

Hitachi Data Systems HUS-VM Architecture Overview

HDS Global Account Team



INTEGRATED SCALABLE PORTFOLIO

HITACHI
Inspire the Next

Hitachi Unified
Storage 100
Midrange



HUS-VM
Unified Virtual Controller
Entry Level Enterprise

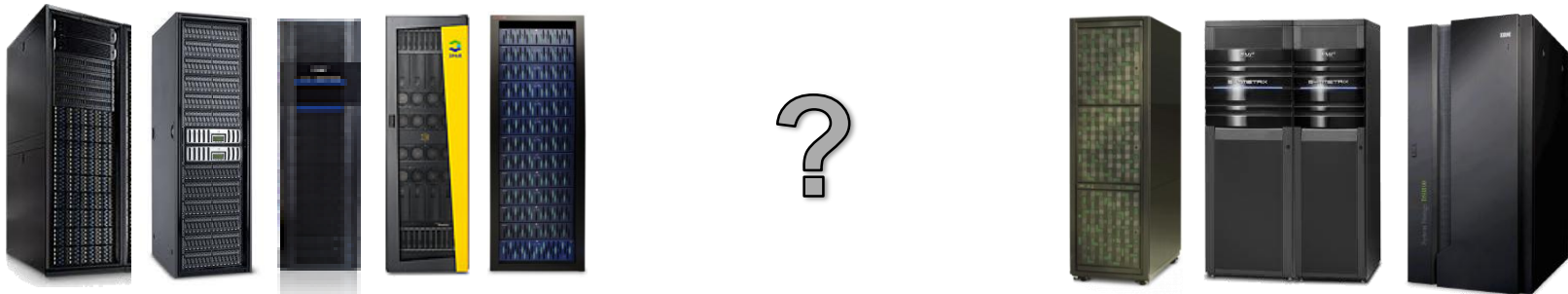


Virtual Storage
Platform
Enterprise



HUS-VM

Forcing a choice between midrange and enterprise storage



Management complexity

Missed service levels

Disruptive data movement

Lower storage efficiency

Enterprise class features and functions
at a mid-range price point.



