Health BRIDGE

Data Lifecycle Management Platform

Health BRIDGE DataCare

Quick Start Deployment for AWS

Version: 1.0
February 2026

Table of Contents

About This Guide

This document provides a concise, action-oriented guide for deploying **Health BRIDGE DataCare** with **Amazon S3** as the cloud storage target.

This guide helps you:

- Deploy Health BRIDGE and DataCare
- Connect medical data sources to Amazon S3
- Enable core data management capabilities
- Validate successful operation

This guide does not cover:

- Advanced policy tuning
- Configuration templates
- Deep troubleshooting

For advanced scenarios, refer to the ***Health BRIDGE Administration Guide***. Request full document or ask for information here.

Health BRIDGE

Solution Overview

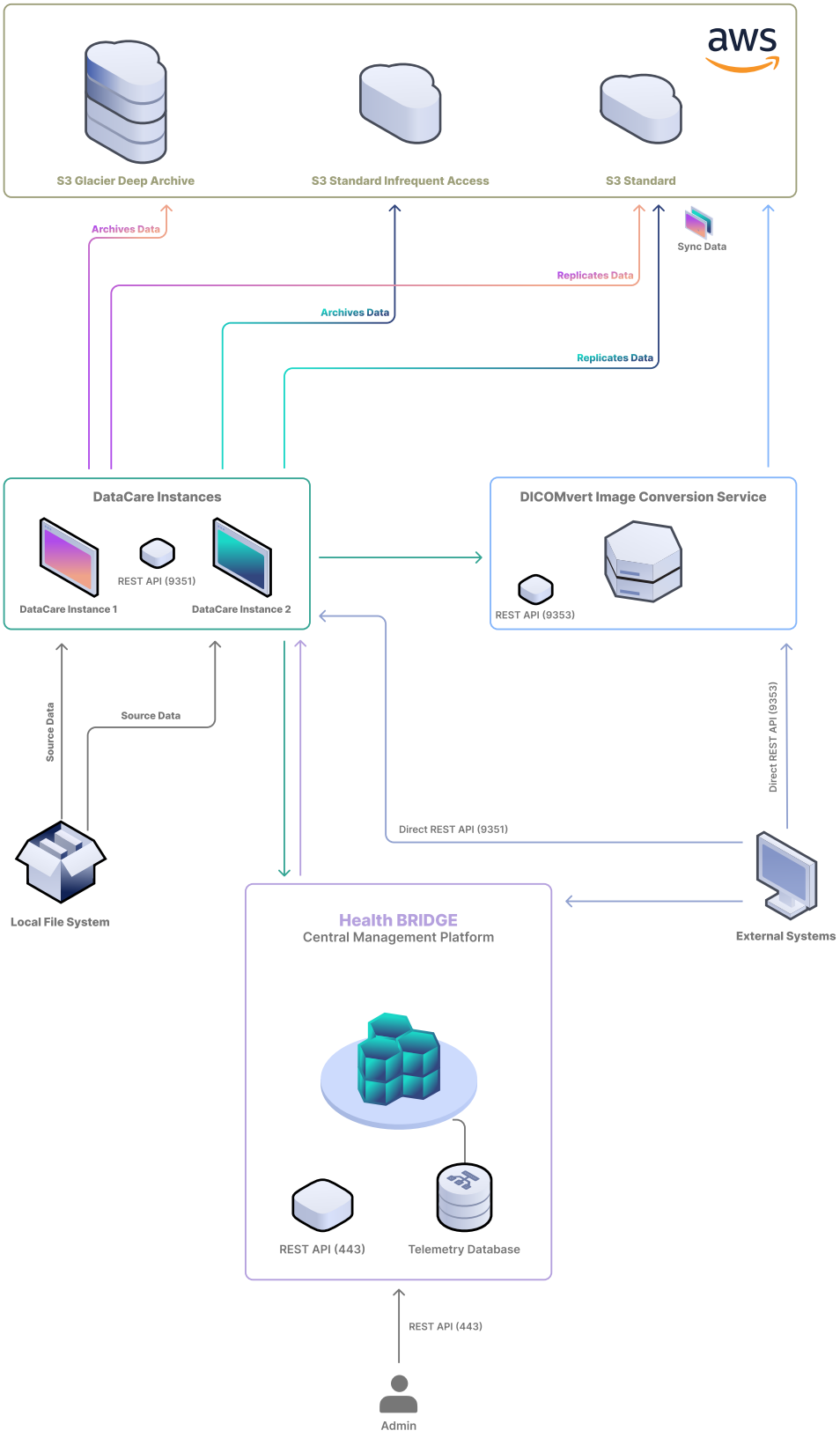
Health BRIDGE is a software platform for lifecycle management of your unstructured medical data to support cloud and AI adoption. Health BRIDGE ensures medical data is properly stored, intelligently tiered, and available at all times wherever you are.

