

# RED HAT HEALTHCARE INTELLIGENT DATA-AS-A-SERVICE

BROCHURE

*“Four in 10 hospitals had the capability to integrate data into their electronic health records (EHRs) without manual entry.”*

[HEALTHIT.GOV/SITES/DEFAULT/FILES/BRIEFS/ONC\\_DATA\\_BRIEF\\_36\\_INTEROPERABILITY.PDF](https://healthit.gov/sites/default/files/briefs/onc_data_brief_36_interoperability.pdf)

*“We needed a paradigm shift – for us and our customers,” said Nicolaas Botes, executive director of enterprise architecture for TMG. “We needed to move from limited data visibility to real-time visibility.”*

LEARN MORE ABOUT TMG AT [REDHAT.COM/EN/RESOURCES/RH-TMG-HEALTH-DATA-ACCESS-CASE-STUDY](https://redhat.com/en/resources/rh-tmg-health-data-access-case-study)

## INDUSTRY OVERVIEW

Healthcare organizations (HCOs) face growing demand for better, patient-centered care. Because of stricter regulations, payment reforms, and rising consumer expectations, they're also under pressure to increase value while reducing costs. Increasingly, they see data-driven decision making as a key to achieving those aims.

HCOs face significant obstacles. Even determining value in healthcare is difficult. Financial decision support systems are becoming a thing of the past, and HCOs must account for integrated cost structures, supply chain insights, and treatment outcomes. Accessing that data is difficult because of the growing complexity of health and patient information, as well as the lack of interoperability across HCOs. Seamlessly storing, integrating, and managing healthcare data is another challenge.

HCOs are increasingly taking a data-driven approach to proving the value equation (value = safety + outcomes/cost) in the emerging reimbursement environment of value-based purchasing.

## NEXT-GENERATION DATA MANAGEMENT

HCOs need a next-generation architecture to operate in the changing healthcare landscape and address data management issues. They need an architecture that can process data from mobile phones, other smart devices, and electronic health records systems. The next-generation architecture also has to route that new information to a wide variety of new destinations and reconcile disparate operational data across the enterprise into a new agile information resource designed explicitly for additional use.

Enter Data-as-a-Service, the notion that data integration from operational source systems can happen once within a centralized location. This location, typically known as an enterprise data warehouse, can take on several different designs: operational datastores, replications, highly normalized star schemas, highly denormalized atomic datastores, virtual federated data integration, and each variation or combination in between.

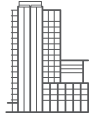
## RED HAT HEALTHCARE INTELLIGENT DATA-AS-A-SERVICE (iDaaS)

Red Hat® Intelligent Data-as-a-Service (iDaaS) offers an unparalleled capability to provide inbound connectors, message consumption, a business rules engine, an action engine, federated access to data sources, caching, and outbound connectors. Red Hat iDaaS emerged from a large community of experts who are passionate about solving 21st-century healthcare problems and making them less costly.

## RED HAT iDaaS FOR HCOs

Red Hat iDaaS is useful for a number of different healthcare scenarios:

- Identifying patients for integrated-care programs
- Creating a “patient finder” to identify patients with potential diseases
- Evaluating drug efficacy based on real-world data
- Reporting misuse of drugs



## ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

- Integrating personal health records
- Benchmarking for risk-adjusted hospital productivity
- Stratifying risk

Red Hat iDaaS architecture features products from the Red Hat JBoss® Middleware suite to provide a low-cost, lightweight infrastructure. This architecture includes:

- Red Hat JBoss Data Grid, Red Hat's in-memory data grid solution, which can elastically scale applications by providing fast and reliable access to frequently used data.
- Red Hat JBoss Fuse, a lightweight integration platform, which reduces the pain of connecting applications, services, processes, and devices for comprehensive, efficient solutions.
- Red Hat JBoss BRMS, a business rules management system, which combines business rules and complex event processing technologies from the Drools community project into a single integrated product.
- Red Hat JBoss BPM Suite, a business process management platform for developing, deploying, and managing process-driven business applications.
- Red Hat JBoss A-MQ, a standards-based, reliable, open source messaging platform, which enables real-time communication among applications, services, and devices.
- Red Hat JBoss Data Virtualization, which integrates data in real time or near-real time from disparate structured, semistructured, and unstructured data sources (on premise or in the cloud) into coherent data services that support business transactions, analytics, and other workloads.

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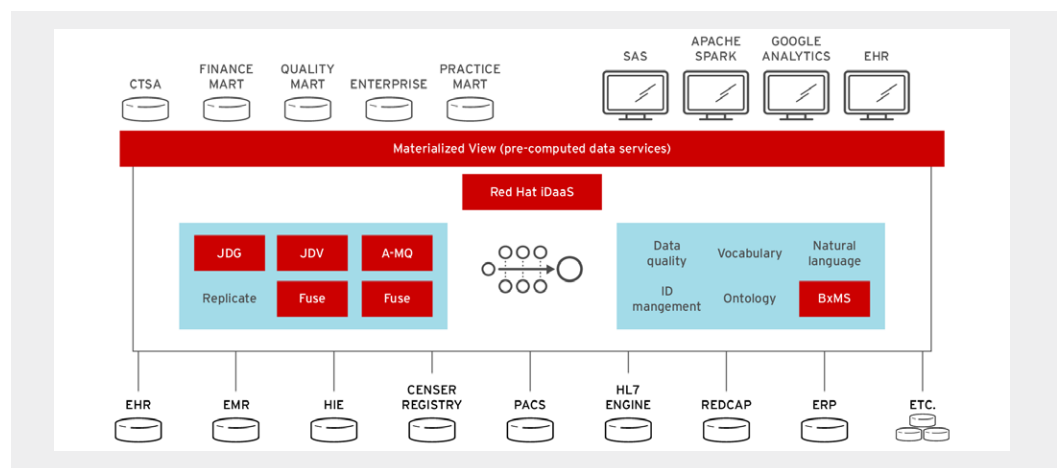
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Red Hat's open source development model is a rapid, highly innovative, cost-efficient approach to making software that's well-suited to the critical IT demands of the healthcare industry. Learn more at [red.ht/health](http://red.ht/health).