



Advantages achieved through modular cryptography:

- Portable cryptographic fine grain access controls at the object level capable of supporting multi-level security data (MLS).
- Cryptographic agility at the message and object level, including Post-quantum cryptography (PQC).
- Eliminates reliance on trusted platforms, privileged administrators, and complex perimeters.
- Collapses attack surface, reduces insider threat blast radius to the object level, simplifies compliance, and lowers administrative and procedural overhead - while increasing agility and decision velocity.

Technology Summary: Assured Actions Anywhere on Anything

NUTS Technologies delivers Modular High Assurance Control by applying modular cryptography through Structured Cryptographic Programming directly at the data layer, rather than relying on monolithic platforms, perimeter defenses, or infrastructure-bound security controls.

Enabled by two foundational technologies:

- Structured Data Folding with Transmutations (SDFT) — a cipher-neutral, crypto-agile data transformation protocol validated through NIST SBIR Phase I research for easing the transition to post-quantum cryptography.
- Nut Capsules - cryptographically self-governing data objects created using SDFT that embed encryption, fine-grained access control, policy, provenance, and governance directly into the data.

Company Overview:

NUTS Technologies (NUTSTECH) is a dual-use applied cryptography company specializing in data-centric security and privacy. The company protects sensitive data across defense, enterprise, and small-business environments using High-Assurance Modular Cryptography.

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