prying eyes.

Quantum computers, however, can efficiently solve the complex mathematical problems these systems rely on. Shor's algorithm makes short work of factoring large numbers and solving elliptic curve problems. When this capability matures, and we're closer than most realize, most of today's encrypted data becomes trivially accessible to anyone with quantum computing capability to power Shor's algorithm.

That data includes decades of sensitive government archives, commercial IP, financial records, and personal health data already stolen and stockpiled for future decryption.

DTECH Fusion Trust offers immunity to the threat of quantum computing data decryption, providing data confidence today and for the next-generation tactical edge.

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At the heart of DTECH Fusion Trust is Quantum Immune Data Protection (QIDP®)—a patented framework that renders stolen data useless and eliminates reliance on conventional key management systems.

How It Works

Preemptive Cyber Defense

Encrypt mission-critical data with DoD and NIST security requirements—before it is even written to storage—to safeguard against classic large-scale computing, AI, and quantum computers.

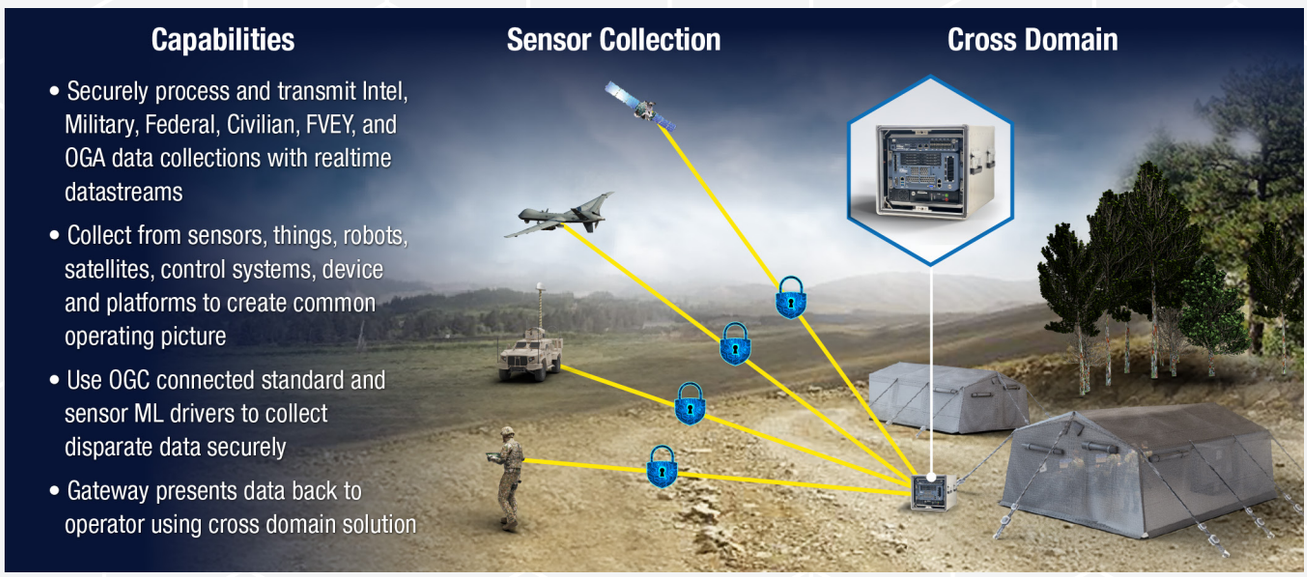
Automated Moving Target Defense

Instead of storing or transmitting encryption keys, DTECH Fusion Trust creates a different encryption key (for any required cipher) per frame for every object and hides each key in fourth-dimensional space. Not only is a conventional key management system eliminated but a single object may contain thousands of keys that can never be lost, stolen, or misplaced, providing additional defense-in-depth against physical and cyber threats.

Resilient Data Security

Automatically restore any compromised or deleted data, at <1% overhead, to its last known good state. This feature provides operational continuity even during ransomware or edge-device corruption, making systems resilient by design.

Wartime Data Protection



DTECH FUSION™

DTECH Mission Solutions
go.cubic.com/fusion-trust

21580 Beaumeade Circle
Ashburn, VA 20147

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