

HP Enterprise Database Consolidation Appliance Optimized for Microsoft SQL Server 2008 R2

Data sheet

Optimized for Microsoft® SQL Server 2008 R2, the preinstalled, pretuned HP Enterprise Database Consolidation Appliance simplifies database infrastructure management, improves resource utilization, and reduces costs resulting in exceptional levels of return.

To increase your company's agility and speed innovation, you need to rapidly deploy and harness the power of next-generation applications while efficiently managing the exponential growth of business data. Too often, the unplanned storage of massive amounts of data leads to uncontrolled deployment of thousands of single database servers across your network.

These sprawling, siloed server deployments are costly and inefficient as sharing resources and storage is difficult—every time a single database instance begins to run out of space, additional provisioning is required. There are huge overheads involved in getting a new database server up and running and migrating to it. Further, the successful installation and deployment of single database servers can take months to complete, consume more power and physical space, and require more IT resources for their maintenance.

To address these challenges, many enterprises like yours are looking for solutions that consolidate thousands of database servers into a single, virtualized environment with the scalability to accommodate future data growth. But scalability and efficiency are not enough. The solution must allow you to provide quick, effective response to changing business requirements.

The HP Enterprise Database Consolidation Appliance Optimized for Microsoft SQL Server 2008 R2 dramatically simplifies the deployment and management of a virtualized infrastructure and is designed specifically for SQL Server databases. The appliance makes it possible to consolidate hundreds of transactional databases into a single, virtual environment, where new SQL Server instances can be provisioned in minutes and migrations can be accomplished with near-zero downtime. This results in an easier to manage, more cost-efficient solution that delivers the agility your business requires.

Prebuilt virtualization infrastructure for SQL Server workloads

The HP Enterprise Database Consolidation Appliance is an integrated hardware and software offering that provides a simplified, easy-to-use, turnkey experience. Built on HP BladeSystem, HP P2000 G3 Modular Smart Array Systems, and an integrated management software stack from HP and Microsoft, the appliance provides compute, storage, and network resources inside a single rack. This prebuilt and standardized appliance drives down build and deployment costs substantially.

The appliance is engineered with high availability in mind. All hardware components are redundant, down to the communication links and paths. Even the virtualized infrastructure offers protection against failure through host-level clustering. Live migration can be used to move live virtual machines (VMs) from one host node to another to perform host-level maintenance without taking the VMs offline.

The appliance has a centralized management console, which helps provision, migrate, monitor, and maintain your servers, saving time and money. The management tools are preinstalled on the appliance and licenses are sold separately by HP or Microsoft to allow greater flexibility to customers.



Figure 1. HP Enterprise Database Consolidation Appliance



Key features and benefits

- **Reduce database sprawl and improve resource utilization**

As the appliance is built on a virtualization architecture, it pools system resources together for running hundreds to thousands of SQL Server databases. Consolidating your single instance physical servers onto an appliance reduces your organization's environmental impact by reducing up to 75 percent of your resource needs like power, cooling, and space.¹

- **Simplify provisioning, management, and maintenance**

Optimized and tested for SQL Server workloads, the HP Enterprise Database Consolidation Appliance includes tools that simplify infrastructure management and reduce downtime:

- The Database Consolidation Appliance 2012 management software built on Microsoft System Center and SQL Server technologies forms the core of the appliance management software.
- PRO packs, BPA tools, and storage management tools streamline the appliance management.
- A central console simplifies appliance management and maintenance.
- The HP Storage Management Pack creates and provisions storage.
- The customized Microsoft Assessment and Planning (MAP) toolkit makes it easier to discover, size, and place SQL Server databases across the network, onto the appliance.
- The Microsoft Self Service Portal meters resource usage and enables customers to do a chargeback to users, thereby improving resource utilization.
- The one-button-update simplifies firmware and driver updates.

- **Accelerate time to value**

The complete consolidation platform is virtualized and factory-built with integrated hardware and management software to accelerate time to value. As a virtualization platform, it efficiently pools and allocates resources to run thousands of VMs hosting SQL Server instances.

- **Enhance business agility**

The modular design of the appliance allows you to scale seamlessly as your business grows. With the HP Enterprise Database Consolidation Appliance, it is easier to provision new VMs and allocate more storage to databases that need more headroom. The Microsoft Self Service Portal automates provisioning of VM and SQL Server databases.

