



Technical Deep Dive Into Hyper-Convergence & Learn How it Can Simplify IT

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Agenda

- ✓ Maxta at a Glance
- ✓ Hyper-Convergence and its Benefits
- ✓ Architecture and Key Features
- ✓ Deployment Models – Appliance, RA, Software-Only
- ✓ Use Cases
- ✓ VDI Use Case Explained
- ✓ Summary



Maxta Maximizes the Promise of Hyper-Convergence

Any Server
Any Hypervisor
Any Storage Device
Any Data Service

- ✓ Founded in 2009
- ✓ 18+ Months of Paying Customers
- ✓ Funded by Tier 1 VCs
 - Andreessen Horowitz
 - Intel Capital
 - Tenaya Capital
- ✓ Intel Development Partner
- ✓ Hyper-Converged Solutions
 - Hyper-Convergence: MaxDeploy
 - Software-Defined Storage: MxSP

Hyper-Convergence Defined



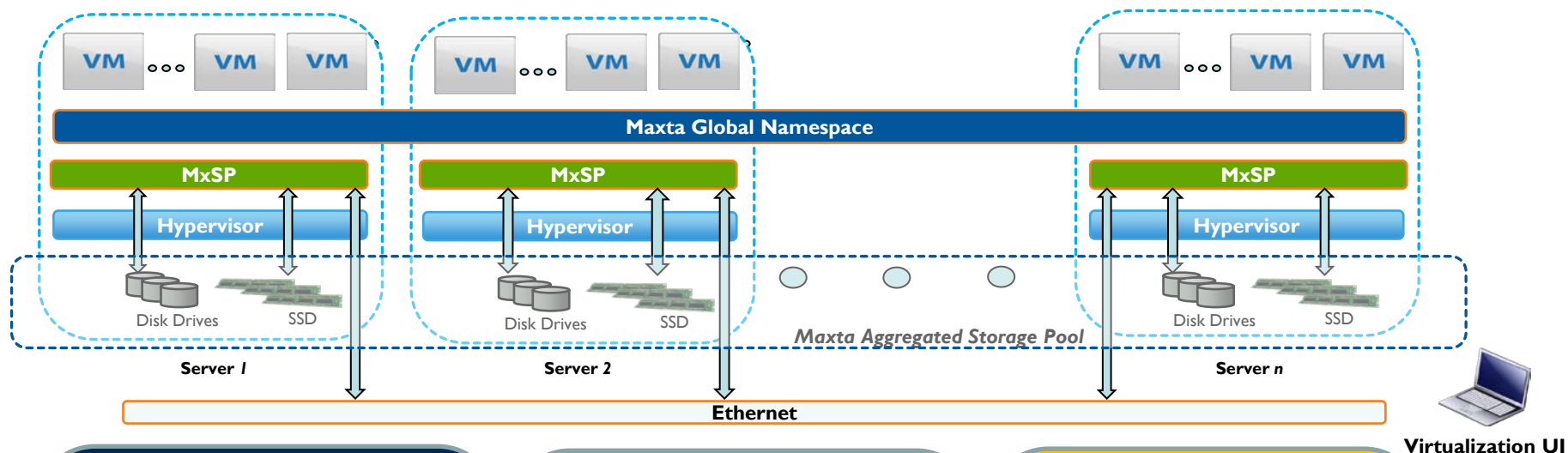
- ✓ The melding together of previously disparate data center resources
 - Converges Applications and Storage on Industry Standard Servers
- ✓ Provides Shared Storage Capabilities
- ✓ Supports High Levels of Scale-out
- ✓ Supports Physical and/or Virtualized Environments

Benefits of Hyper-Convergence

- ✓ Streamlined infrastructure deployment processes
- ✓ Simplified IT operations
 - No more complex storage environment to manage
- ✓ Granular Lego-like scalability
 - Scale by adding more blocks
- ✓ Significant performance improvements over typical legacy infrastructure
 - Flash storage is leveraged judiciously
- ✓ Ability to leverage commodity hardware
 - Low cost hardware bound together by powerful software



Maxta Storage Platform Architecture



Enterprise-class Data Services

- Global Namespace
- Snapshots
- Clones
- Capacity Optimization
- Data Integrity & High Availability

Performance

- SSD – Write-back/Read/Metadata caching
- Dynamic Auto Tiering
- Data Locality
- Align application and storage block size

