

# Pentaho Embedded Platform for Data Integration and Business Analytics

Best Practices for Embedding Hitachi Vantara's Pentaho Platform Into Your Application

## DATASHEET

As a software-as-a-service (SaaS) provider, are you seeking to embed a full analytics offering into your application? With compelling visuals, open architecture and an integrated suite of capabilities, including data access, integration and discovery, Hitachi Vantara's Pentaho platform provides an ideal solution.

The Pentaho Embedded Platform for Data Integration and Business Analytics customer success package gives you an opportunity to collaborate with Pentaho experts to architect, implement and deploy a solution that integrates and embeds Pentaho, providing a full array of enterprise business analytics. Pentaho's flexible data integration delivers insight when and where you need it.

## Phase 1 – Workshop

During the workshop phase, we collaborate with your team to architect a solution that integrates and embeds the Pentaho platform into your environment. In this hands-on workshop, we explore the best way to deploy the product's architecture to meet your technical and functional requirements. We use a standard application design methodology to help you reduce your development costs and time to market. This method includes the following steps:

1. Review and discuss project requirements, including deadlines and milestones.
2. Participate in architecture discussions that provide performance, development and maintenance cost tradeoffs between the various techniques of integrating, extending or embedding the technology.
3. Create a high-level project plan that outlines the tasks and deliverables necessary to satisfy your requirements.

Details on Hitachi Vantara's Solution Architecture workshop, which covers integrating, extending and embedding Pentaho and other workshops can be found at:

[www.hitachivantara.com/en-us/services/big-data-analytics-services](http://www.hitachivantara.com/en-us/services/big-data-analytics-services).

### This Success Package Includes

Workshop

Installation and operations

Advanced configuration

Extract, transform, load (ETL) mentorship

Business analytics mentorship

Engagement management

## Phase 2 – Installation and Operations

During the second phase, Hitachi Vantara works with you to install the Pentaho Business Analytics platform in your development and test environments. Integrating traditional installation and configuration activities with a structured consulting engagement plan allows you to successfully prepare and build an analytics solution using the Pentaho platform.

We train the operations team on how to successfully manage and monitor the product from both developer and administrator perspectives.

## Phase 3 – Advanced Configuration

During Phase 3, Hitachi Vantara provides guidance and shares best practices for Pentaho integration options that work with your existing architecture. Topics include:

- Reviewing security needs and finalizing the detailed requirements.
- Identifying flexible multitenant capabilities for secure SaaS and cloud deployment.
- Ensuring rich integration with security, authentication and single sign-on (SSO) frameworks.
- Providing guidance on the integration approaches that are right for your application:
  - Bundled: Analytics with your look and feel.
  - Mashup: Integrated end-user experience.
  - Extended: Customize your integration and analytics.
  - Unified: Direct app integration.
- Assisting in the development of components that restrict data access when:
  - Using metadata within interactive analysis and reporting capabilities of Pentaho Business Analytics.
  - Using MDX data within interactive analysis and reporting capabilities of Pentaho Business Analytics.
  - Access to specified solution folders is requested.

## Phase 4 – ETL Mentorship

In the ETL mentorship phase, we provide hands-on mentorship to your technical team by sharing best practice design and development techniques while creating Pentaho Data Integration (PDI) jobs and transformations. Key steps include:

- Design and build PDI jobs and transformations to load target data structures from source data, based on your supplied mappings.
- Conduct best practice ETL design and development knowledge transfer to your technical team.

## Phase 5 – Business Analytics Mentorship

During Phase 5, Hitachi Vantara provides hands-on mentorship to your technical team by sharing best practice design and development techniques while creating Pentaho Business Analytics content. Key steps include:

- Create online analytical processing (OLAP) cubes.
- Create metadata models.
- Create reports and/or dashboards.
- Demonstrate and refine content.

