West Virginia Purchasing Division

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The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

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Procurement | Budgeting | Accounts Receivable | Accounts Payable

Welcome, Christopher W Seckman

Solicitation Response(SR) | Dept: 1400 | ID: ESR06032500000007434 | Ver.: 1 | Function: New | Phase: Final | Modified by batch , 06/03/2025

Header | 1

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder:	1682980
Procurement Type:	Central Purchase Order
Vendor ID:	VS0000022620
Legal Name:	COMPUGOV INC
Alias/DBA:	
Total Bid:	$43,306.25
Response Date:	06/03/2025
Response Time:	12:23
Responded By User ID:	CompuGov
First Name:	Wayne
Last Name:	Hwang
Email:	wayne@compugov.com
Phone:	8054035984

SO Doc Code:	CRFQ
SO Dept:	1400
SO Doc ID:	AGR2500000022
Published Date:	5/22/25
Close Date:	6/3/25
Close Time:	13:30
Status:	Closed
Solicitation Description:	Dell Powerstore 500t or Equal
Total of Header Attachments:	1
Total of All Attachments:	1

Proc Folder:	1682980
Solicitation Description:	Dell Powerstore 500t or Equal
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2025-06-03 13:30	SR 1400 ESR06032500000007434	1

VENDOR
VS0000022620 COMPUGOV INC

Solicitation Number:	CRFQ 1400 AGR2500000022				
Total Bid:	43306.25	**Response Date:**	2025-06-03	**Response Time:**	12:23:08
Comments:					

FOR INFORMATION CONTACT THE BUYER
Larry D McDonnell
304-558-2063
larry.d.mcdonnell@wv.gov

Vendor
Signature X   **FEIN#**   **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Dell Powerstore 500t or Equal	1.00000	EA	43306.250000	43306.25

Comm Code	Manufacturer	Specification	Model #
43210000			

Commodity Line Comments: See attached quote for equivalent storage system by Infortrend.

Extended Description:

Please see 3.1.1 in Specifications
See attached documentation for further details.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Dell Pro Support 24/7 ProSupport or equal	1.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43210000			

Commodity Line Comments: See attached quote for equivalent storage system by Infortrend. Included in Line Number 1.

Extended Description:

Please see section 3.1.1.11 in Specifications
See attached documentation for further details.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Dell Pro Support Next Business Day on-site service or Equal	1.00000	EA	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
43210000			

Commodity Line Comments: See attached quote for equivalent storage system by Infortrend. Included in Line Number 1.

Extended Description:

Please see 3.1.1.12 in Specifications
See attached documentation for further details.

Quotation

DATE 6/3/2025
Quote # WH1635
Valid Until: 7/3/2025
Account Rep: Wayne Hwang
wayne@compugov.com

CompuGov
10 Peppertree
Aliso Viejo, CA 92656
Phone (949) 204-0886

CompuGov is a SBA Certified Small Disadvantaged Business (SDB)

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Purchasing Division
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larry.d.mcdonnell@wv.gov

Fed Tax ID: 26-2001071
DUNS: 962404500
Cage Code: 868R0
SAM Unique Entity ID: KPTHL6ASXP47
CA Small Business Certification: 1327880

Version	Quote for RFQ #:	FOB	Terms	Delivery
1	SR-1400-ESR06032500000007433	Dest.	Net 30	60 Days ARO

Part Number	DESCRIPTION	Qty	Price	AMOUNT
				-
System	**Infortrend EonStor GS 4024UR 2U/24bay NVMe All-Flash cloud-integrated unified storage array, supports NAS, SAN, object protocol and cloud gateway**			
Controllers	Dual redundant controller subsystem including 4x host board slots			
Controllers	Dual redundant controller subsystem including 4x host board slots			
Expansion Ports	4x JBOF expansion ports			
CPU	Intel® Xeon® D 6-Core			
Cache Memory	192GB (6x32GB) memory			
Power Supply / Fan Modules	2x Power Supply+Fan module			
SuperCap / Flash	2x Super capacitor + fl ash module			
Host Boards	2x EonStor host board with 4 x 25Gb/s Ethernet ports (SFP28), type 2			
Drives	16x 3.84TB U.3 NVMe SSD, PCIe Gen4 Enterprise SSD, 1 DWPD			
Transceivers	8x 25GbE SFP28 optical transceiver, LC, wave-length 850nm, multi-mode			
Standard Warranty	3-year limited hardware warranty and 8 x 5 phone, web, and email support			
Warranty Extension	2-Year Warranty Extension limited hardware warranty and 8 x 5 phone, web, and email support			
Warranty Upgrade	Advanced service: Phone, web, and email support + onsite diagnostics on the next business day			
TOTAL	**Infortrend EonStor GS 4024UR 2U/24bay NVMe All-Flash cloud-integrated unified storage array** - Fully Configured and Tested - TAA Compliant, Assembled in USA	1	43,306.25	43,306.25
	Proposed solution is equal to Dell Powerstore 500t **Spec Sheet is attached**			

	FREE Shipping is included			

CompuGov is a Small Disadvantaged Business.

