



## **Unified Storage to Guard Your Business**



#### **Features**

- Dynamic storage solution optimized for virtualized environments
- Unified FC & iSCSI connections for SAN and/or NAS in the same storage
- Support for on demand expansion, ideal for today's growing data centers
- Advanced Storage Services included at no extra cost
- Designed to meet the growing challenge of unstructured data
- Enterprise design with cutting edge redundancy, reliability and high capacity
- Flexible 1/10Gbe and optional 8/16G FC, with 12G/6G SAS and 6G SATA backward compatible
- Fully tuned RAID expansion for video surveillance applications
- CacheGuard Data Protection & Predictive Data Migration (PDM) keep you safe
- Scale up to 208 hard disk drives via Vess J3000 series expansion units

## Agility, Reliability and Ultimate in Value

The Vess R3000 Series unified storage appliance consolidates both block and file protocols onto a single hardware platform, providing today's SMB IT operations with cost-effective ways to be flexible, meet performance goals while simplifying storage administration. High availability features design with active-active configuration, the Vess R3000 Series storage solutions can be used in data-intensive environments such as virtualized, cloud data centers or mid-size to large scale surveillance installations utilizing the VESS A Series products where no downtime is required. From Terabytes to Petabytes and beyond with support for on-demand expansion capability plus advanced storage services features bundled, the Vess R3000 Series offerings are the most cost-effective solutions that all SMB's can afford.

# Efficient, Intelligent and Highly Scalable for Your Business Needs

Future proof your storage investment, the Vess R3000 Series supports up to 208 hard drives with online expansion capability. Over-allocating of storage leveraging Thin-Provisioning feature helps take the worry out of planning and testing when additional capacity is required in the future. The included Read/Write Flash Cache Acceleration feature provides additional performance boost while lowering the latency. PROMISE intelligent data caching automatically promotes hot data to cache in real time, so you get the full benefit of flash performance. An additional layer of data protection with the use of the Snapshot feature aides with Point-in-Time content recovery when your business needs it most.

### **Simplifying Management and Support**

Simplicity and ease of use are absolutely crucial for SMBs with limited IT resources. The Vess R3000 is designed specially with SMBs in mind as it features One Plug Auto Service (OPAS) to reduce maintenance complexity and streamline an easier tech support workflow. Simply plug in a USB drive and the user can retrieve information about the system for tech support, upgrade firmware, reset passwords and much more. Embedded web storage management with intelligence Wizard technology helps reduce the learning curve for setup and configuring of the storage solution in your environment.

### Going the Extra Mile to Protect Your Data

The Vess R3000's new CacheGuard Data Protection features, Advanced Battery Flash Backup, go that extra mile to ensure your data is safe in case of power loss. Delivering protection of RAID controller write cache content beyond the standard 72-hour window, you can rest assured knowing your data is protected even when disaster strikes. Predictive Data Migration (PDM) proactive and predictive analytics keep your data safe with self healing technology.





