



Technology Partner



Big Data. Shared. Simply. Securely.

Dell and PHEMI

The PHEMI Central™ is a production-ready big data warehouse with Dell PowerEdge technology – that drives discovery and fuels innovation with big data economics, while meeting compliance and governance objectives.

- Consolidate all your data – structured and unstructured
- Automatically transform, index, and catalog data for sub-second lookups
- Provide self-serve access to your end users
- Integrate with your existing analytics tools
- Automatically enforce governance, including policies for data sharing, privacy, consent, and compliance
- Gain full control with field-level data management

PHEMI and Dell are helping precision medicine and healthcare organizations turn their complex data into valuable digital assets that drive insights.

The Solution

PHEMI Central is a production-ready big data warehouse with built-in privacy, data sharing, and data governance. PHEMI Central delivers the scalability and economics of Hadoop with indexing, cataloging, fine-grained access control, and enterprise-grade data management.

Economically Integrate all of your Data

The PHEMI Central Big Data Warehouse, built on Hadoop, unlocks your data silos and makes all of your data available for analytic and operational applications.

Big data technology allows you to scale to petabytes of data with cluster economics. PHEMI Central adds simplified deployment and out-of-the-box operations and the ability to integrate immediately with existing data sources and analytics tools. PHEMI's solution simplifies every step, from installation to getting your end users up and running.

Index, catalog, and enrich your data for findability and performance.

PHEMI Central intelligently curates your data from the moment it arrives. Data is indexed and cataloged on ingest for sub-second lookups. PHEMI Central can cleanse, standardize, encrypt, or otherwise process selected information. Data Processing Functions—programs written in common programming languages that operate right in the datastore—allow you to transform data at any point in time, without having to manage the complexities of distributed computing.

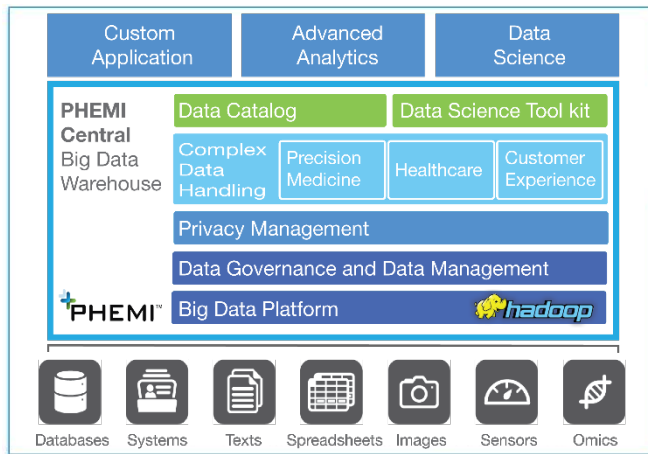
The PHEMI Data Catalog adds the ability to curate virtual datasets for controlled, self-serve, point-and-click access by end users.

Protect and Share Data with Privacy, Security, and Governance

PHEMI's privacy, data sharing, and data governance features let you automatically protect private and sensitive data, while being able to share it with collaborators. PHEMI Central controls access to information at the field level, ensuring rightful access at scale. PHEMI Central can anonymize, hide, or redact data for different user authorizations. Access control based on user attributes and metadata enforces rightful access, and advanced data management features like version control, lifecycle management, and data sharing agreement enforcement help you achieve compliance and governance objectives.

PHEMI Central Big Data Warehouse Healthcare Solutions

With Dell PowerEdge



Dell PowerEdge R320
Dell PowerEdge 720xd

Get Started	7 Nodes	48 Nodes	30 TB
1 Rack	35 Nodes	280 Nodes	175 TB
6 Racks	210 Nodes	1680 Nodes	1 PB

PHEMI and Dell Customer Use Case

Accelerating Breakthroughs in Precision Medicine

The University of British Columbia's Personalized Medicine Initiative is analyzing complex clinical data and uncover new medical insights with a powerful solution for big data analysis and management.

Business Need

The Personalized Medicine Initiative needed to securely store personal data from its precision medicine program employing next-generation molecular profiling to better identify health risks treatments.

Solution

The organization implemented a big data management solution, based on PHEMI software and powered by Dell PowerEdge servers, to give researchers and physicians secure access to clinical and "omics" data sets.

Benefits

- Enables insights that can lead to breakthroughs in diabetes and cancer treatment
- Performs comprehensive analysis of health and molecular biological data
- Helps determine safe, effective treatments
- Keeps personal health information private
- Scales to support unlimited future clinical and "omics" data sets

About PHEMI

PHEMI delivers privacy, security, governance and enterprise-grade management for big data. Its flagship product, PHEMI Central, applies the Zero Trust Data approach, which embeds and enforces consent, data sharing agreements and privacy policies at the data level, removing a critical roadblock standing in the way of enterprises that aim to become data-driven.

PHEMI Central lets organizations easily access and mine any variety of data at any volume to drive insights that lower costs, improve outcomes, and allow better decisions faster. PHEMI brings both privacy and performance to big data. For more information visit www.phemi.com and follow us on Twitter.

The Dell Technology Partner Program

PHEMI is a Dell Technology Partner and PHEMI Central is certified by Dell to run on the Dell platforms specified in the above technical overview.

The [Dell Technology Partner Program](#) is a multi-tier program that includes ISVs, IHVs and Solution Providers. This global program helps partners build innovative and competitive business solutions using Dell platforms. Program resources keep customer costs low and helps to sustain competitiveness.

The program has a structured and streamlined process that combines technology and business strategies with Dell Solution Center expertise to onboard and test partner products on Dell platforms. This testing process helps ensure that products have met the technical requirements to perform well on Dell platforms.