Ordering/Remit to address:

   CompuGov

   10 Peppertree

   Aliso Viejo, CA 92656

CompuGov RMA Policy:

Please carefully check your order upon delivery. CompuGov can only accept RMAs without restocking fee for order errors, and only for 30 days after delivery.

RMA's for reasons of customer choice must be approved before returns are accepted, and may be subject to a minimum 25% restocking fee.

SUBTOTAL	$ 43,306.25
TAX RATE	0.00%
SALES TAX	-
TOTAL	$ 43,306.25

EonStor GS U.2 NVMe Hybrid Flash Storage

Scale-out Unified Storage with High Availability for Enterprises

Highlights

Extreme Performance

- Up to 1.3M end-to-end IOPS to accelerate storage operations
- Massive sequential throughput of up to 50GB/s

Cost-Effective Storage

- U.2 NVMe SSD to deliver better performance at lower costs
- QLC SSD support for higher capacity at reduced costs
- Automated storage tiering to fully utilize SSD and HDD

Flexible Scalability

- Scale-out and scale-up expansions to easily expand performance and capacity to more than 70PB

Easy to Use and Manage

- Single namespace for easier data access
- Auto-balancing to reduce the burden of storage management for IT staff

Nondisruptive Operations

- HA service ensures non-stop operations with a near-zero RTO (recovery time objective) by deploying two storage devices to provide services from two separate sites.

Introduction

EonStor GS U.2 NVMe hybrid flash storage is a high performance storage solution for enterprises. Equipped with U.2 NVMe SSD, it provides higher IOPS and throughput and is more cost-effective. GS U.2 is a unified storage that supports both SAN and NAS services. With block-level and file-level scale-out support, it can linearly increase performance and capacity. Complete data protection allows IT staff to focus on higher value projects. It is a perfect fit for such applications as AI, HPC, M&E, virtualization, and database.

End-to-End High Performance with U.2 NVMe SSD

The most high-end model, GS 5000U, features 200GbE connectivity with RDMA and NVMe over Fabrics (NVMe-oF), achieving up to 50GB/s read throughput and 1.3M IOPS on a single appliance.

Cost-Effectiveness and High Storage Efficiency

U.2 NVMe SSD is becoming mainstream in the market as it combines the advantages of SAS and SATA SSDs, allowing enterprises to enjoy higher performance at a competitive price.

With significant improvement in performance and durability in recent years, quad-level cell (QLC) SSDs have become a compelling option for applications requiring high capacity and flash-level performance. QLC SSDs offer 33% more storage capacity per cell compared to triple-level cell (TLC) SSDs, all while costing less. EonStor GS U.2 NVMe storage supports QLC SSDs to provide greater flexibility, catering to a wide range of enterprise applications and requirements.

EonStor GS U.2 NVMe storage supports hybrid storage, and with automated storage tiering, the storage system can automatically leverage the high throughput and low latency of U.2 NVMe SSDs for frequently accessed data, while using HDDs on expansion enclosures as data backup media, thereby boosting system performance at a reduced total cost of ownership.

The storage solution also comes with data compression and offline deduplication, which reduces the storage capacity required and thus saves storage costs. The compression feature greatly reduces the data size and the transfer time. To deal with repeated files saved by manual backups or archiving, offline deduplication helps you automatically remove duplicate data from an appliance or a cluster to free up storage space.

Flexible Scalability with Scale-out and Scale-up

Through scale-out expansion, you can linearly increase performance and capacity for both block-level and file-level environments. When one storage appliance is no longer able to provide enough performance or capacity, you can simply add more appliances to form a cluster—with a maximum of 4 appliances.

Through scale-up expansion, each storage appliance can be connected to JBOD expansion enclosures to add up to 896 drives. Together with scale-out expansion, EonStor GS U.2 NVMe storage supports more than 3000 drives in total.

