Datalogue

The transformative power of connected data.

Datalogue™

Experience the transformative power of connected data.

Access, view, and share patient data and images from across the entire professional care delivery network anywhere[2], anytime.

Imaging technology and digitization are constantly improving, accelerating change to the global market faster than ever before. Operating within silos of data is no longer sustainable, especially today as healthcare data volume is growing exponentially.

As people become more mobile, the healthcare delivery model is becoming more distributed. As patients, they also move metaphorically as well. They change insurance networks, seek specialists, secure out-of-network second opinions, and obtain immediate care delivered through independent clinics instead of traditional PCP visits.

Over a lifetime of care, this scatters a patient's heath data across disparate systems, multiple technology platforms and a multitude of unstructured formats. Healthcare providers are not immune to movement either. They are being transformed, reinvented, relocated, and realigned. Each certainly committed to improving patient outcomes but they must manage – and access –

data across multiple platforms, locations, and a range of formats. But their mission is critical – often time sensitive - so quickly accessing a total view of a patient's data is vital to deliver faster decision making and even better care.

Over the past several decades, there have been tremendous improvements as to how patient data is collected, stored, and accessed, but there is still need for improvement. For example, EHR (Electronic Health Records), are still not anywhere close to being fully integrated and standardized. PACS (Picture Archiving and Communications Systems), although a significant step forward, continue to show major weaknesses such as being vendor and/or platform specific.

This creates roadblocks for caregivers trying to access and untangle disparate data formats from different locations for patients under their care. This might include traditional paper files and plastic film, to PDFs of lab results, compressed digital files of CT scans, and even the inconsistent and hastily typed notes of attending physicians.

Doctors, radiologists and the entire supporting cast of care givers want the same things. Untethered access to data so they can make fast, informed decision and that these decisions are based on the totality of a patient's medical history including test results, previous procedures, and family history.

Introducing Datalogue, from the world's number one imaging IT Vendor.[1]

Datalogue is an open, highly scalable solution that unifies and intelligently manages patient data, images and enterprise content. It provides healthcare teams with efficient access to data whenever and wherever needed.[2]
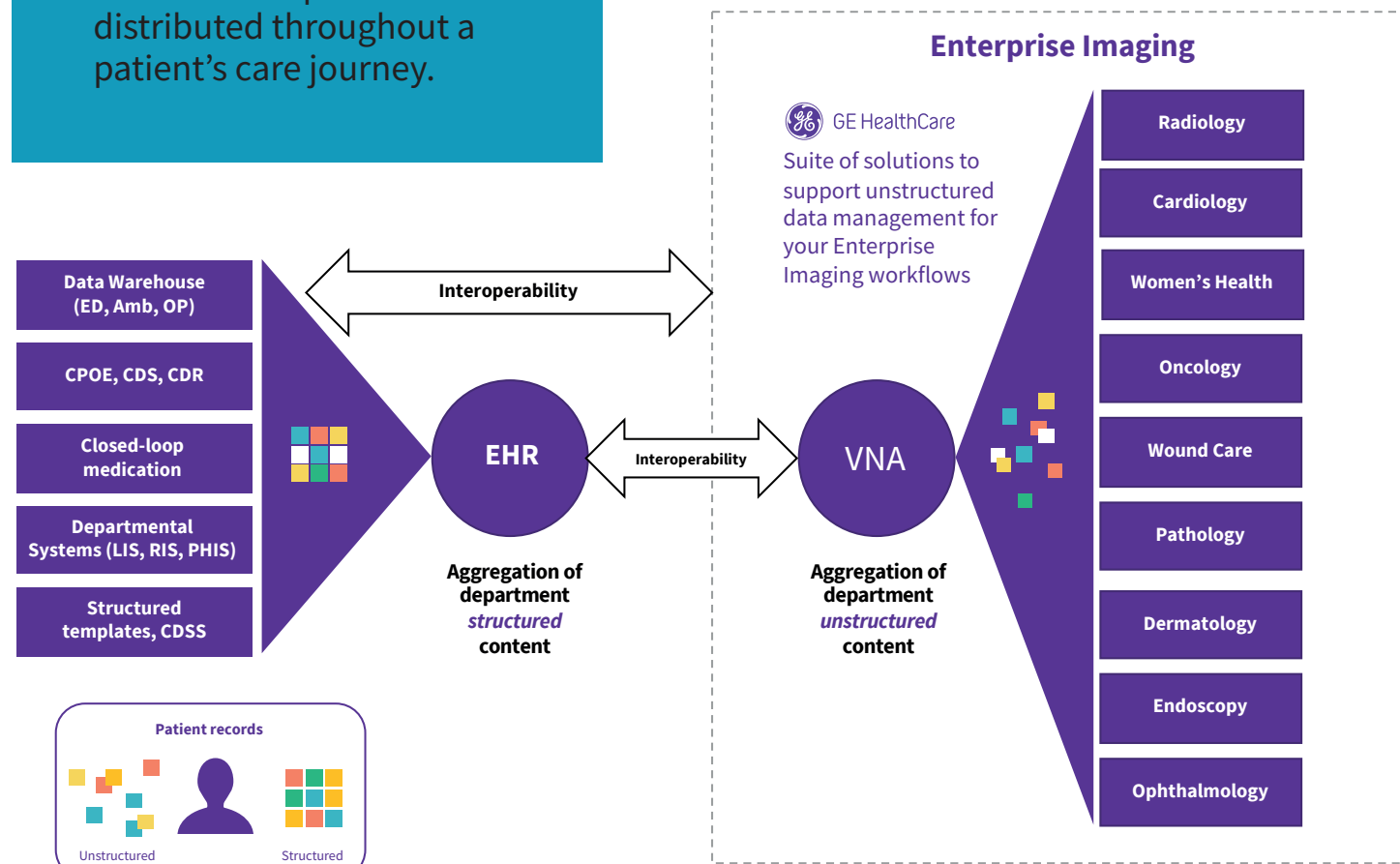
Unlike DICOM only archives, Datalogue helps organizations streamline enterprise-level and community-wide collaboration through a breadth of interoperability standards, including IHE-XDS, HL7, and EMPI. Its native tag morphing capability can help CIOs overcome limitations and variances of multi-vendor PACS systems to optimize image sharing and workflows. It also offers a choice of virtual server deployment to save data center space, enables disaster recovery by connecting to cloud storage, and enhances reliability with standardized configurations.