### Who Should Be Involved?

Project sponsor

Business end users

Product developers

Product testers and quality assurance teams

Software architects

Technical architects

Technology leaders and stakeholders

Developers

Project team leaders and members

# Engagement Management

Hitachi Vantara assigns your organization an engagement manager to facilitate the project and serve as the point of contact. The engagement manager works with Pentaho consultants to guide your team through all phases of the effort. Our engagement management model consists of the following elements:

- Pre-engagement and kickoff meetings to review project requirements, introduce each party's engagement resources, and determine project logistics, such as location and timing of services.
- Collaboration with you to ensure availability of the necessary technical environment required to implement the product.
- Change management to help individuals and teams in your organization prepare for and adopt the new data platform.
- Engagement closure and acceptance.

# Training

Before the start of your project, we recommend that key users participate in several available Hitachi Vantara training courses. Training is essential in helping your project team learn basic business intelligence terminology and key concepts of the embedded platform, as well as how to successfully manage and administer the product.

We offer a variety of training programs for different types of users. A minimum of 15 training credits\* are required for the following courses:

Course	Duration (Days)	Business User	Business Analyst	Data Analyst	Software Architect	Hitachi Admin.	Hitachi Support
AD1000 Installation and Administration	2					•	
SP1000 Support and Troubleshooting	1					•	•
BA1000 Business Analytics User Console	1	•	•	•		•	•
BA2000 Business Analytics Report Designer	2		•				•
BA3000 Business Analytics Data Modeling	2		•	•			•
DI1000 Pentaho Data Integration Fundamentals	3			•			
SLN7000 Advanced Security	2				•		
SLN7100 Embedding Pentaho	2				•		

\* One training credit per person, per day (duration)

Training courses include lectures and hands-on exercises that teach core concepts and implementation practices. Training may take place in a Hitachi Vantara classroom or in a classroom designed by Hitachi Vantara at an organization's site to reduce environment set-up time and ensure a consistent experience for each student.

Choose either a public or private course. Private sessions are optimal for organizations with more than five students. Public courses are available in a classroom setting and online.

Hitachi Vantara also offers three certification programs: Business Analytics, Data Integration and Solution Architect. Details of our certification programs can be found at:

[www.hitachivantara.com/en-us/services/training-certification](http://www.hitachivantara.com/en-us/services/training-certification).

## Benefits

Faster time to market reached via the experience of the enterprise architect, who guides you through the integration options

Reduced maintenance costs achieved through understanding best practices concerning multitenancy, single sign-on, integration with external applications, and extension of product functionality

Insight into the Hitachi Vantara product road map

Developer and administrator mentoring sessions

Development jump-start to accelerate your team's adoption of Pentaho business analytics technology

Knowledge transfer to all product users

## Duration

40 Consulting Days

“We would be dead in the water without Pentaho. Getting an initial consulting and education helped us not only to get up and running pretty rapidly but also to gain the confidence we needed to have on the full power behind Pentaho. We can easily say that having an initial architecture discussion allowed us to go to market three months ahead of schedule.”

– Matt Boisvert, Co-Founder and COO, Pharos Resources

### Package Prerequisites: Requirements and Skills

Overall vision of the solution

Project goals and objectives

High-level requirements, plans and road map for the integration between Pentaho and partner’s application

Hardware environment is available and set up

Participation of all key stakeholders and decision-makers

Administrator and key project team members have been assigned and allocated

Representation from all impacted technology and operational groups

Knowledge of XML, JavaScript and Web 2.0 concepts

A basic understanding of Java programming is helpful, but not critical

### We Are Hitachi Vantara

DataOps is the data practice for the AI era, connecting data consumers with data creators to accelerate collaboration and digital innovation. We are analytics, industrial expertise, technology and outcomes rolled into one great solution partner. Get Your DataOps Advantage.

## Hitachi Vantara



Corporate Headquarters  
2535 Augustine Drive  
Santa Clara, CA 95054 USA  
[hitachivantara.com](http://hitachivantara.com) | [community.hitachivantara.com](http://community.hitachivantara.com)

Contact Information  
USA: 1-800-446-0744  
Global: 1-858-547-4526  
[hitachivantara.com/contact](http://hitachivantara.com/contact)

HITACHI is a registered trademark of Hitachi, Ltd. Pentaho is a trademark or registered trademark of Hitachi Vantara Corporation. All other trademarks, service marks, and company names are properties of their respective owners.

P-006-C BTD August 2019