Easy Data Access for Users and Simple IT Management

Users can access shared folders in a single root directory under a single namespace, without having to worry about where the data is stored. Auto-balancing is also supported to achieve load balancing, which relieves the burden of manual planning and configuration for IT personnel.

Smart Management of SSD

EonStor GS U.2 NVMe storage uses an intelligent algorithm to handle data writes and optimize SSD usage. The algorithm not only extends SSD lifespan by reducing the total amount of writes on an SSD but also prevents multiple SSDs from failing at the time and causing data loss. Moreover, as EonStor GS U.2 NVMe storage monitors SSD status in real time, it estimates the remaining lifespan of each SSD and sends the administrator a reminder to replace the SSD that is about to fail.

Complete Data Protection and Backup

EonStor GS U.2 NVMe offers various data protection mechanisms to guarantee data safety. First, Infortrend's unique RAID technology ensures your data remains intact even in case of a drive failure. With snapshot, a flexible backup tool, you can back up local resources on a storage system by schedule, including volumes and shared folders, and roll back to a previous version when needed. For further protection, you can back up data to a remote GS appliance using the remote replication feature, or to a public cloud with EonCloud Gateway.

Immutable object storage, another crucial feature for data protection, safeguards data against ransomware attacks. It retains data with WORM (write once read many) storage protection, where data gets "locked" and therefore cannot be modified, deleted, overwritten, or even encrypted by ransomware. By setting a retention period, you can easily follow government compliance requirements or company policies on data retention.

For companies requiring an easy-to-use and reliable storage solution for file backup, EonStor GS U.2 NVMe storage can be utilized as a backup appliance, allowing you to leverage its backup server function to back up data from PC, file servers, and public cloud through a GUI interface. Additionally, you can set options such as a backup schedule and a retention period to best fit your needs.

New Level of High Availability

From power supplies, cooling fans, controllers, to host boards, the modular design of all these hardware components lowers maintenance complexity and provides fast, precise technical support and RMA services, keeping EonStor GS U.2 NVMe storage safe from any downtime to maintain nonstop services, increase productivity, and enhance competitiveness.

In addition, EonStor GS U.2 NVMe storage offers HA service to deliver continuous availability with a near-zero RTO (recovery time objective) and a zero RPO (recovery point objective). With two storage devices deployed at near sites, the HA service provides block-level active-active storage and file-level active-passive storage for business-critical applications that have an extremely low tolerance for downtime. Featuring synchronous remote replication and auto-failover, this solution ensures identical and complete copies of data are stored on both storage devices and avoids service downtime due to planned or unexpected events. Auto-failback is available in block-level HA service, allowing a storage device to resume services without switching manually.

Intuitive Management Software

GS U.2 NVMe storage adopts EonOne, a web-based management software tool, to assist customers in raising storage and service efficiency for increased productivity. With its intuitive interface design, IT administrators can easily manage a cluster and multiple appliances, monitor performance and capacity usage, and complete system configurations, all from one centralized interface.