> **"Information is healthcare's best resource, but the industry treats it like a byproduct."**
>
> **Atul Gawande**
>
> Atul Atmaram Gawande is an American surgeon, writer, and public health researcher. He practices general and endocrine surgery at Brigham and Women's Hospital in Boston, Massachusetts.

Datalogue can help close the EHR data gap by consolidating and managing the tremendous volume of unstructured patient data distributed throughout a patient's care journey.

Enterprise Imaging

GE HealthCare

Suite of solutions to support unstructured data management for your Enterprise Imaging workflows

| Radiology |
| Cardiology |
| Women's Health |
| Oncology |
| Wound Care |
| Pathology |
| Dermatology |
| Endoscopy |
| Ophthalmology |

Interoperability

Data Warehouse (ED, Amb, OP)

CPOE, CDS, CDR

Closed-loop medication

Departmental Systems (LIS, RIS, PHIS)

Structured templates, CDSS

EHR

Interoperability

VNA

Aggregation of department *structured* **content**

Aggregation of department *unstructured* **content**

Patient records

Unstructured   Structured

By providing a central repository for longitudinal health records, VNAs can help to ensure that all providers involved in a patient's care have access to the same information, which can help improve the quality and efficiency of care delivery.

Where we can help:

- Overcome delayed & incomplete image availability
- Seamless interaction with multiple systems
- Supports cloud deployments for difficult remote access
- Interaction with Electronic Health Records (EHR)
- Creation of powerful longitudinal healthcare records

In conclusion, Datalogue is essential for the storage and sharing of longitudinal health records. It facilitates interoperability between different healthcare providers and systems, help to reduce costs, increase efficiency, and ensure data security and regulatory compliance.

As the healthcare industry continues to evolve, Datalogue will provide a robust and scalable platform that will become increasingly important for enabling evolving healthcare organizations to continue to deliver high-quality, patient-centered care.

GE HealthCare

Cross-Enterprise Document Sharing (XDS).

A proven framework to enable fast and cost-effective integration in existing enterprise infrastructures.

An XDS Registry is the key building block to establish a Health Information Exchange (HIE) scenario. A central document index (Document Registry) collects and manages metadata for all documents within the HIE, including information such as document type, facility type, specialty or author.

The metadata of the document index enable a clear structuring of the patient record. A further capability to structure XDS Registry Document Registry entries is the folder concept which can be used to group all documents and medical entries linked to a specific episode of care.

For example, in distributed care model, data may originate from a private physician's office and then move to an outpatient clinic, to a hospital, and on to a community and social care facility aiming to deliver integrated care.

XDS provides coherent specifications for managing the sharing of documents between any healthcare organization within the network. In particular, by facilitating the registration, distribution, and access of patient data and documents and by defining common methods for IT security, patient information integrity, and ID management, XDS provides a range of benefits to healthcare clinical and administrative processes.