Multi-hypervisor support

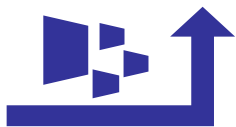


Maxta Storage Platform Features and Functionality



Data Integrity

Automatically detect and fix data integrity issues due to hardware failures



Simplicity

Manage VMs not Storage



Data Protection

Protect your application simply and effectively



High Availability

Minimize application downtime
Support for Stretch Storage Metro Cluster



Capacity Optimization

Thin Provisioning
Snapshots & Clones,
Compression, De-duplication



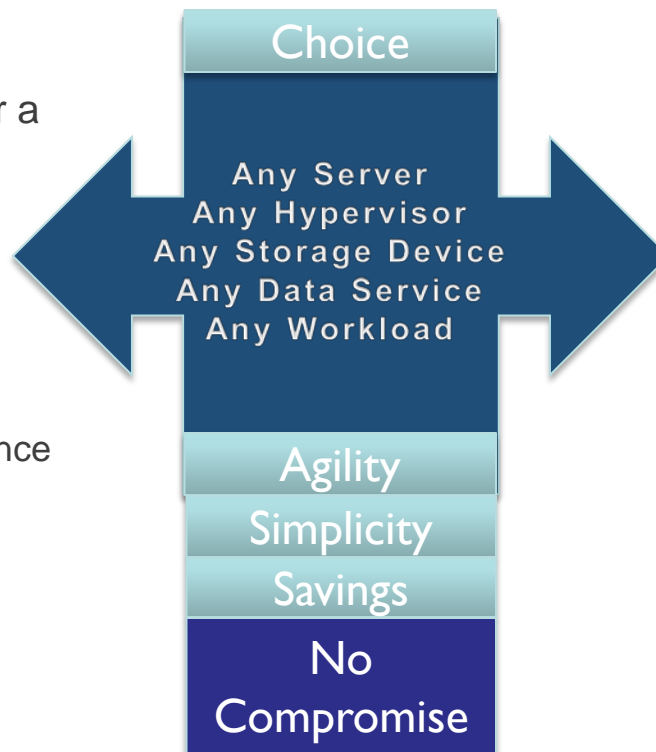
Performance & Scalability

Eliminate tradeoffs between performance and cost

Linear on-demand Scalability

MaxDeploy

- ✓ Reference Architectures for a Hyper-Converged Infrastructure
- ✓ Peace-of-Mind
 - Interoperability
 - Flexibility
 - Predictability of Performance
 - Ease of Ordering
- ✓ Channel Integration



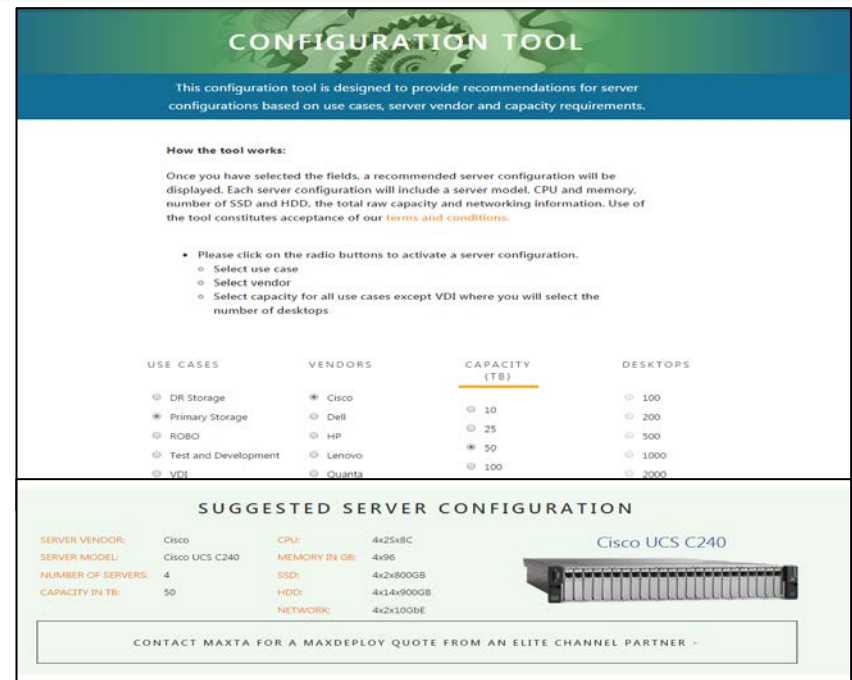
MxSP

- ✓ Software-Defined Storage
 - Software Only
 - Perpetual License & Subscription
- ✓ Flexibility
 - D-I-Y: Your Choice in Hardware
 - Works with Existing Infrastructure: No forklift upgrades
- ✓ Full Featured
 - Enterprise Class Data Services
 - 1st to Run on Intel Xeon E5-2600 v3 processors (Grantley)