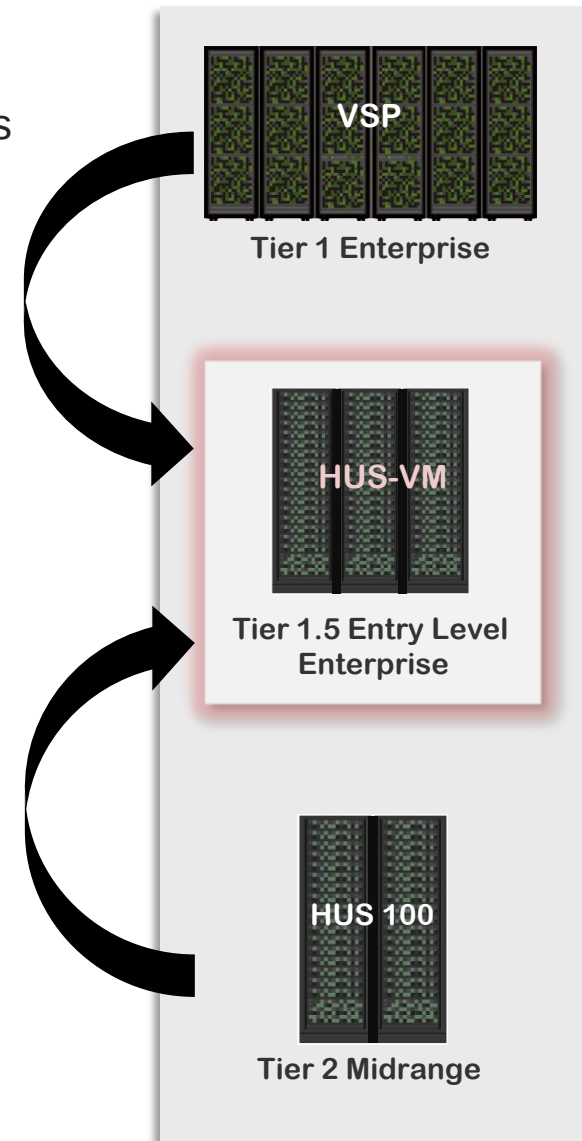
Same management tools as the VSP

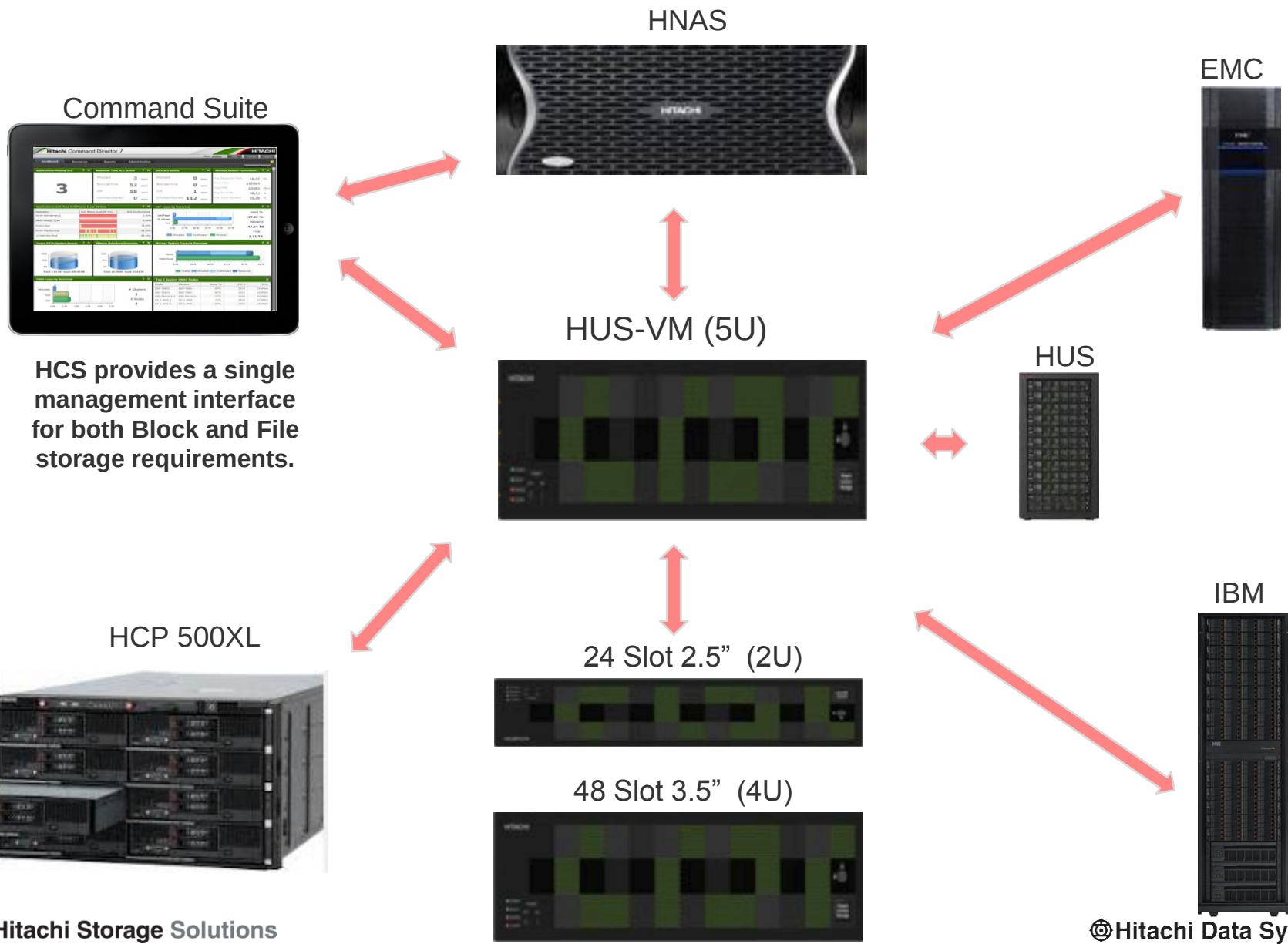
Enterprise class redundancy and data protection

Online data mobility and migration

Greater storage efficiency

- HUS-VM is a new storage system that combines the best attributes of our existing VSP and HUS 100 products into a new product designed for the Tier 1.5 market.
- Design attributes from the VSP:
 - Robust microcode base with its features for open systems
 - Clustered controller architecture with global cache
- Design attributes from the HUS 150:
 - Modularized form factor, installable in any standard 19" rack (using Hitachi supplied rails).
 - Disks and Disk Trays are common at the hardware level (firmware installed on disk trays is unique to each platform)
 - Improved hardware ergonomics and software usability