Ubiquitous access to information without the need for duplicating data helps enable efficient clinical workflows, with shorter report turnaround, fewer tedious tasks repetitions, and thus fewer opportunities for errors. Moreover, XDS not only helps clinicians make informed clinical decisions but it can also help facilitate administrative tasks such as reimbursement and compliance-related processes.

Multi-ology, multi-site clinical content repository

Edison Datalogue is a standards-based archive that supports DICOM, IHE-XDS and HL7 standards, providing underlying IT infrastructure, application and format neutrality to ensure consistent clinical data consolidation and presentation across systems. It supports seamless expansion from a single departmental repository to a single hospital multi-ology repository, to a platform for image exchange across the community, helping deliver data consistency within multiple patient identifier environments. In addition, Edison Datalogue offers dynamic and static tag morphing capabilities to map the content of DICOM tags in a study during archiving or retrieval. This helps overcome the limitations, inconsistencies and variances in the implementation of the DICOM standard across multi-vendor PACS systems to help improve standards-based sharing of images and workflow across the enterprise.

Datalogue links patient's images and clinical documents from multi-vendor PACS, RIS and other department IT systems to create a more comprehensive patient jacket .

Technical Highlights:

- Scalable & highly redundant infrastructure

- Datalogue supports unlimited storage and computing expansion through virtualization and vendor agnostic technology

- Multi-site load balancing architecture ensures high availability and disaster recovery

- Optional Archiving and Disaster Recovery (DR) as a service provides path to cloud storage

- Datalogue makes it easy to create, modify and implement rules to govern the management of imaging studies across the enterprise

- Dynamic and static tag morphing

Cross-Enterprise Zero Footprint (ZFP) Viewing.

Centricity Universal Viewer Zero Footprint

GE HealthCare's Centricity Universal Viewer Zero Footprint (ZFP) connects advanced diagnostic tools and system-wide image management platforms across the care continuum to help healthcare organizations improve diagnostic speed and confidence.

When delivering urgent patient care, fast and secure access to vital study and patient information across multiple platforms is crucial. With Centricity™ Universal Viewer Zero Footprint (ZFP), all members of a patient's care team can quickly access patients' imaging data from almost any browser or mobile device, providing access directly or through connectivity with your institution's Electronic Medical Record (EMR), HIS, RIS or physician portal applications.

This powerful enterprise viewer provides access to images and reports from anywhere where there is an Internet connection, whether it's on the hospital floor, in surgery, in clinic or at home, to allow clinicians to access and develop clinical insights that deliver patient care and drive operational efficiencies.

It all adds up to faster and more informed decision making as well as more timely and efficient care for the patient.

Centricity Universal Viewer Zero Footprint supports:

- CT, MR, Enhanced CT, Enhanced MR, US, PT, XA, RF, SC, CR, DX, MG, Breast Tomosynthesis[3], IO, SC, VL, NM, Endoscopic, Microscopic and Photographic Images

- 3-D viewing with MPR/MIP and Volumetric Rendering

- View other clinical content in multiple formats, including but not limited to encapsulated PDF objects, audio, video and visible light

Today, patient records cross many media formats. It is often stored in de-centralized archives, often across different departments and even institutions.

Although well intentioned, this traditional but inefficient model creates unintended bottlenecks, voids in data, and lost time when diagnosis and treatment options are being considered. Centricity Universal Viewer ZFP provides access to images and reports from anywhere,[2] whether it's on the hospital floor, in surgery, in clinic, or at home – allowing the clinician the ability to develop patient insights no matter where they are.

That can help provide patient care, as well as better operational efficiencies. Bottom line, data are critical tools to help doctors deliver the best possible care path for patients.

This process has been transformed and modernized by the power of connectivity through the Edison Datalogue clinical viewer, Universal Viewer Zero Footprint (ZFP).

Clinicians and other healthcare providers within your community can now access all of a patient's images and reports anywhere[2] and anytime. By cutting bottlenecks, delivering a comprehensive picture of a patient's current needs and important history, all on a standardized format Edison Datalogue delivers unrivaled connectivity, comprehensive data, and efficiently accessed leads to better care.

> **Whether you are treating a simple fracture or addressing the needs of a critical care patient, each requiring fast, reliable, and comprehensive access to data is "care changing."**

Benefit from Connectivity:

- Connect and synchronize all your data across all existing archives

- Supports launch from your EMR or other 3rd party SW applications

- Connect all your departments and specialties which results in a powerful longitudinal patient record, well beyond traditional DICOM images

- Connect all different sites and institutions across your entire enterprise with a single, robust, and easy-to-access archive

- And we're not done, our system grows with your organization. For example, we also include tag morphing of records as more AI (Artificial Intelligence) applications are implemented

Media Manager:
Quickly and easily capture vivid images using your smart phone or tablet.