PHYSICAL SPECIFICATIONS

Product Series		GS 2000U	GS 3000U	GS 3000UT	GS 4000U	GS 5000U
Form Factor	2U 24-bay	GS 2024**UR**	GS 3024**UR**	GS 3024**URT**	GS 4024**UR**	GS 5024**URE**
	4U 48-bay	-	-	GS 3048**URT**	GS 4048**UR**	-
	Note: U: NVMe storage **R**: Dual redundant controllers **T**: High performance					
Controller		Dual redundant				
Cache Backup Technology		Super capacitor + flash module				
CPU		Intel® Xeon® D 2-Core	Intel® Xeon® D 4-Core	Intel® Xeon® D 4-Core	Intel® Xeon® D 6-Core	Intel® Xeon® Scalable 12-Core
Cache Memory		Default DDR4 16GB, up to 128GB		Default DDR4 48GB, up to 384GB		Default DDR5 128GB, up to 1024GB
Supported Drives		2.5" U.2 NVMe SSD (must be purchased from Infortrend)				
Max. Drive Number	Via Expansion Enclosures, per Appliance	896				
	Via Scale-out with Other Series of Appliances, per Cluster	3584				
Max. SSD Cache Pool (Block Level)		4TB				
Onboard 10GbE Ports (SFP+)		0	4	0	0	0
Onboard 25GbE Ports (SFP28)		0	0	4	0	0
	Note: All the ports must be set to the same channel type (block-level or file-level).					
Onboard JBOF Expansion Ports		GS 3024**URT**: 4, GS 4024**UR**: 4				
Host Board Slots		4	4	4	4	6
Host Board Options		• 16Gb/s FC x 4 • 32Gb/s FC x 2 • 32Gb/s FC x 4 • 10GbE (SFP+) x 2 • 25GbE (SFP28) x 2 • 25GbE (SFP28) x 4 • 12Gb/s SAS x 2		• 16Gb/s FC x 4 • 32Gb/s FC x 2 • 32Gb/s FC x 4 • 10GbE (SFP+) x 2 • 25GbE (SFP28) x 2 • 25GbE (SFP28) x 4 • 100GbE (QSFP28) x 1, RDMA • 100GbE (QSFP28) x 2, RDMA • 12Gb/s SAS x 2		• 32Gb/s FC x 4 • 25GbE (SFP28) x2 • 25GbE (SFP28) x4 • 100GbE (QSFP28) x 1, RDMA • 100GbE (QSFP56) x 2, RDMA • 200GbE (QSFP56) x 1, RDMA • 12Gb/s SAS x 2
	Note: 1. One 100GbE x 2 host board delivers a maximum throughput of 100Gb/s for GS 3000**UT** and GS 4000**U** models. 2. It is strongly recommended that you refer to the latest Host Board and Memory Guide on our website for complete information, including supported combinations and important notes, before purchasing any host board for your model.					
Max. 16Gb/s FC Ports		16	16	16	16	0
Max. 32Gb/s FC Ports		16	16	16	16	24
Max. 10GbE Ports (SFP+)		8	12	8	8	0
Max. 25GbE Ports (SFP28)		16	16	20	16	24
Max. 100GbE Ports (QSFP28)		0	0	8	8	6
Max. 100GbE Ports (QSFP56)		0	0	0	0	12
Max. 200GbE Ports (QSFP56)		0	0	0	0	6
Max. 12Gb/s SAS Ports		8	8	8	8	12
Expansion Enclosures		JB 4024**U**, JB 3012**A**, JB 3016**A**, JB 3024**BA**, JB 3025**BA**, JB 3060**L**, JB 3090				
	Note: JB 4024**U** is supported only for GS 3024**URT**, GS 4024**UR**, and GS 5024**URE**.					
Dimensions (Without Chassis Ears and Protrusions) (W x H x D)		449 x 88 x 500 mm		• 2U 24-bay: 449 x 88 x 530 mm • 4U 48-bay: 449 x 176 x 530 mm		449 x 88 x 830 mm
Package Dimensions (W x H x D)		• 2U 24-bay: 588 x 239 x 780 mm • 4U 48-bay: 588 x 423 x 780 mm				594 x 235 x 1106 mm
Power Supply Unit	Power Supplies (Redundant and Hot-swappable) — Global	• 2U 24-bay: 530W x 2 (80 PLUS Bronze) • 4U 48-bay: 1300W x 2 (80 PLUS Titanium)				1600W x 2 (80 PLUS Titanium)
	Power Supplies (Redundant and Hot-swappable) — EU	• 2U 24-bay: 800W x 2 (80 PLUS Titanium) • 4U 48-bay: 1300W x 2 (80 PLUS Titanium)				
	AC Voltage — Global	• 2U 24-bay: 100-240VAC @10-5A • 4U 48-bay: 100-127VAC @12A, 200-240VAC @8.5A				100-127VAC @12A, 200-240VAC @10A
	AC Voltage — EU	• 2U 24-bay: 100-127VAC @10A, 200-240VAC @5A • 4U 48-bay: 100-127VAC @12A, 200-240VAC @8.5A				
	Frequency	50-60 Hz				
Safety Standards		• Electromagnetic compatibility: CE, BSMI, FCC				

SOFTWARE SPECIFICATIONS

Max. Logical Drive Number	30	
Max. Logical Drive Capacity	512TB	
Stripe Size	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, 1024KB (per logical drive)	
Write Policy	Write-back or write-through (per logical drive)	
Max. Pool Size	2PB	
Max. Pool Number	30	
Max. Volume Size	2PB	
Max. Volume Number	1024	
Max. Host LUN Mapping Number	4096	
Max. Reserved Tag Number	256 (per Host-LUN connection)	
Max. iSCSI Initiators	832	
Max. Host Connection Number	128 (per FC)	
RAID Options	RAID 0, RAID 1, RAID 3, RAID 5/5F, RAID 6/6F, RAID 10, RAID 30, RAID 50, RAID 60	
Supported Protocols	File Level	CIFS/SMB (version 2.0/3.0), NFS (version 2/3/4), AFP (version 3.1.12), FTP/FXP (vsftp 2.3.4), WebDAV (httpd package 2.4.6)
	Block Level	FC, iSCSI, SAS
	Object Level	RESTful API
File Level	Max. File System Size	2PB
	Max. Number of User Accounts	20000
	Max. Number of User Groups	512
	Max. Number of Shared Folders	2048 (NFS/CIFS/FTP) | 255 (AFP)
	Max. Number of Rsync Jobs	1024
	Max. Number of Concurrent Rsync Processes	64
	Max. Number of Connections	2048 (NFS/CIFS/AFP) | 1024 (FTP)

