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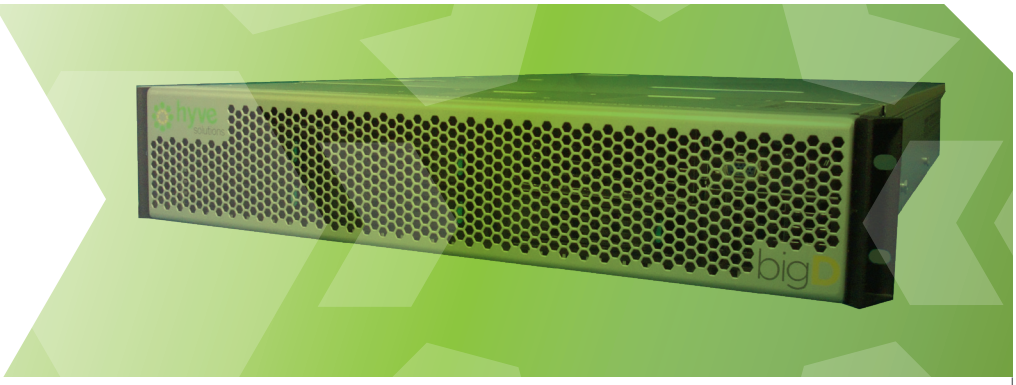

# Hyve bigD Series Hadoop Appliances

**Turnkey Big Data Enterprise Platform -- Automate, Accelerate, and Simplify Hadoop Installation and Cluster Management**

Hadoop can be complex. Hyve bigD Series appliances deliver Big Data solutions to the enterprise, out of the box. Hyve's ready-to-deploy platform simplifies and streamlines Hadoop deployment and helps you achieve faster time to value. Each Hyve bigD appliance runs on pre-installed versions of Red Hat Enterprise Linux Server and Apache Hadoop, and is designed to deliver a scalable infrastructure with the flexibility to grow along with the needs of any Big Data project.

Hyve bigD appliances have been developed to meet the needs of the most demanding IT environments, and include Zettaset Orchestrator™ software for enterprise-class Hadoop cluster management, monitoring, and security. The bigD Series is purpose-built using powerful Intel Xeon processor-based platforms, with fully redundant power and cooling to meet demanding enterprise requirements for availability.

By using Hyve bigD appliances in your Big Data environment, you avoid the time-consuming hassle of selecting, integrating, and configuring multiple components. Hyve does the work for you, with a fully integrated and perfectly tuned Big Data solution.

## Highlights

- Faster time to deployment - Complete turnkey solution right out of the box
- High availability - Redundant power and cooling, automated fail-over and recovery
- Enterprise-class security – Extends beyond the capabilities of competing appliances with fine-grained access control, LDAP policy enforcement, and support for compliance
- High performance - All appliances built on powerful Intel® Xeon processor-based platforms
- Massively scalable – Grows along with your business needs and delivers CAPEX and OPEX relief
- Reduced IT resource requirements - Significantly reduces complex manual configuration processes
- Ease of use – Intuitive graphical user interface streamlines operations and reduces training costs
- Single-vendor support – Hyve delivers an end-to-end hardware and software solution for your Big Data cluster environment, simplifying support and maintenance

partnered with

Zettaset

BROCADE

intel inside™ Xeon®

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## Hyve bigD Appliance Platform Options

The bigD Series8 platforms integrate the Apache Hadoop software framework, high-performance Ethernet switches from Brocade, and sophisticated Zettaset Orchestrator cluster management into a single, easy-to-implement system that can be deployed and expanded in hours - not days or weeks. Hyve offers bigD platforms with flexible configuration choices to meet a variety of enterprise needs.

- Series 8 platform
  - o Starter Kit, 3-Nodes - 10.8 TB capacity
  - o Full Rack – 72 TB capacity
  - o Individual Expansion Node – 3.6 TB capacity
- Series 2 platform
  - o Half Rack – 360 TB capacity
  - o Full Rack – 720 TB capacity

## Integrated Software

- Apache Hadoop – Open-source software framework for scalable distributed computing
  - o Includes Hive, Pig, Sqoop, Flume, Zookeeper, and Oozie open source components
- Zettaset Orchestrator
  - o Automates and simplifies management of the appliance and the Hadoop cluster
  - o Provides enterprise-class security and high availability for the entire Hadoop environment
  - o Eliminates operational complexity and reduces IT resource requirements
- Red Hat Enterprise Linux Server

| Hardware Specifications | |
|---|---|
| **Series 2** | **Series 8** |
| Appliance node includes:<br>o 2 x Intel Xeon® processor<br>o 64 GB DDR3 SDRAM 1333MHz<br>o 12 x 3TB SATA drives<br>o 2-port Brocade 1860 10Gb Ethernet controller<br>o Fully redundant power and cooling<br>o 2u form factor<br>o Dimensions (HxWxD) 3.4" (87.3mm) x 16.9" (430mm) x 27.75" (704.86mm) | Appliance node includes:<br>o 2 x Intel Xeon® processor<br>o 64 GB DDR3 SDRAM 1333MHz<br>o 2 x 1TB SATA drives (utility)<br>o 3.6TB Fusion-IO Memory<br>o 2-port Brocade 1860 10Gb Ethernet controller<br>o Fully redundant power and cooling<br>o 2u form factor<br>o Dimensions (HxWxD) 3.4" (87.3mm) x 16.9" (430mm) x 27.75" (704.86mm) |
| **Configuration Options** | |
| **Series 2** | **Series 8** |
| Starter System — 144 TB<br>o (4) appliance nodes<br>o (1) Brocade 6720-24 port 10GbE switch (SFP)<br>o Necessary SFPs and cables<br><br>Full Rack— 684 TB<br>o (19) appliance nodes<br>o (2) Brocade 6720-24 port 10GbE switch (SFP)<br>o ICX6610 for management network<br>o Necessary SFPs and cables | Starter System – 10.8TB<br>o (3) appliance nodes<br>o Brocade 6720-24 port 10GbE switch (SFP)<br>o ICX6610 for management network<br>o Necessary SFPs and cables<br><br>Full Rack— 72TB<br>o (20) appliance nodes<br>o (2) Brocade 6720-24 port 10GbE switch (SFP)<br>o ICX6610 for management network<br>o Necessary SFPs and cables<br><br>Upgrade Options:<br>o Add-on single appliance node<br>o 3.6TB usable capacity and cables<br><br>Network expansion (needed for > 10 nodes)<br>o Brocade 6720-24 port 10GbE switch (SFP)<br>o Necessary SFPs and cables |

## Safety and Regulatory Compliance

- NRTL Safety Certification
- FCC Verification (USA)

## Warranty

One year warranty, Includes parts, labor, 24/7 phone support, with next business day parts

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