

Improving data management with CGI's Healthcare Interoperability Platform



CGI helps NHS Trusts and ICSs access the right data at the right time, automating consent and data sharing and ensuring it is fully secure and compliant.

NHS Trusts and Integrated Care Systems (ICSs) need to be able to manage and share data securely to improve digital patient and citizen engagement. Often, the data is held in multiple places and it is not possible to interact with it across different systems. It can also be difficult to share selected patient data and manage timeframes for data sharing and consent.

Our solution

The Health Interoperability Platform provides data owners with full control over how their data is shared automating consent and data sharing. The master data set being shared stays in the original system and is surfaced on request – similar to streaming services we have become used to as consumers.

The solution is built on open health data standards utilising international healthcare standards such as FHIR and SNOMED whilst leveraging modern cloud architectures for integration and Blockchain for Audit and Security. FHIR Accelerators, FHIR Server, Oath and Open ID make for a modern robust adaptable cloud native solution.

Our solution enhances your existing technical infrastructure by enabling data sharing using a secured, blockchain-based cloud solution where the data owner maintains control.

Combining open healthcare standards and blockchain technology to surface the right data at the right time for an agreed period means that new services can be created, processes and transactions be completed or analytics performed.

Our solution, which presents data in non-proprietary formats is best placed to manage that wider integration both across and outside the traditional boundaries of the NHS into care, third sector services and people themselves. It is an enabler of new digital services and will support new models of service delivery such as at scale virtual hospitals seamlessly and deliver new or changed care pathways.



Key Benefits:

- Enables digital patient and citizen engagement with health and care services
- Integrated health and care services and worker collaboration in multi-disciplinary teams by allowing more than read only access to key information
- Control of clinical data and consent for patients
- Validated, standardised and normalised data pulled from multiple health and care sources in different formats
- No vendor tie for digital citizen and worker apps
- Enables interaction and management of data in and out of new and existing systems
- Ends single vendor lock in problem
- No proprietary technology stack
- Built on open source / open healthcare standards

Data can be taken from multiple sources in different formats – such as ICD10 and SNOWMED CT. It can bring together that data to provide a standardised Health and Care Record which can then be distributed or streamed to those healthcare professionals, or even patients themselves.

This is also not a read only record – patients and clinicians can augment, add or change data via permissioned rules on the blockchain and we can utilise this data to build out new patient and worker services and retain the ability to revoke or change consent at any time.

Enhanced data security and data governance

We employ our patent pending sharing logic via blockchain technology to offer the highest level of data security available. Leveraging the immutable auditability of block chain ledger technology you can ensure that your data is protected. Since all data shared is based on consensus contract, the solution automatically enforces all data governance.

Reduced data movement

The Healthcare Interoperability Platform gives you the flexibility to share data externally without the constraints and investment in new systems or complicated data warehouses. By bringing together disparate data, our solution creates a complete view of patient history and reduces the movement of unwanted or unneeded Protected Health Information (PHI). It enables secure data sharing and streaming at scale.

Scalable solution you can trust

The Interoperability Platform gives participants the option to opt in and maintain full ownership of their data through our consortium-based solution. Consortium blockchain is the perfect middle ground between decentralized and fully controlled data sharing, giving you all the benefits of transparency without compromising security. We also provide the SaaS platform that gives you data visibility and access with real-time dashboards for full transparency.

Cost reduction

Our platform removes the unwanted burden of maintaining connectors and monitoring data feeds that normally incur more costs. Another benefit of our solution are the shared cost and resources among participants, resulting in less cost to you individually.

About CGI

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. Across 21 industry sectors in 400 locations worldwide, our 77,000 consultants provide comprehensive, scalable and sustainable IT and business consulting services that are informed globally and delivered locally.

For more information

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