Encounter based imaging is becoming more and more frequent. Today's distributed care teams need robust tools designed to help clinicians more easily manage those workflows.

Encounter based imaging is becoming more frequent, with mobile devices such as phones and tablets being used to capture digital patient content in real time. GE HealthCare's Media Manager is an application that enables care providers to capture images and video for documenting patient conditions at the point of care.

Media Manager users can select clinical information about the images from provided menu options and submit the images to GE HealthCare's Datalogue solution for storage and viewing. Users can also upload network files of images, videos and documents through a web browser ingestion browser. Media Manager also allows clinicians to positively identify the patient prior to content

capture. This can be done by scanning a bar-coded wristband or document, creating a link between the patient and their image.

Workflows:

- Media Manager and Encounter Based Imaging Workflows (EBIW)
- Point of care ultrasound (POCUS) EBIW
- Collaboration and Image Exchange
- VNA Analytics and archive management

Minimal disruption
Vendor Neutral Archive that connects with your existing systems and can share information across vendors and domains.

Removes data silos
Unifies and manages data, building a single longitudinal patient record across multiple departments and helps support clinicians in providing more informed decisions.

Increased work efficiency
By providing comprehensive access to the relevant information at the right time, no matter where the exam was taken or where the clinician is located.

Care Continuum
A single imaging solution to provide seamless service to patients as they move across the enterprise, removing the barriers across the whole network.

Datalogue Connect: Allows for Easy Collaboration between everyone on the Care Team.

At GE HealthCare, we understand the fundamental importance of functionality.

Today's healthcare professionals continue to struggle with the seamless exchange of patient data, images, and records, and how to collaborate effectively across all sites of care.

It's no secret that there are numerous healthcare IT companies to choose from – and selecting a vendor for your enterprise imaging needs requires significant consideration. We also know you need to think about the future, and how your investment will be supported.

Datalogue Connect is a multi-purpose, image exchange and collaboration solution which helps distributed care teams to more efficiently and comprehensively collaborate on patient cases. It provides quick and easy image sharing between physicians, medical staff, and any remote healthcare professional who your team needs to collaborate with now.

The Datalogue Connect platform was built and designed to serve various customer deployment models. The platform is highly flexible and can be deployed in a variety of ways, both as an on-premise our via a cloud hosted architecture. Both deployment models ensure a secure and scalable environment.

This includes:

- Seamless integration with existing imaging equipment
- Utilize industry standards to support interoperation with third-party vendors
- World-class service and support
- Rich history and company stability
- Ability to maximize existing IT infrastructure investments such as the EHR and other archives

Datalogue Connect is a multi-purpose, secure, patient data collaboration solution that enables distributed care teams to collaborate on patient cases more efficiently and comprehensively — helping reduce handling costs for foreign studies and time preparing for multi-disciplinary meetings while increasing patient referrals.

In addition, GE HealthCare's team of workflow and application specialists have decades of clinical and IT experience working with imaging organizations to ensure they maximize their investment in new applications. This is a comprehensive pre- and post-implementation engagement that encompasses not just automating current workflows, but also assisting customers to re-imagine their workflows in support of achieving their organizational KPIs. All this combined helps ensure your investment results in optimized imaging workflows and improved care delivery.   And along the way, we're bring people care back to healthcare. That's the GE HealthCare difference.

Create a world where healthcare has no limits

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics, and digital solutions innovator, dedicated to providing integrated solutions, services, and data analytics to make hospitals more efficient, clinicians more effective, therapies more precise, and patients healthier and happier. Serving patients and providers for more than 100 years, GE HealthCare is advancing personalized, connected, and compassionate care, while simplifying the patient's journey across the care pathway. Together our Imaging, Ultrasound, Patient Care Solutions, and Pharmaceutical Diagnostics businesses help improve patient care from diagnosis, to therapy, to monitoring. We are a $18.3 billion business with 50,000 employees working to create a world where healthcare has no limits.

[1] According to Imaging IT - Core Report - World 2023 Signify Research, May 2023
[2] Anywhere the Internet is available
[3] Mammography images may only be interpreted using a monitor compliant with requirements of local regulations and must meet other technical specifications reviewed and accepted by the local regulatory agencies. Lossy compressed mammographic images and digitized film screen images should not be reviewed for primary image interpretations with use of the ZFP viewer.

Datalogue includes the following product components: Enterprise Archive, Centricity Universal Viewer ZFP client, GE XDS try, Centricity Clinical Gateway, Audit Trail Repository, Media Manager, ICW Master Patient Index (MPI), and Lexmark PACS Scan.

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