## **Technical Specifications**

Models	Vess R3600iS*/	Vess R3600xiS*/	R3604fiS* /	Vess R3600tiS*/
*S: Single Controller / D: Dual Controller	R3600iD*	R3600xiD*	R3604FiD*	R3600tiD*
Drive Support	Up to 16 3.5" drives			
	• 6/12 Gb SAS, 6 Gb SATA HDD and SSD			
	Supports any mix of SAS and SATA drives simultaneously in the same enclosure			
Memory	8GB x 1 per ctrl (up to 64			
Host Connectivity per Ctrl	1x Quad port 1GbE	1x Quad port 1GbE 1x Dual port 10GbE SFP+	1x Quad port 1GbE 1 X Quad port 16GB FC	1x Quad port 1GbE 1x Dual port 10GBASE-T
Capacity/Expansion	Online Capacity/Volume	Expansion up-to 12 JBOD's, 208 I	Drivers	
Operational Features				
RAID Levels	0, 1, 5, 6, 10, 50, 60			
RAID Stripe Size Support	64K, 128K, 256K, 512K and 1MB			
Hot Spares	Global or dedicated with revertible option			
Max Volumes per System	Advance pool: 1024     Standard pool: 991			
Max Volumes per Pool	Advance pool: 256	<ul> <li>Standard pool: 31</li> </ul>		
Advanced Storage Features	Advanced Cache Mirroring over PCIe Gen3     I/O performance & power monitoring tools			
	LUN Masking and Mapping		USB Service Log     Date Service Line eventicity Second Cla	
		Asymmetric LUN Unit Access (ALUA)     Data Services': Thin-provision, Snapshot and C     PerfectFlash - Non-Disruptive Software Update		
		uptive software Opdate	De de martico de	
Background Activities	Media Patrol     Eoroground Initialization		Background Synchronization     Rebuild	
	Foreground Initialization		Disk SMART Polling	
	Redundancy Check     Feature rich task scheduler for background activities		UPS Monitoring	
PerfectRAID Features				1
	Predictive Data Migration (PDM)     NVRAM Error Logging     Intelligent Bad Sector Remapping     Disk Slot Power Control			
	SMART Error Handling			
SAN Protocol	• 8/16G FC ; Max 256 Ses	sions per port	• 1/10G iSCSI • May 102	4 Sessions per controller
Storage Expansion per Ctrl	1 x one 12Gb SAS Mini-S		• 1/ TOG ISCSI , Midx TOZ	4 Sessions per controller
Management per Ctrl	1 x RJ-45 1Gb Ethernet a	· · · ·		
GreenRAID Features		l power management disk drive (l	MAID) support • Efficient 8	0Plus Certified Power Supp
NAS Features <sup>1</sup>		,,,,,		
Supported Network Protocols	SMB/CIFS (Windows, MA	C), NFS (Linux/Unix), FTP, WebDA	V	
iviax. Share Disk	1024 per pool			
	1024 per pool 1PB			
Share Disk Size				
Share Disk Size Concurrent Sessions	1PB			
Share Disk Size Concurrent Sessions Max. Account	1PB 4096 10K	ry, LDAP, Apple Open Directory		
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account	1PB 4096 10K	ry, LDAP, Apple Open Directory		
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management	1PB 4096 10K Microsoft Active Director 100k	ry, LDAP, Apple Open Directory t, Quota Management, Online Exp	vansion	
Max. Share Disk Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management	1PB         4096         10K         Microsoft Active Director         100k         Permission Management	t, Quota Management, Online Exp		
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management <b>System Management</b>	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management	t, Quota Management, Online Exp nt using WebPAM PROe (Ethernet		d Line Interface (CLI)
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management     • Third Party Management	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner nt Support via SNMP	:) • Comman	
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management     • Third Party Management     Windows Server 2008, 20	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner nt Support via SNMP 012, 2016, OS X 10.x, RHEL 6.5, 6.6	:) • Comman	
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management     • Third Party Management	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner nt Support via SNMP 012, 2016, OS X 10.x, RHEL 6.5, 6.6	:) • Comman	
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management     • Third Party Management     Windows Server 2008, 20     VMware ESXi 6.7, Citrix S	t, Quota Management, Online Exp nt using WebPAM PROe (Ethernet nt Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4,	
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management     • Windows Server 2008, 20     VMware ESXi 6.7, Citrix S     CRPS 550W ; Efficiency 8	t, Quota Management, Online Exp nt using WebPAM PROe (Etherne nt Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4,	
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management     • Windows Server 2008, 20     VMware ESXi 6.7, Citrix S     CRPS 550W ; Efficiency 86     AC: 100-240VAC; DC: 180	t, Quota Management, Online Exp nt using WebPAM PROe (Etherne nt Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply	
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current	1PB     4096     10K     Microsoft Active Director     100k     Permission Management     • Web Based management     • Web Based management     • Third Party Management     Windows Server 2008, 20     VMware ESXi 6.7, Citrix S     CRPS 550W ; Efficiency 80     AC: 100-240VAC; DC: 180     < 8A@100-240VAC@clill	t, Quota Management, Online Exp nt using WebPAM PROe (Etherne nt Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply	
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         • Third Party Management         • Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         • CRPS 550W ; Efficiency 80         AC: 100-240VAC; DC: 180         < 8A@100-240VAC@full	t, Quota Management, Online Exp nt using WebPAM PROe (Etherne nt Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply	
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Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W ; Efficiency 8t         AC: 100-240VAC; DC: 180         < 8A@100-240VAC@full	t, Quota Management, Online Exp nt using WebPAM PROe (Etherne nt Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range	, and 12 SP1