The Health BRIDGE platform provides centralized management and monitoring of DataCare instances, computers running DataCare on the same network. After installing Health BRIDGE on the computer designated to manage the platform, you must add one or more DataCare instances to monitor their activity or manage the Tiger Health Technology software modules running on them.

DataCare links a source location on the computer to a cloud storage target, seamlessly managing data between them through the following automatic mechanisms:

- **Data Replication** - source data is copied to the target for backup purposes.
- **Space Reclaiming** - replicated files on the source are replaced with stub files, which appear identical to the original files for users and applications but do not consume space. The stub files retain a link to the replicas on the target, and when accessed, DataCare retrieves the original files from the target automatically.
- **Data Archiving** - replicated data is moved from frequently accessed tiers on the target to archival tiers for cost optimization.
- **Geo Synchronization** - synchronizes data across two or more sources, each on a different computer, through a common target.
- **Policies** ensuring against data loss on both the source and the target, allowing you to recover accidentally deleted data and keep versions of your files.

All administration, from activating the products to managing their configurations and monitoring all data, storage and processing activity, is performed through the Health BRIDGE web interface, which is accessible from any computer on the same network.


aws
S3 Glacier Deep Archive
S3 Standard Infrequent Access
S3 Standard
Archives Data
Replicates Data
Archives Data
Replicates Data
Sync Data
DataCare Instances
DataCare Instance 1
REST API (9351)
DataCare Instance 2
DICOMvert Image Conversion Service
REST API (9353)
Source Data
Source Data
Direct REST API (9353)
Direct REST API (9351)
Local File System
External Systems
Health BRIDGE
Central Management Platform
REST API (443)
Telemetry Database
REST API (443)
Admin

Supported Deployment Models

- On-premises DataCare connecting to Amazon S3
- Amazon EC2–hosted DataCare connecting to Amazon S3

High-Level Data Flow

1. Data is written to the source location
2. DataCare replicates data to Amazon S3
3. Optional lifecycle actions are applied (reclaiming, archiving)
4. Data is retrieved on demand when accessed

AWS Prerequisites

Before deployment, ensure the following AWS prerequisites are met.

AWS Account

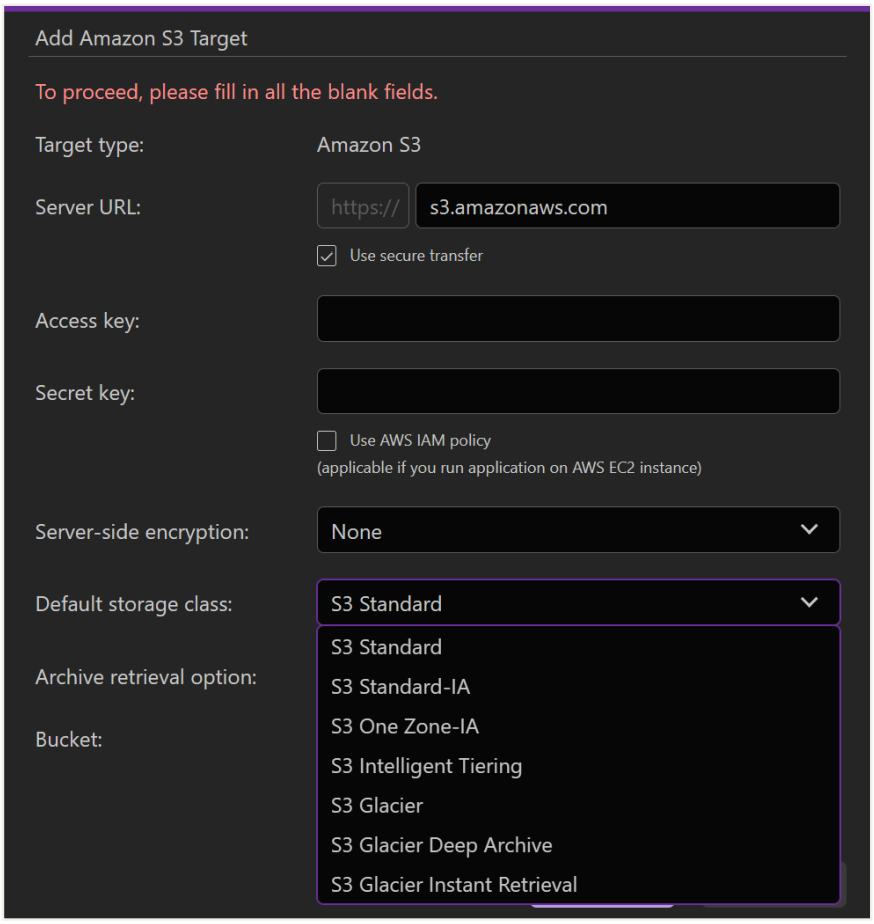
- Active AWS account
- Permission to create and manage Amazon S3 buckets
- Permission to create Identity and Access Management (IAM) users or roles

