



STAFF REPORT

Report To: Board of Supervisors

Meeting Date: March 4, 2021

Staff Contact: Carol Akers, Purchasing & Contracts Administrator and James Underwood, Chief Information Officer

Agenda Title: For Possible Action: Discussion and possible action regarding authorization to purchase network equipment from Thinkmate, for a not to exceed amount of \$87,507. (Carol Akers, CAkers@carson.org and James Underwood, JUnderwood@carson.org)

Staff Summary: This purchase will provide for two data storage units with approximately 500 Terabytes (TB) of capacity each, expandable to approximately 800TB each. Staff expects these to supply anticipated video data storage needs for both the Jail Video Surveillance Project and General Video Surveillance Project over the next three years including failover for the jail. Expansion capabilities for this hardware extends that three-year expectation to five years.

Agenda Action: Formal Action / Motion

Time Requested: 5 minutes

Proposed Motion

I move to approve the purchases as requested.

Board's Strategic Goal

Efficient Government

Previous Action

None

Background/Issues & Analysis

These two storage units will support the City's Jail Video Surveillance Project and General Video Surveillance Project.

One unit will be dedicated solely to the Jail Video Surveillance Project and located in the jail. The other unit's capacity will be shared between the City's Public Works and Information Technology Departments.

The overall costs of this purchase are being shared by the Sheriff's Department, Public Works Department, and Information Technology Department based on anticipated usage.

This contract is not adapted to competitive bidding pursuant to NRS 332.115 subsection 1 (g) and (s).

Applicable Statute, Code, Policy, Rule or Regulation

NRS 332.115(1)(g), (s)

Financial Information

Is there a fiscal impact? Yes

If yes, account name/number: Sheriff SCAAPS: G200520006 grant
Sheriff Capital Projects Fund Misc. Equipment/Fixtures: 2102020-506512
Public Works Streets: 2563038-507774
Public Works Wastewater: 5103201-500676
Public Works Water: 5203502-500676
Public Works Fleet: 5603025-500625
Public Works Landfill: 1013904-500625
JAC: P302620001
Information Technology: Software Maintenance Cost 1010710-500433

Is it currently budgeted? Yes

Explanation of Fiscal Impact: If approved the following accounts will be reduced by the following not to exceed amounts:

Sheriff SCAAPS G200520006 Grant, \$30,253.00
Sheriff Capital Projects Fund Misc. Equipment/Fixtures, 2102020-506512, \$12,072.30
Public Works Streets, 2563038-507774, \$16,250.00
Public Works Wastewater, 5103201-500676, \$2,500.00
Public Works Water, 5203502-500676, \$2,500.00
Public Works Fleet, 5603025-500625, \$1,250.00
Public Works Landfill, 1013904-500625, \$1,250.00
JAC, P302620001, \$1,250.00
Information Technology Software Maintenance Cost, \$20,181.70

Alternatives

Do not approve the purchase and provide alternative direction to staff.

Attachments:

[Video Storage and related projects.pdf](#)

[Thinkmate Quote.pdf](#)

Board Action Taken:

Motion: _____	1) _____	Aye/Nay
	2) _____	_____

(Vote Recorded By)

Jail Video Surveillance Project Costs

Item	Qty	Cost Each	Line Total	Vendor
Cameras and install	1	\$ 132,612	\$ 132,612	Desert Hills
Network switch	4	\$ 7,362	\$ 29,447	ConvergeOne
GPU Server	2	\$ 9,699	\$ 19,398	Dell
Storage 500TB	1	\$ 42,869	\$ 42,869	Thinkmate
PCs, monitors, etc. for video monitoring	1	\$ 20,000	\$ 20,000	Dell
Per-camera licenses	89	\$ 191	\$ 17,015	EyeP Solutions
Per-camera failover licenses	89	\$ 18	\$ 1,566	EyeP Solutions
Per-camera license annual technical support and upgrade	89	\$ 38	\$ 3,403	EyeP Solutions
Equipment Rack	1	\$ 1,000	\$ 1,000	CDW-G
			\$ 267,310	