Management	• Web-based EonOne management software • User account management • Group management • Folder management - folder access control • Quota management • Folder encryption with AES • Integration with Microsoft Active Directory (AD) and Linux LDAP • Storage Resource Management to analyze history of resource usage • Multi-factor authentication login mechanism • File-level QoS (network traffic control) • SMI-S standard interface for hypervisor management applications
Availability and Reliability	• Immutable object storage • Hot-swappable hardware modules • Device mapper • Antivirus • Trunk group • Cache safe technology • UPS • WORM (file level only) • SMB Multichannel
Efficiency	• Inline compression • Offline deduplication
Notification	• Email • SNMP traps
Applications	• Anti-virus • Backup Server • Docker • LDAP Server • Mail Server • Nextcloud • Project Server • Proxy Server • Syslog Server • VPN Server • Web Server
Supported Cloud Services	EonCloud Gateway supports integration with the following cloud providers: Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack, Baidu Cloud, Google Cloud, Tencent Cloud, Wasabi Cloud, etc. **Note:** For complete information about supported cloud providers, please refer to EonCloud Gateway webpage https://www.infortrend.com/global/solutions/eoncloud
Supported OS	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, MacOS X, VMware **Note:** For supported OS versions, please refer to the Compatibility Guide.

DATA SERVICES

Thin Provisioning	Block Level	Default	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space.	
Local Replication	Snapshot	File Level	Optional	Snapshot images per folder: 1024	
		Block Level	Default	Snapshot images per source volume: 64	Snapshot images per system: 128
			Optional	Snapshot images per source volume: 256	Snapshot images per system: 4096
	Volume Copy/Mirror		Default	Replication pairs per source volume: 4	Replication pairs per system: 16
			Optional	Replication pairs per source volume: 8	Replication pairs per system: 256
Remote Replication	File Level	Default	Support Rsync with 128-bit SSH encryption	
	Block Level	Optional	Replication pairs per source volume: 8	Replication pairs per system: 64
			Note: The maximum number of replication pairs per source volume is 8, whether they are remote asynchronous pairs, remote synchronous pairs, or local volume pairs	
Automated Storage Tiering		Optional	Storage tiers per pool: 4	
Scale-out	File Level	Default	Appliances per cluster: 1	
		Optional	Appliances per cluster: 4	
	Block Level	Default	Appliances per cluster: 4	
HA Service	File Level	Optional	Delivering continuous availability and eliminating downtime for mission-critical workloads that require non-stop operations	
	Block Level		**Note:** HA Service is not available on GS 2000**U**.	
SSD Cache	File Level	Optional	Accelerating file operations and data access performance for both read and write Max. SSD number: 8	
	Block Level	Optional	Accelerating data access in random read-intensive environments (e.g. OLTP) Max. SSD number: 4	
			Recommended DIMM capacity per controller for SSD cache pool	
			DRAM : 8GB Max SSD cache pool size : 0.5TB	
			DRAM : 16GB Max SSD cache pool size : 1TB	
			DRAM : 32GB Max SSD cache pool size : 2TB	
			DRAM : 64GB and up Max SSD cache pool size : 4TB	

WARRANTY AND SERVICE

Service and Support	Standard Service	3-year limited hardware warranty and 8 x 5 phone, web, and email support (batteries are covered under warranty for 2 years)
	Upgrade or Extension Options	Warranty extension: Standard service can be extended up to 5 years. The following services can be upgraded to 5 years. • Upgrade: Replacement part dispatch on the next business day • Advanced service: Phone, web, and email support + onsite diagnostics on the next business day • Premium service: Phone, web, and email support + onsite diagnostics within 4 hours
		Note: Options may vary by region. For more details, please contact our sales representatives.
	Technical Support	Get information on system installation and maintenance, download technical documents and software, or issue a support ticket
	Product Services	Register products, download firmware, apply for licensing services, create product repair tickets, or check product repair status