Amazon S3 Requirements

- One bucket per DataCare source
- Supported storage classes:
    - S3 Standard

- S3 Standard-IA
- S3 Glacier Flexible Retrieval
- S3 Glacier Deep Archive

And more...



- Optional S3 Transfer Acceleration

Network Connectivity

- HTTPS (TCP 443) access to Amazon S3 endpoints
- Stable, low-latency connectivity recommended

Security and IAM

Data Protection Model

- Data encrypted in transit using SSL/TLS
- Data encrypted at rest using Amazon S3 server-side encryption
- Credentials stored locally using AES-256 encryption

IAM Authentication Options

- IAM user with access keys
- IAM role attached to EC2 instance

Required S3 Permissions

- List bucket (optional)
- Read/write objects
- Manage object versions
- Manage lifecycle configuration

Use least-privilege policies whenever possible.

System Preparation

Health BRIDGE Requirements

- Windows 10 / Windows Server 2016 or later
- Minimum 2 CPU cores (4 recommended for multiple instances)
- Minimum 4 GB RAM
- 20 GB of available hard disk space
- 100 Mbit network connection
- TCP ports: 443, 9351

DataCare Requirements

- Windows 10 / Windows Server 2016 or later
- Minimum 2 CPU cores (4+ recommended)
- Minimum 4 GB RAM
- 2 GB of available hard disk space
- TCP ports: 80, 443, 8537, 9351, 9355
- Microsoft .NET Framework 4.8