Provides Organizations Choice in Hyper-Convergence and Peace of Mind Through Pre-Validated Reference Architectures

✓ Benefits

- Tested and validated configuration
- Predictable performance
- Scale-up and Scale-out
- Provide choice



CONFIGURATION TOOL

This configuration tool is designed to provide recommendations for server configurations based on use cases, server vendor and capacity requirements.


How the tool works:

Once you have selected the fields, a recommended server configuration will be displayed. Each server configuration will include a server model, CPU and memory, number of SSD and HDD, the total raw capacity and networking information. Use of the tool constitutes acceptance of our [terms and conditions](#).

- Please click on the radio buttons to activate a server configuration.
 - Select use case
 - Select vendor
 - Select capacity for all use cases except VDI where you will select the number of desktops

USE CASES	VENDORS	CAPACITY (TB)	DESKTOPS
<input type="radio"/> DR Storage	<input checked="" type="radio"/> Cisco	<input type="radio"/> 10	<input type="radio"/> 100
<input checked="" type="radio"/> Primary Storage	<input type="radio"/> Dell	<input type="radio"/> 25	<input type="radio"/> 200
<input type="radio"/> ROBO	<input type="radio"/> HP	<input checked="" type="radio"/> 50	<input type="radio"/> 500
<input type="radio"/> Test and Development	<input type="radio"/> Lenovo	<input type="radio"/> 100	<input type="radio"/> 1000
<input type="radio"/> VDI	<input type="radio"/> Quanta		<input type="radio"/> 2000

SUGGESTED SERVER CONFIGURATION

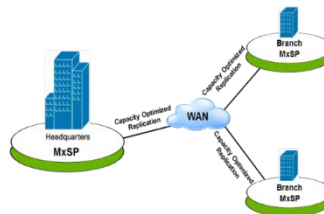
SERVER VENDOR:	Cisco	CPU:	4x25x8C	
SERVER MODEL:	Cisco UCS C240	MEMORY IN GB:	4x96	
NUMBER OF SERVERS:	4	SSD:	4x2x800GB	
CAPACITY IN TB:	50	HDD:	4x14x900GB	
		NETWORK:	4x2x10GbE	