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity Acoustic Noise Levels	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         • CRPS 550W ; Efficiency 8t         AC: 100-240VAC; DC: 180         < 8A@100-240VAC; DC: 180	t, Quota Management, Online Exp nt using WebPAM PROe (Etherne nt Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten Non-Operational: -40° to 60°C o (Non-Condensing), NonOperat	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range ional: ~ 95% (Non-Condensin	, and 12 SP1
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity Acoustic Noise Levels Shock	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W ; Efficiency 80         AC: 100-240VAC; DC: 180         < 8A@100-240VAC@clull	t, Quota Management, Online Exp nt using WebPAM PROe (Ethernein t Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten Non-Operational: -40° to 60°C o (Non-Condensing), NonOperat uration, Non-Operational: 30G, 1	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range ional: ~ 95% (Non-Condensin Ims duration	, and 12 SP1
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Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity Acoustic Noise Levels Shock Vibration	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W; Efficiency 8t         AC: 100-240VAC; DC: 18C         < 8A@100-240VAC@clull	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner t Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten von-Operational: -40° to 60°C o (Non-Condensing), NonOperat uration, Non-Operational: 30G, 1' D0Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 2.256G, 5-80	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range ional: ~ 95% (Non-Condensin Ims duration I-500Hz (Random) ,	, and 12 SP1
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity Acoustic Noise Levels Shock Vibration Safety and Emission Certification	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W; Efficiency 8t         AC: 100-240VAC; DC: 18C         < 8A@100-240VAC@full	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner t Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten von-Operational: -40° to 60°C o (Non-Condensing), NonOperat uration, Non-Operational: 30G, 1' D0Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 2.256G, 5-80	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range ional: ~ 95% (Non-Condensin Ims duration I-500Hz (Random) ,	, and 12 SP1
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity Acoustic Noise Levels Shock Vibration Safety and Emission Certification Environmental Standards	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W ; Efficiency 8t         AC: 100-240VAC; DC: 18t         < 8A@100-240VAC; DC: 18t	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner t Support via SNMP D12, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows DPLUS Certified Redundant Powe D-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten von-Operational: -40° to 60°C o (Non-Condensing), NonOperat uration, Non-Operational: 30G, 1' D0Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 2.256G, 5-80	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range ional: ~ 95% (Non-Condensin Ims duration I-500Hz (Random) ,	, and 12 SP1
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W ; Efficiency 8t         AC: 100-240VAC; DC: 18t         < 8A@100-240VAC; DC: 18t	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner nt Support via SNMP 112, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows 0PLUS Certified Redundant Powe 0-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten Non-Operational: -40° to 60°C (Non-Condensing), NonOperat uration, Non-Operational: 30G, 1° 00Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 2.256G, 5-80 CI, BSMI, RCM	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range ional: ~ 95% (Non-Condensin Ims duration I-500Hz (Random) ,	, and 12 SP1
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity Acoustic Noise Levels Shock Vibration Safety and Emission Certification Environmental Standards Dimensions (H x W x D)	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W ; Efficiency 8t         AC: 100-240VAC; DC: 18t         < 8A@100-240VAC; DC: 18t	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner nt Support via SNMP 112, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows 0PLUS Certified Redundant Powe 0-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten Non-Operational: -40° to 60°C (Non-Condensing), NonOperat uration, Non-Operational: 30G, 1° 00Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 2.256G, 5-80 CI, BSMI, RCM	:) • Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d nperature Range ional: ~ 95% (Non-Condensin Ims duration I-500Hz (Random) ,	, and 12 SP1
Share Disk Size Concurrent Sessions Max. Account Supported Domain Max. Domain Account Data Management System Management Management Interfaces Supported OSs Software Certification Mechanical Specifications Power Supply Voltage Current Power Conversion Efficiency Temperature Range Humidity Acoustic Noise Levels Shock Vibration Safety and Emission Certification Environmental Standards Dimensions (H x W x D) Warranty and Support	1PB         4096         10K         Microsoft Active Director         100k         Permission Management         • Web Based management         • Third Party Management         Windows Server 2008, 20         VMware ESXi 6.7, Citrix S         CRPS 550W; Efficiency 86         AC: 100-240VAC; DC: 180         < 8A@100-240VAC; Full	t, Quota Management, Online Exp nt using WebPAM PROe (Etherner nt Support via SNMP 112, 2016, OS X 10.x, RHEL 6.5, 6.6 erver 7.4, Windows 0PLUS Certified Redundant Powe 0-320VDC Auto-Ranging load; < 8A@180-320VDC@full load d), >80% @ 240V (>20% load) Ten Non-Operational: -40° to 60°C (Non-Condensing), NonOperat uration, Non-Operational: 30G, 1° 00Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 0.41G, 3-10-200 o 500Hz (sine wave) ; 2.256G, 5-80 CI, BSMI, RCM	c) Comman , 6.7, and 7.2, SLES 11, 11 SP4, r Supply d inperature Range ional: ~ 95% (Non-Condensin Ims duration -500Hz (Random) , -350-500Hz (Random)	and 12 SP1

Note:

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<sup>1</sup> 32GB DRAM is required for NAS Feature and Data Services.



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