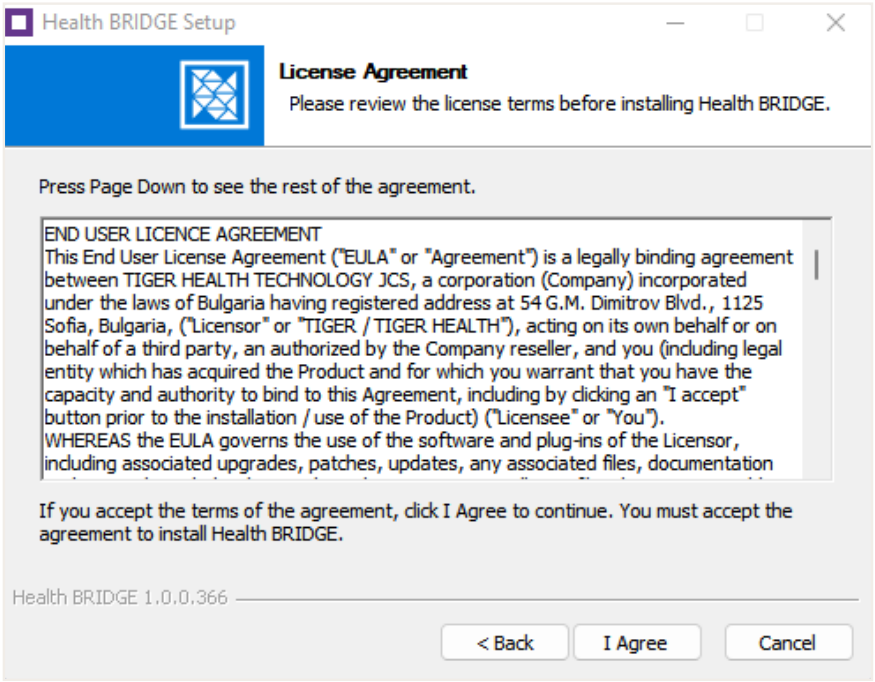
Digital Certificates

- Required GlobalSign and DigiCert root certificates installed

Install the Software

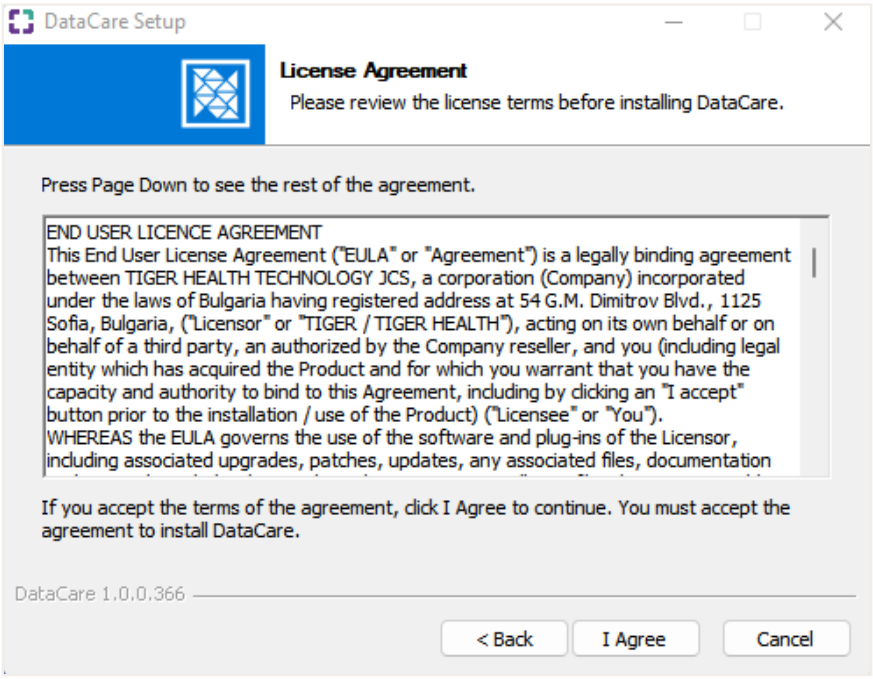
Install Health BRIDGE

1. Run the Health BRIDGE installer
2. Accept the license agreement
3. Complete installation



Install DataCare

1. Run the DataCare installer on each DataCare computer
2. Accept the license agreement
3. Restart the system after installation



Verify Services

- Confirm DataCare service is running
- Confirm Health BRIDGE web interface is accessible

