



Security First Search: Protects data. Prevents data Exposure. Avoids Compromise

Searching for highly sensitive data across multiple networks, domains, and cloud providers presents a significant challenge for today's defense and intelligence agencies.

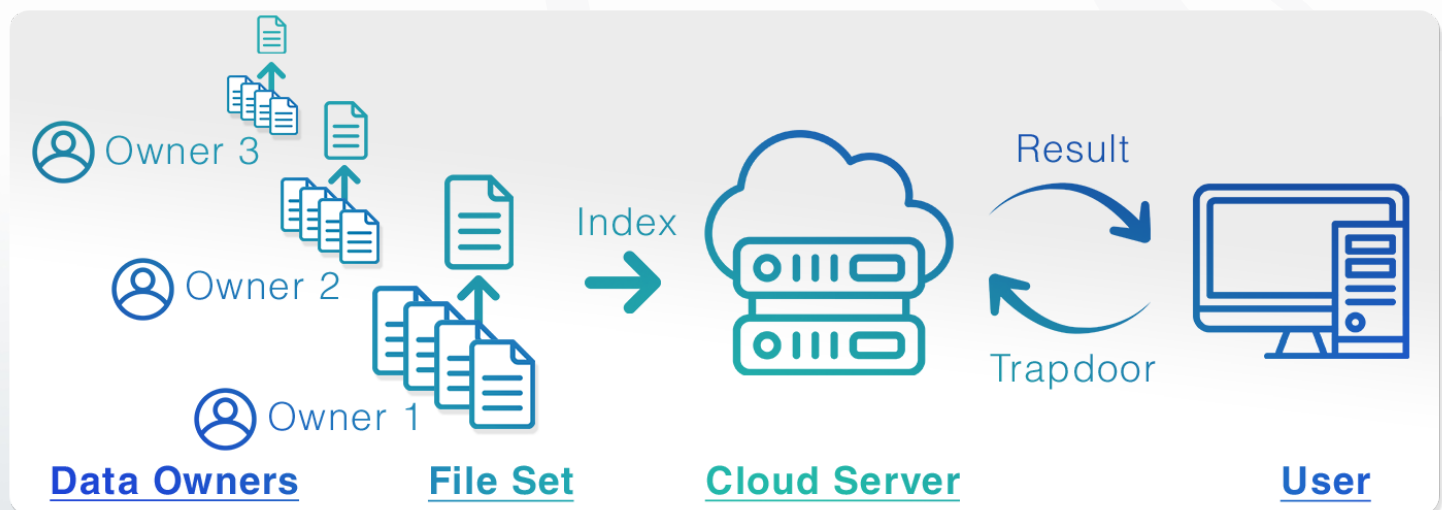
Agencies either rely on non-performant legacy networks to find data, or, on ZTA vendor solutions that have gaps in security - for example, leaking search data in plain text, or, allowing access to IT Admins creating the risk of data exposure by an insider or threat actor.

Unlike traditional search offerings, TrustedSearch

Offers a security-first alternative to traditional search, building on top of the Trusted Keep Key Management System (KMS) and Public Key Infrastructure (PKI) encryption platforms for the most robust and secure search in the market.

Unlike traditional search offerings, Trusted Search:

- Deploys a security-first design out-of-the-box, minimizing the risk of data and indexes being compromised, both at rest and in use, using both software and hardware.
- Decreases the risk of data exposure and insider threats by enforcing access only to users and systems with proper authorization.
- Includes strict separation of duties, mutually authenticated TLS connections, and comprehensive encryption.
- Offers cost-effective data tiering, high availability, and clustering with built-in data replication and backup.

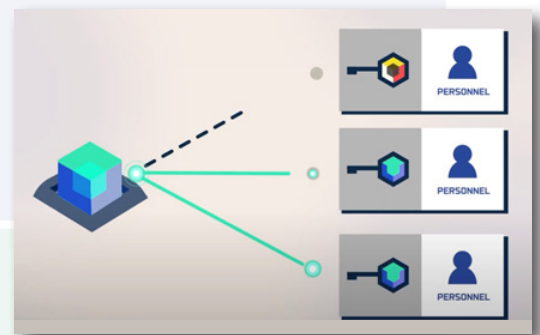


1. Security First Design

- a) **Secure Resilient Communications:** Advanced ZTA design, from the edge to cloud to the operations center.
- b) **Physical Security:** TrustedSearch appliances employ advanced anti-tamper mechanisms to prevent compromise through physical hardware access. Search results are only decrypted on dedicated TrustedSearch hardware.
- c) **Insider Threat Protection:** Strict separation of duties where administrators cannot access unencrypted data or policy configuration.
- d) **Data Leakage Prevention:** data and indexes encrypted at rest, in-use, and in-memory with multiple encryption keys stored separately in TrustedKMS.

2. Advanced & Intelligent Search Capabilities

- a) Full-text searching.
- b) Language-specific analyzers for multi-language support.
- c) Faceting and result aggregation.
- d) Support for complex queries and a broad range of query types (e.g., boolean, phrase, prefix, fuzzy, range, geospatial, numerical and date range, geo-spatial, etc.).



3. Seamless Integration & Operational Efficiency

- a) **Seamless Authentication:** Integrates with Identity and Access Management (IDAM) systems using PKI or OAuth2.
- b) **Open Standards:** Access control based on open standards such as OpenID Connect (OIDC), PKI, and Open Policy Agent/ Rego (OPA/Rego).
- c) **API-Driven Automation:** Designed for fully automated and orchestrated operations.
- d) **High Availability:** Live updates, cluster replication, and automated backups to S3-compliant device or cloud object store.
- e) **Cost-Effective Data Tiering:** Automated tiering of encrypted “cold” index shards to S3-compliant device or cloud object store, allowing continued search capabilities while providing cost-effective management of large datasets.

Learn more about



TwoSixTech.com/Products/TRUSTEDSEARCH
Or contact us at Solutions@TwoSixTech.com

About Two Six Technologies

Two Six Technologies is a high-growth technology company dedicated to providing products and expertise to national security customers. The company solves complex technical challenges in five focus areas that are key to national security missions: cyber, information operations, electronic systems, analytics, and secure solutions.