

OmniCube

HyperConverged IT Globally-Federated, Infrastructure Platform



easy with legacy, siloed infrastructure. That's why a new approach is needed support required for virtualized business applications. Simplification is not clutter. It's inefficient, costly, and inhibits IT from delivering the services and Today's data center infrastructure environment is a picture in complexity and

OmniCube: Changing the Game

reduction in complexity compared to today's traditional infrastructure stack. and performance of virtualized workloads—all at a fraction of the cost and extreme functionality that enables dramatic improvements to the management, protection, storage, and networking services, as well as a complete set of advanced environment, OmniCube is a 2U rack-mounted building block that delivers server, SimpliVity's OmniCube is the industry's first and only globally-federated and hyperconverged infrastructure solution. Designed and optimized for the virtual

CAPEX and OPEX Savings

more reliability—at up to 3X TCO savings. efficiency. With OmniCube you'll realize greater agility, easier management and level of functionality and protection, while significantly improving performance and By replacing the cluttered infrastructure stack, OmniCube delivers an equivalent

VM Centricity

mobility. This empowers a single VM administrator to manage the infrastructure OmniCube is designed with the VMs running your business applications as the focal point of the IT infrastructure, managing policy at the VM level and enabling VM entirely through a familiar console—VMware vCenter







OmniCube Overview

SERVICES: High availability performance, and serviceability CORE INFRASTRUCTURE

environments in small increments SCALE-OUT: Scale to very large SIMPLIFIED, EXTENSIVE

deduplicated, compressed and optimized before being written to disk—without impacting performance. INLINE EFFICIENCY: All data is

REPLICATION: Efficient data transfer BANDWIDTH EFFICIENT

at local and remote sites—including the cloud within and across OmniCube systems

INTEGRATED DATA PROTECTION: frequent as every 10 minutes. replicate VMs to deliver RPOs as Easily and automatically back up and

on a per VM basis. can be moved to/from the public cloud PUBLIC CLOUD INTEGRATION: Data

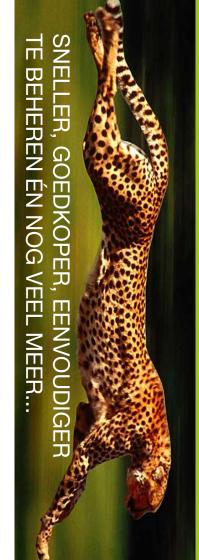
actions, policies, and management are

VM-CENTRIC MANAGEMENT: All

PERFORMANCE: Provides high-speed CACHE ACCELERATED access to the hot data



DATASHEET SIMPLIVITY OMNICUBE



Federation

you to simultaneously improve operations, management, and data protection of your VM environment, while radically simplifying resources that enables efficient data movement, extensive scalability, and enterprise-class system availability. OmniCube enables II infrastructure Deploying two or more OmniCube systems creates an OmniCube global federation, a massively-scalable pool of shared

The Technology: Attacking Complexity At The Source

cloud-integrated applications. OmniCube, powered by OmniStack, solves the data problem with its Data Virtualization Platform. At the root of today's infrastructure complexity problem is an antiquated data architecture that is not suited for today's virtualized and

OmniStack incorporates three breakthrough innovations:

- 1. Hyperconvergence: A single software stack that combines multiple traditional IT infrastructure functions in a single shared
- all data at inception, enabling data granularity of just 4 KB to 8 KB blocks. The Data Virtualization Platform is powered by the Data Virtualization Platform: The core technology that performs inline data deduplication, compression and optimization on

OmniCube Accelerator, SimpliVity's PCle card that offloads compute-intensive tasks to deliver enterprise-class performance.

through a single pane of glass. environments, as well as global VM-centric management. A single administrator manages the entire global infrastructure managing billions of fine-grained data elements. It enables data movement and sharing in multi-node and multi-site 3. Global Unified Management: The collective OmniCube systems form an intelligent network of collaborative systems

OmniCube Models

that apply to a broad range of environments and use cases The flexible architecture of OmniStack allows SimpliVity The Data Virtualization Company to offer a range of OmniCube models

3.43"H x 17.5"W x 28.5"D (30.5" with bezel
3.43"H x 17.5"W x 28.5
0 10 mm 2
Standard 2U Rack Mounted Chassis
2 x 10 GbE (SFP+) and/or 2 x 1 GbE (RJ45)***
2 x 10 GbE (SFP+) 2 x 1 GbE (RJ45)
128 - 412 GB [™]
16 - 24 cores
20 - 40 TB*
8 x 3 TB HDD
4 x 400 GB or 800 GB SSD
Majority of workloads across a wide range of environments from smallest IT organizations to largest enterprises.
CN-3000

Effective capacity varies by environment, and is a function of the realized deduplication and con and deduplication rates found in standard primary storage use cases.

RAM Usable capacity represents estimated memory resources available to virtual applications Optional networking ports available for systems with more than one CPU.