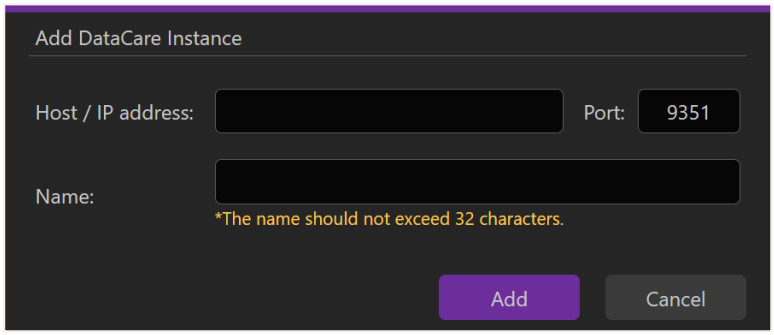
Initial Setup

Access the Web Interface

- Open a browser and connect via HTTPS to the Health BRIDGE server

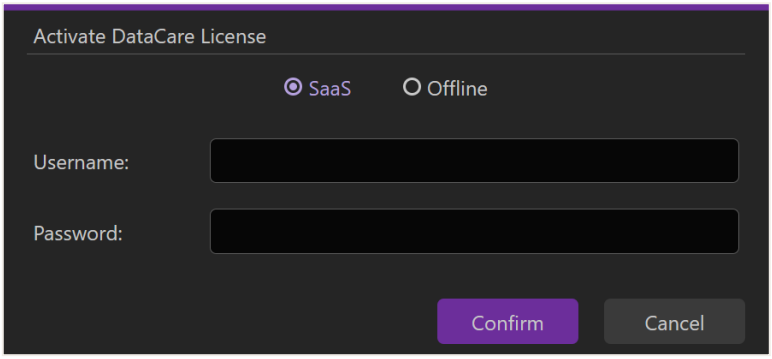
Add DataCare Instances

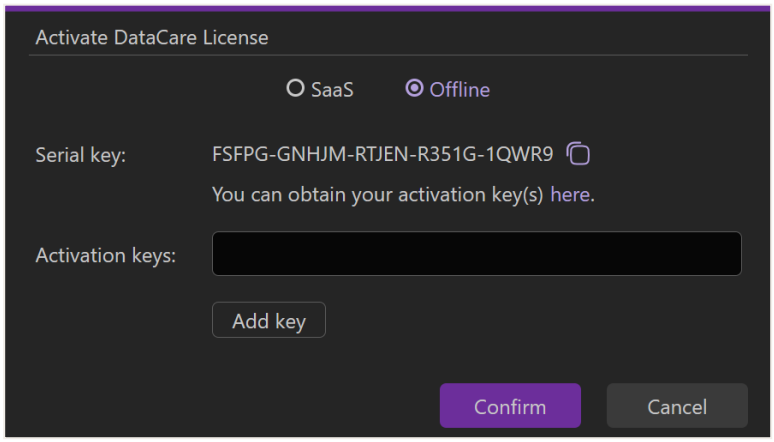
1. Open **Settings > Configuration**
2. Select **Add DataCare**
3. Enter hostname / IP address and name



Activate DataCare

- Activate using SaaS credentials or offline activation key



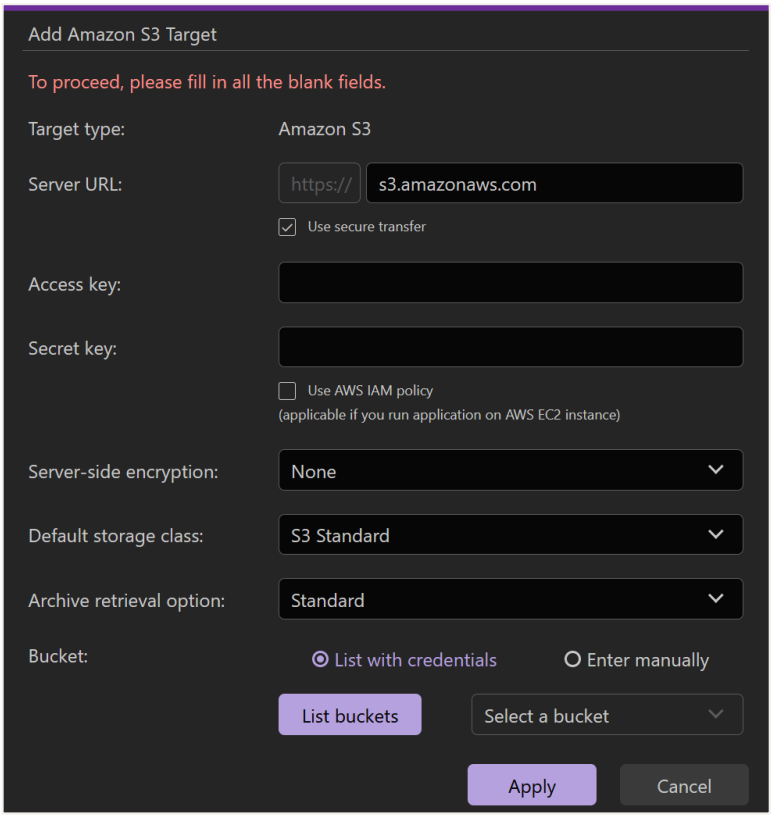


Connect Data to Amazon S3

Select Source Type

- Local NTFS/ReFS volume or folder
- NAS (SMB) share

Configure Amazon S3 Target



- Specify S3 endpoint
- Enter credentials or select IAM policy
- Choose default storage class

