

Federal agencies are ready to exploit data as a strategic asset. They have moved from simply owning data to sharing and leveraging data as a strategic multiplier and a functional asset. However, agencies continue to face challenges in enabling data sharing while also ensuring protection from internal and external threats – both hold critical national importance.

To transform that data into actionable information, data needs to flow freely, yet securely. Overly stringent security mechanisms that keep information too tightly contained can impede access, sharing and discovery, which can and will impact your mission across multiple domains.

To effectively leverage data as a strategic national asset, agencies must be able to share resources with trusted parties without sacrificing integrity and performance. This requires an effective and efficient method for securing all data elements within the environment - data discovery, data access and data sharing.

## CGI SecureDataFabric Defined

CGI SecureDataFabric™ is a specially-designed software platform that provides information seekers with the insights they need while simultaneously allowing data owners to maintain and manage full control. You can download, install and configure it for any application that needs to provide secure data access to end users, other systems or other agencies.

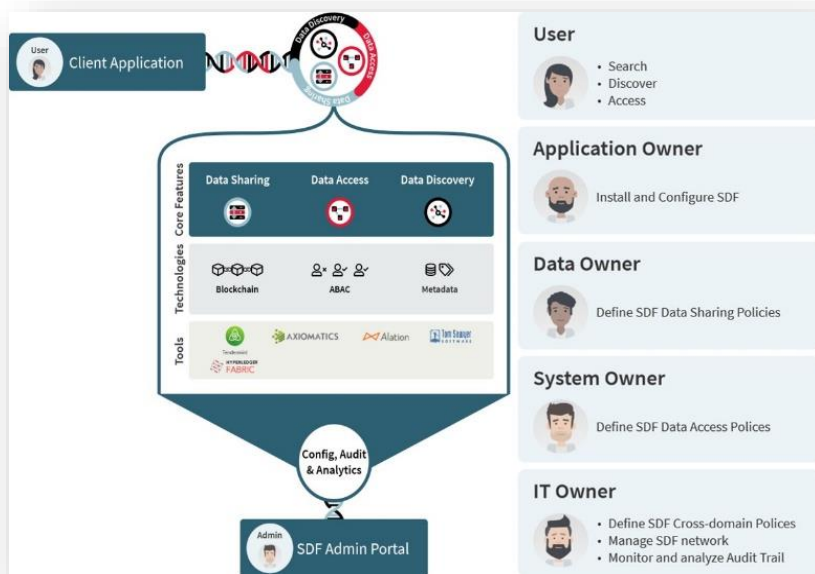
The CGI SecureDataFabric platform enables efficient data sharing, and discovery of data across and between agencies, networks and systems, with robust traceability, auditability and discovery with validation access without the need for a centralized single party controlled data repository (integrated data repository or data lake) or for transferring data, which commonly sacrifices data integrity, authority and non-repudiation.



### CGI SECUREDATABRIC FOR GOVERNMENT

Agencies need to share data without duplicating it and without sacrificing integrity, non-repudiation and authority.

- **Can I share data?**
  - Business Requirement: Agencies need to know what users do with their data.
  - Challenge: Sharing data efficiently, with the right internal and external users, enables successful outcomes. But it is a multifaceted problem.
  - **SDF enables data owners to define how and with whom they share data internally or externally.**
- **Can I access data?**
  - Business Requirement: Agencies need to control who has access to data.
  - Challenge: Locking down sensitive data through security policies and user access privileges is extremely complex.
  - **SDF employs a zero trust access policy with digital signature.**
- **What data is available?**
  - Business Requirement: Data, a valuable enterprise asset, is often siloed or restricted, even within an agency.
  - Challenge: It is difficult to know what data is out there and useful to users, and data warehouses are expensive and difficult to effectively maintain.
  - **SDF enables rich search and discovery capabilities.**



## About CGI

Insights you can act on

Founded in 1976, CGI is among the largest IT and business consulting services firms in the world. We are insights-driven and outcomes-based to help accelerate returns on your investments.

Nearly 7,000 of our experts help the U.S. federal government achieve comprehensive, scalable and sustainable IT and business goals. We enable our clients to execute digital transformation, build the federal workforce of the future, achieve operational excellence, enhance citizen engagement and protect America's assets. As the federal government faces unprecedented challenges, we remain committed to enabling its success, using our deep understanding of clients' goals and mission-essential needs to provide consultative insights and develop solutions for maximum results.

### For more information

Visit [cgi.com](https://cgi.com)

Email us at [info@cgi.com](mailto:info@cgi.com)

## Enabling Technology

CGI SecureDataFabric earns its name from the effects of its core enabling technologies: Blockchain and Attribute-based access control (ABAC). Pairing these technologies creates a secure data fabric ideal for data sharing, access and discovery across multiple security environments. Blockchain grants access to search data networks, and ABAC permits access to data based on user attributes. Essentially, blockchain serves as the key to a building and ABAC controls provide keys to the building's individual rooms.

## Numerous Application Opportunities

Secure data access, discovery and governance present a combined universal challenge. Regardless of the domains highlighted below, an agency's data security remains critical and in need of constant oversight.

### Government

CGI SecureDataFabric when applied at the application layer, provides a seamless data sharing environment. This allows for robust audit activities and enables data owners to maintain control, reducing the need to feed data into a data warehouse. The platform can be applied at the classification domain layer, assisting agencies in managing the CONOPs for access to data that resides across different classification layers. This helps enable the mission of "responsibility to provide."

## Space

The U.S. and our allies rely on space for communication, economic and national security applications. Satellites provide communications, timing and navigation for computers, earth observation, and life-saving weather information, as well as defense and intelligence information needed to understand potential adversaries' actions. Known as "congested and contested," the space domain needs Space Traffic Management (STM) to address the challenges of providing real-time information regarding the activities of space objects. STM solutions permit access to a wide variety of data sources from space- and ground-based sensors, controlled by U.S. and allied governments, as well as private sector companies. The data is controlled at many classification levels and represented in different firms' intellectual property, which must also be protected. The CGI SecureDataFabric unique combination of blockchain and ABAC provides an effective solution, ensuring the organizations that need the information get it – securely, on time, every time.

## Healthcare

Numerous privacy laws must be maintained when sharing medical data. CGI SecureDataFabric can safeguard the sharing of sensitive data amongst various partners in healthcare. Blockchain maintains the single point of entrance, and ABAC grants access based on specific governance rules dictating who can search, access and discover data.

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