DESIGNED FOR RESILIENCE AND THE HIGHEST AVAILABILITY



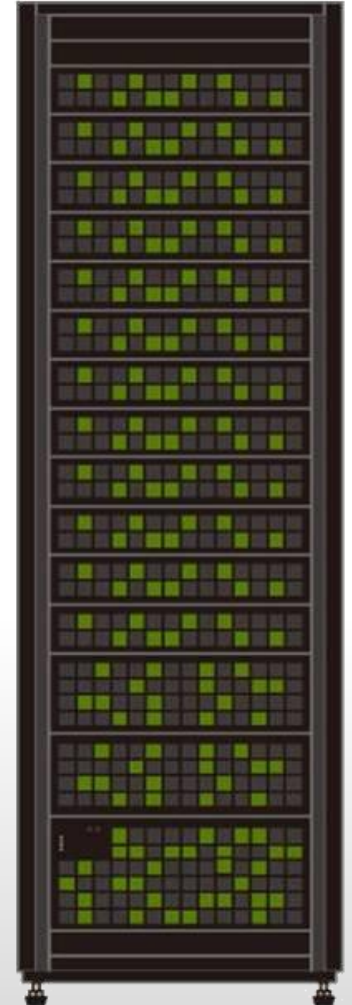
- Ensure uninterrupted access to data
- Automatic diagnostics with call home service
- Update without service interruption

**Hitachi HiTrack®
Monitor Service**

**Online service and
microcode updates**

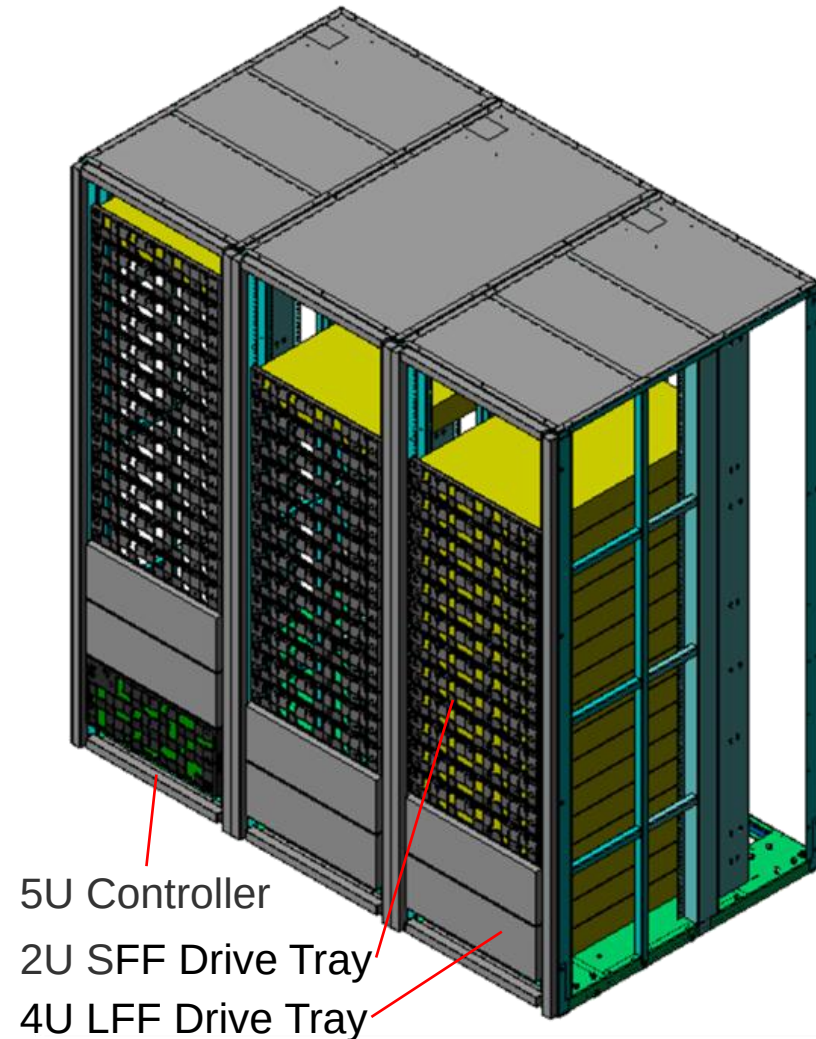
**Active – active clustered
file services**

**Shared resource
block controllers**



Physical overview

System			Specification
CPU	Type		Intel Xeon (Sandybridge)
	Cores/Sys.		16
Drives	2.5"		1,152
	3.5"		1,152
Cache			256GB*
FE Ports	FC 8G		32
	FCoE 10G		16*
	iSCSI 10G		16*
BE Ports	Type		SAS-6G
	Ports		32 (4WLx8)
Enclosures and Trays	Controller		5U
	Drive Trays	3.5"	48HDD/4U
		2.5"	24HDD/2U
Rack			19"/42U or Customer
Performance Targets	Bandwidth from Disk		Seq: 11GB/s
			SPC-1: 150K IOPS** Random: 240K IOPS**



* 6 months after launch

** Estimated
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Thank you!