

Store offers a range of storage services to match data types and the requirements of customer applications. The services acquire, store, and archive data in different types of cloud-hosted repositories.

Value

- **Managed service:** A host of features and advantages that come with a managed service rather than a raw brokered service
- **Collect and store data:** Data from users, health and wellness devices, and clinical datastores in a managed cloud repository
- **Open APIs:** Facilitate access to health data from multiple sources (devices, applications, systems) and enable faster development of consumer and professional applications
- **Data Security:** Secure and encrypted storage capabilities, access control, and healthcare-compliant auditing and logging

Clinical Data Lake (CDL)

CDL is a cloud-based data lake built to collect, manage, and share health research data in a secure and compliant manner. CDL provides data consolidation, offers secure and central long-term data storage, and enables AI-driven use cases.

DICOM Store

This service provides cloud-based storage for DICOM data. It allows for standards-based interoperability between enabled apps and devices with third-party systems via DICOMweb standard interfaces. DICOM Store is based on AWS native architecture. It uses AWS Amazon Health Imaging (AHI) for storing DICOM data and registers the DICOM data in DynamoDB. It uses HSP's IAM service for OBAC and the Audit service for logging audit messages.

For more information,
please go to hsdp.io.

Blob Repository

This microservice can store binary data for further processing, share large data with other services or callers, host firmware for devices, and back up customer data without exporting it from individual stores. You can also combine the Blob Repository with the Data Broker service to create an efficient, cost-optimized, scalable pattern of data storage and distribution.

Telemetry Data Repository (TDR)

This service stores user data and observations as well as device data. Since it is optimized for speed, throughput, reliability, and scalability, it is well-suited as an operational repository for clinical and health data.

With TDR, you can read and write structured and unstructured health, observation, and device data in near-real-time. TDR also includes search capabilities, support for multi-tenancy, standardized APIs, integrated auditing and event logging, and encryption at rest and in transit.

S3 Credentials Service

This service lets you integrate the Authorize Identity and Access Management (IAM) service directly with S3 storage for uploading and downloading data.

- This service defines access permissions for users, generates temporary credentials, and provides direct access to S3.
- **APIs for Administrators** allow you to define policies for users and groups that provide access to S3 buckets and folders.
- **APIs for clients** who need simple and direct access to S3 buckets are also available via the temporary credentials from this service.