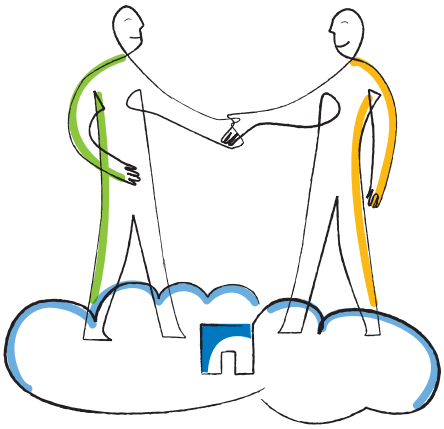

Datasheet

VMware Built on FlexPod Data Center Solution

KEY BENEFITS

- Gain best-in-class technology from three industry leaders on one unified infrastructure.
- Accelerate deployment by 50%[1] and reduce risk with fully validated, standardized configurations.
- Slash capex and opex with optimized resource utilization and centralized management of your virtualized environment.
- Enhance IT flexibility and investment protection with an adaptable architecture that easily scales for the future without design changes.
- Reduce risk with an always-on infrastructure and built-in high-availability redundancy at each layer.
- Eliminate planned downtime with nondisruptive data mobility for load-balancing and upgrades.

VMware Built on FlexPod

The FlexPod® data center platform is designed to help your organization make the transition to the cloud and deliver IT as a service. FlexPod offers a highly adaptable multiprotocol unified architecture across compute, network, and storage layers. It is composed of Cisco® UCS™ servers, Cisco UCS Manager, the Cisco Nexus® family of switches, and NetApp® FAS storage arrays with a complete suite of data and storage management software. FlexPod also supports the NetApp clustered Data ONTAP® architecture for a unified solution that's always on and scales easily to tens of petabytes to accommodate and complement highly virtualized VMware® infrastructures.

VMware built on FlexPod is a validated solution for virtualized environments jointly developed by Cisco, NetApp, and VMware. It augments all of the Cisco and NetApp hardware and software components with VMware vSphere® and vCenter™. VMware built on FlexPod offers right-sized, standardized configurations and processes for consistent deployments that eliminate guesswork. It enables your organization to quickly transform your data center with minimal risk and run your critical applications safely and efficiently.

VMware built on FlexPod also integrates with VMware's vCloud® Suite, a complete solution for building and managing a cloud infrastructure. VMware built on FlexPod, in combination with the vCloud Suite—including vCloud Director™, vFabric Application Director, vCloud Orchestrator™, vCloud Connector™, and more—helps enterprises fulfill the promise of a software-defined data center.

Transform Your Data Center 50% Faster with an Adaptable, Prevalidated Data Center Solution

VMware built on FlexPod differs from other virtualized data center offerings by providing:

- **Highly scalable architecture.** Scales up within each architectural component or scales out to meet today's requirements and future growth—from basic virtualization through IT as a service—on a single platform, including the capability to add storage nodes and massively expand single FlexPod storage capacity.
- **Flexible IT for any cloud environment.** Simultaneously supports multiple virtual data centers with a variety of mixed application workloads. It can be optimized for virtual desktop or server infrastructures, secure multitenancy, and private or public cloud environments.

1. Based on lab testing of solution conducted by Cisco and NetApp.

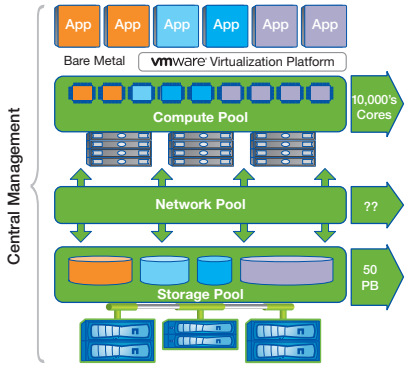

Figure 1) VMware built on FlexPod operating with clustered Data ONTAP.

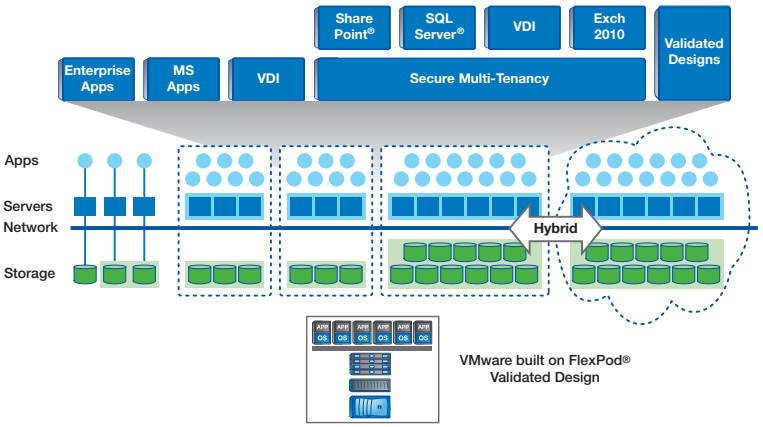

Figure 2) Simplify your journey to ITaaS.

- **Adaptable, always-on architecture.** Provides high-availability redundancy at the server, network, and storage layers to absorb failures without affecting users, It improves service levels by automatically assigning data to optimal storage tiers.
- **Data center efficiency.** Transforms IT into a cloud service provider for unprecedented responsiveness to the business. It delivers extreme resource consolidation, enables resource pools to be managed as a single dynamic asset, and automates and simplifies administration, slashing operating costs.
- **Transparent data mobility.** Eliminates planned downtime with nondisruptive data migration for load balancing, maintenance, and technology refreshes.
- **Investment protection.** Standardized and unified platform leverages your existing infrastructure and scales to support securely isolated virtual data centers without disruption or future architectural changes.
- **Centralized, open management.** Tight integration and open APIs reduce administrative cost and complexity by enabling server, network, and storage layers to be managed from a single VMware vCenter console.

IT ATTRIBUTE	VMWARE BUILT ON FLEXPOD®
Infrastructure efficiency	**Compute:** Consolidate servers 10:1 **Memory:** 60% less **Storage:** 50% less **Network:** 90% fewer cables & ports
Power and cooling	25% to 50% less
Integrated management	Manage 10x to 20x more per FTE
Provisioning new infrastructure	Minutes versus weeks
Service level management	Automatic, in real-time
TCO	25% to 50% savings

Figure 3) Measurable results.

SOLUTION COMPONENTS

Leading Components from VMware, Cisco, and NetApp

VMware vSphere, VMware vCenter

Cisco Unified Computing System™ and Cisco Nexus family switches

NetApp FAS, clustered Data ONTAP and complete software suite

Partners' Value-Added FlexPod Data Center Solutions

Mutual Cisco, NetApp, and VMware partners are dedicated to helping organizations solve problems by using our proven technologies and methodologies. These world-class IT services and solutions organizations have joined forces with industry leaders NetApp, Cisco, and VMware to deploy a unified, highly scalable next-generation virtualized data center architecture composed of innovative solutions that help you rapidly deliver flexible IT in your business.

Cooperative Support for Rapid Resolution

Our cooperative support model offers a well-coordinated, streamlined response from Cisco, NetApp, and VMware. It includes a unified FlexPod support lab with colocated experts to identify, simulate, and rapidly resolve problems. With global 24/7 access, you get expert technical support whenever you need it.

Let's Get Started

To learn how the VMware built on FlexPod data center solution can enable you to transform your data center into a shared infrastructure, go to *www.netapp.com/flexpod/vmware*.

About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at *www.netapp.com*.

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