- **Take advantage of the coordinated HP and Microsoft support**

All components of the appliance will be covered by support from both HP and Microsoft. With Microsoft as your first point of contact for support, HP and Microsoft will coordinate the support for your appliance to provide a seamless experience. Both Microsoft and HP provide a choice of support levels to meet your specific business needs.

- **Leverage the HP and Microsoft partnership to reduce risk**

HP and Microsoft have entered into a \$250 million USD, three-year joint agreement to deliver converged application solutions, including software, servers, storage, networking, services, and support. HP employs more than 22,000 Microsoft certified professionals and is the only Microsoft partner to be named "Enterprise Partner of the Year" four times in a row. HP and Microsoft have jointly developed, configured, tested, optimized, and validated the HP Enterprise Database Consolidation Appliance, and that amounts to reduced implementation risk for your organization.

¹Source: "Microsoft SQL Server 2008 R2—Microsoft SQL Server Technical Article," CMG Group, July 2011.

Model differentiator	Prebuilt and optimized virtualization infrastructure for SQL Server consolidation
Capacity	Base configuration: 29 TB raw disk capacity Full configuration: 57 TB raw disk capacity
Number of servers	Base Configuration: (4) HP ProLiant BL465c Server Blade (8 processors, 96 cores, and 1024 GB memory) Full Configuration: (8) HP ProLiant BL465c Server Blade (16 processors, 192 cores, and 2048 GB memory)
Supported operating systems	Windows® Server 2008 R2 Datacenter Original Equipment Manufacturer (OEM) (preinstalled and license included)
Included software	<ul style="list-style-type: none"> • Microsoft Windows 2008 R2 Datacenter OEM (preinstalled and licensed) • Database consolidation appliance management tools (preinstalled and licensed) including: <ul style="list-style-type: none"> – Enhanced MAP tool – Enhanced BPA tool – Microsoft Appliance Packs – Microsoft PRO Pack – HP Storage Management Tool – HP Insight Control—System Center • Microsoft Database Consolidation 2012 software (preinstalled but licensed separately)—a new product built on System Center and SQL Server technologies; it includes all the management software needed to manage the appliance, including: <ul style="list-style-type: none"> – Self Service Portal Version 2.0 – Custom Microsoft appliance management tools • Prepared installation of Microsoft SQL Server 2008 R2 (bring existing license)
Included support	Industry-leading support, jointly delivered by HP and Microsoft, to provide coordinated support coverage for both the hardware and software components of the appliance
Workload supported	Tier 2/tier 3 SQL Server workloads
Warranty	Three-year parts, three-year labor, three-year onsite

Note: Each VM running SQL Server on the appliance needs a SQL Server license. SQL Server 2008, SQL Server 2008 R2, or later versions are required to support the license-mobility feature; this feature allows you to migrate your SQL Server instances across VMs.

HP Support and Services

HP provides support for the Enterprise Database Consolidation Appliance HP components, including servers, storage, and networking. Support for the Microsoft software is purchased from Microsoft. With your first call to Microsoft, HP and Microsoft will work together to resolve system issues. HP recommends HP Proactive Care Level 3 support to meet your mission-critical needs.

When technology works, business works.

With HP Support services, you benefit from support for all HP components of the appliance. Because the appliance can host many business-critical workloads, you may choose to upgrade to higher service levels to meet your business needs. Services can be upgraded to HP Critical Advantage, HP Proactive 24 Service, or HP Critical Service, or you may add HP Proactive Select.

Factory installation services

HP will integrate, configure, and functionally validate the hardware and software into the appliance at the factory, saving time and reducing your deployment risk. Onsite, we uncrate the appliance, power-on, connect, and verify that the appliance is successfully connected to your network. There are optional services available to assess and migrate your databases onto the appliance to help you realize the consolidation benefits quickly.

HP Services for Data Center Virtualization and Private Cloud

HP Consulting Services for the Microsoft private cloud can extend the appliance with additional cloud functionality such as resource orchestration, to meet your specific needs. For more information, visit <http://www8.hp.com/us/en/services/services-detail.html?compURI=tcm:245-807123&pageTitle=Data-Center-Virtualization-and-Private-Cloud>.

Take your business to the next level and generate exceptional returns with the enterprise-class HP Enterprise Database Consolidation Appliance Optimized for SQL Server workloads. To learn more, visit <http://www.hp.com/solutions/microsoft/dbc>.

Microsoft



Get connected

www.hp.com/go/getconnected

Current HP driver, support, and security alerts delivered directly to your desktop

© Copyright 2011 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation.

4AA3-7250ENW, Created October 2011