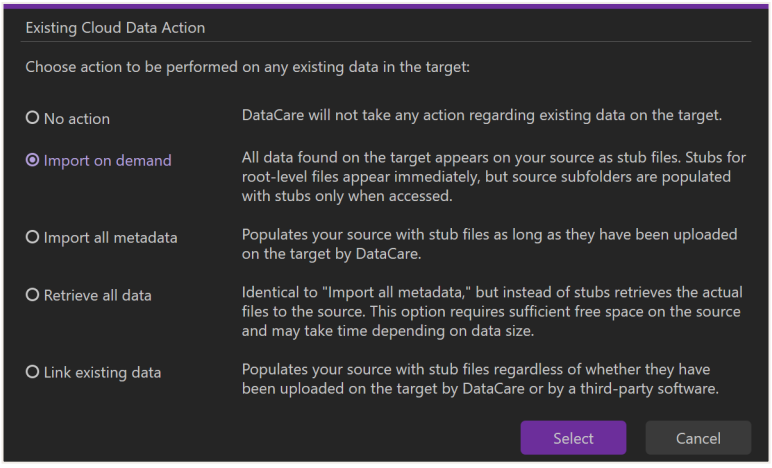
- Archive retrieval option
- Server-side encryption
- Secure transfer is enabled by default; could be disabled
- Enter a bucket

If the user whose credentials you have provided, does not have sufficient permissions to list all buckets, the Health BRIDGE platform provides you with the option to enter the bucket name manually.

Select a separate bucket for each source configured on the same computer.

Handle Existing Data

In the following dialog, select what to do with data already existing in the bucket:



Validate Pairing

- Confirm source–target pair appears active
- Confirm initial replication starts

Enable Data Management

Enable Replication

- Replication is required for all deployments

Optional Space Reclaiming

- Replace replicated files with stubs to free local storage

Optional Archiving

- Move “old” data to Amazon S3 archive tiers

Enable Versioning

- Enable S3 bucket versioning
- Enable DataCare versioning policy

Validate and Monitor

Validate Data Movement

- Confirm files replicate to S3
- Confirm stub file behavior (if enabled)

Monitor Activity

- View various data movement metrics

- Monitor storage usage and throughput

Operational Notes

Cost Considerations

- Archive tiers reduce long-term storage costs
- Retrieval from archive tiers may incur delays and fees

Performance Notes

- Increase CPU cores for high-throughput workloads
- Use parallel replication threads carefully

Common Pitfalls

- Insufficient IAM permissions
- Bucket versioning not enabled
- Firewall ports blocked

Next Steps

- Configure advanced DataCare policies
- Enable synchronization across multiple DataCare nodes
- Review the Health BRIDGE Administration Guide for full configuration options
- Contact Tiger Health Technology support for complex scenarios here

Health BRIDGE

About Tiger Health Technology

Tiger Health Technology, a spin-off of **Tiger Technology**, builds on the success of another venture from the same parent company, **Tiger Surveillance**, which has achieved global adoption and triple-digit growth in the field of video surveillance data management.

Tiger Health Technology is applying this proven expertise to the healthcare sector, where demand for advanced, mission-critical data storage solutions is rapidly growing. This trend presents a strong market opportunity for the company and its partners.

About Health BRIDGE & DataCare

Health BRIDGE is Tiger Health Technology's platform for lifecycle management of unstructured medical data, enabling cloud and AI adoption in digital pathology and healthcare.

Health BRIDGE is a software-only solution that integrates at the file system and/or network share level. It distributes data between the file system and cloud tiers based on user-defined policies and access patterns while preserving its native, non-proprietary format to ensure transparent access. Access to Health BRIDGE platform is facilitated through a secure (https) connection.

Health BRIDGE is a centralized management platform for **DataCare** instances operating within your environment. DataCare connects on-premises or cloud-based storage sources to Amazon S3 and manages the data lifecycle transparently.

Find out more about Tiger Health Technology here.

Catch up on our blog here. Follow us on LinkedIn.

Contact us here.