CONTACT MAXTA FOR A MAXDEPLOY QUOTE FROM AN ELITE CHANNEL PARTNER -

Use Cases



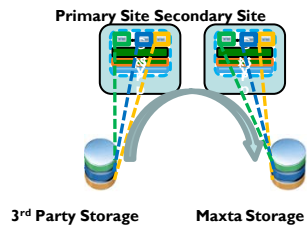
Primary Storage



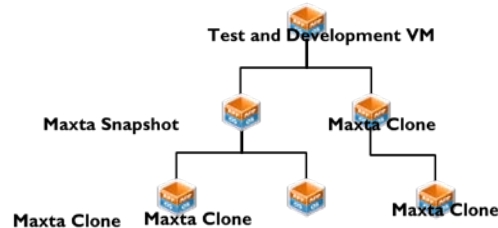
Remote/Branch Office



Virtual Desktop



DR Storage

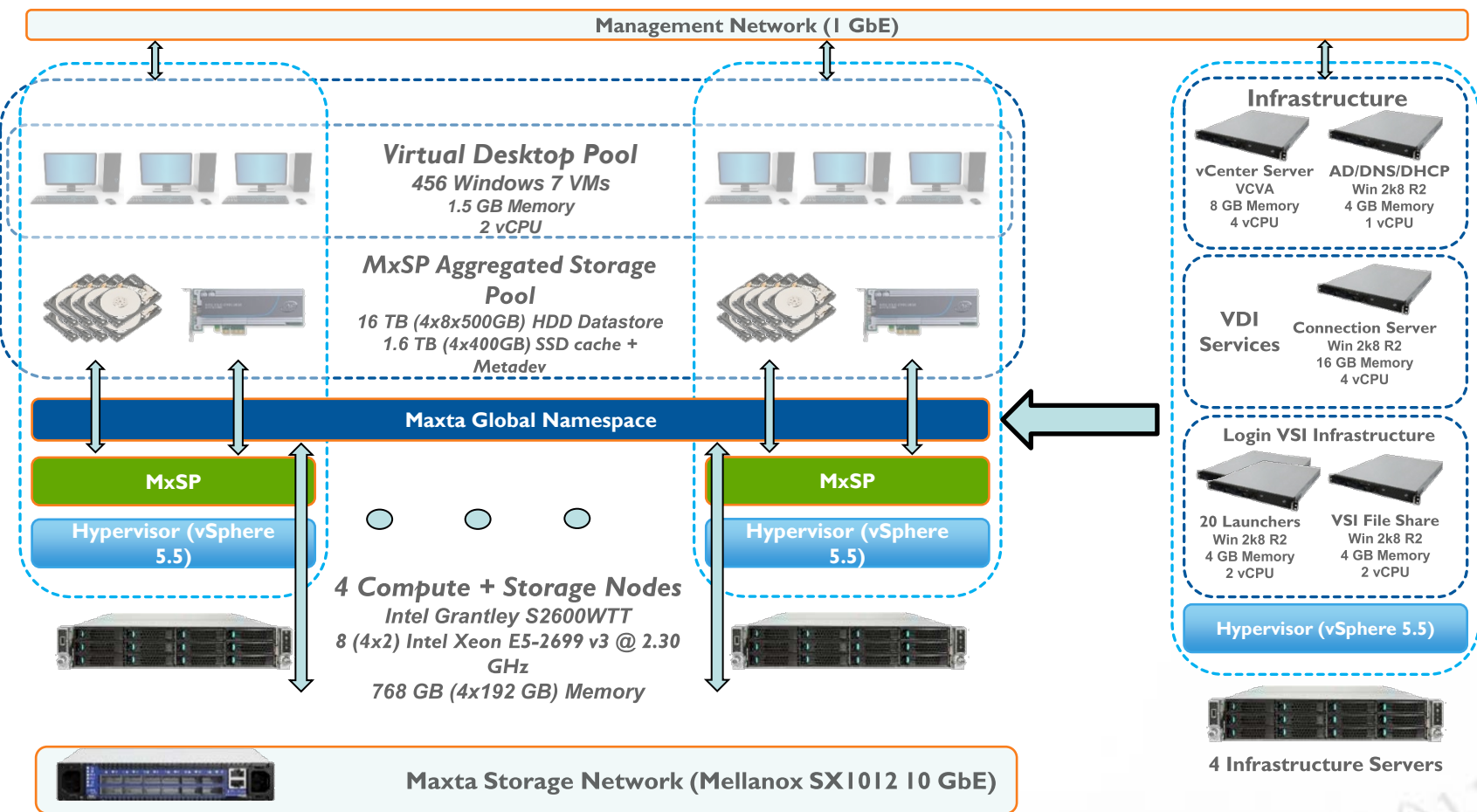


Test and Development



Managed Service Providers

MaxDeploy VDI Reference Architecture Design



MaxDeploy VDI Reference Architecture Delivers Linear Scalability



Maxta Storage Platform (MxSP)

Number of Desktops	100	300	456
Number of Nodes (ESXi hosts)	2+1*	3	4
Number of stuck or unresponsive desktops (Sessions)	0	0	0
Controller VM configuration (CVM)	4vCPU/8GB Memory	4vCPU/8GB Memory	4vCPU/8GB Memory
Performance Metrics			
Minimum response time (VSIbase)	877 ms	843 ms	843 ms
Average response time (VSI _{max} Average)	960 ms	984 ms	995 ms
Maximum response time (VSI _{Max} Threshold)	1878 ms	1843 ms	1844 ms

Benefits

- Linear Scalability
- Small footprint
- Consistent Performance

* 2 Hyper-Converged Compute and Storage Nodes + 1 Compute-Only node

Maxta Value Proposition

Maximize the Promise of Hyper-Convergence

~~SAN~~ ~~NAS~~ ~~Compromise~~

Maximize Choice



Any Server, Any Hypervisor
Any Storage, Any Workload

Maximize IT Simplicity



Manage VMs, NOT Storage

Maximize Cost Savings



Standard Components and Capacity Optimization

Provide High Levels of Data Resiliency, Availability, and Protection

Maximize the promise of hyper-convergence

maxta

Think outside the storage
box