Jail Video Surveillance	Project Expense	Available Budget
Sheriff FY2020 CIP - Detention Digital Camera Upgrade: 2102020-500661	\$ 10,400	\$ 10,400
Sheriff FY2020 CIP - Detention Digital Camara Upgrade: 2102020-506512	\$ 159,747	159,747
Sheriff SCAAPS G200520006 grant	\$ 30,253	71,644
IT SW Maintenance: Move from 1010710-500433 into 1010710-507775	\$ 66,910	171,754
	\$ 267,310	\$ 413,545

1st Floor IDF Courthouse Project Costs

Item	Qty	Cost Each	Line Total	Vendor
Cabling - fiberoptic and Ethernet	1	\$ 30,745	\$ 30,745	Conway
Transformer and 100A breaker panel	1	\$ 4,000	\$ 4,000	CC Facilities
Equipment Rack	1	\$ 1,000	\$ 1,000	CDW-G
			\$ 35,745	

1st Floor IDF Courthouse	Project Budget	Available Budget
Justice Court Restricted Fund: 1014710-500811	\$ 7,500	\$ 107,931
District Court Restricted Fund: 1014710-500878	\$ 7,500	107,658
Clerk/Recorder Restricted Funds: 1010213-500620	\$ 18,000	126,292
IT SW Maintenance: Move from 1010710-500433 into 1010710-507775	\$ 2,745	171,754
	\$ 35,745	\$ 513,635.00

General Video Surveillance Project Costs

Item	Qty	Cost Each	Line Total	Vendor
GPU Server	2	\$9,699.11	\$19,398.22	Dell
Storage 500TB	1	\$42,869.00	\$42,869.00	Thinkmate
			\$ 62,267	

General Video Surveillance	Project Budget	Available Budget
Streets: 2563038-507774	\$ 34,699.11	\$ 130,992.00
Wastewater: 5103201-500676	\$ 2,500.00	\$ 6,515.00
Water: 5203502-500625	\$ 2,500.00	\$ 26,267.00
Fleet: 5603025-500625	\$ 1,250.00	\$ 8,301.00
Landfill: 1013904-500625	\$ 1,250.00	\$ 61,897.00
JAC: P302620001	\$ 1,250.00	\$ 1,928.00
IT SW Maintenance: Move from 1010710-500433 into 1010710-507775	\$ 18,818.11	\$ 171,754.00
	\$ 62,267	\$ 407,654.00

THINKMATE

232 Vanderbilt Ave, Norwood , MA 02062
 Phone: 1-800-371-1212 Fax: 1-781-762-6014

QUOTATION

Quote # **210202-26B**
 Date **02/02/2021**
 Expires **02/17/2021**

Billing Information	Shipping Information	Account Manager
Carson City Nevada 201 N Carson St STE #7 Carson City, NV 89701 tsaylor@carson.org 7752837010	Carson City Nevada 201 N Carson St STE #7 Carson City, NV 89701 Ship Via: FedEx Economy Freight	Jon Breen jon.breen@thinkmate.com 800-371-1212

SKU	Description	Unit Price	Qty	Ext. Price
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Supermicro SuperStorage Server 6049SP-E1CR90



4U

DDR4

SATA
6Gb/s

SAS3
12Gb/s

NVMe



SuperStorage Server 6049SP-E1CR90	\$42,869.00	2	\$85,738.00
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- Supermicro Storage Server 6049SP-E1CR90 - 90x SAS/SATA3 - Dual Broadcom 3616/3916 12G SAS - Dual 10-GbE - 2000W 1+1 Redundant
- 2 x Intel Xeon Silver 4208 Processor 8-Core 2.1GHz 11MB Cache (85W)
- 16 x 16GB PC4-25600 3200MHz DDR4 ECC RDIMM
- 2 x 512GB Micron 1300 2.5" SATA 6.0Gb/s Solid State Drive
- 2 x 375GB Intel Optane SSD DC P4800X Series U.2 PCIe 3.0 x4 NVMe Solid State Drive
- 58 x 18TB SAS 3.0 12.0Gb/s 7200RPM - 3.5" - Ultrastar DC HC550 (512e/4Kn)
- Supermicro Add-on Module 3616 (IT mode)
- 2 x Intel 10/25-Gigabit Ethernet Converged Network Adapter XXV710-DA2 (2x SFP28)
- Supermicro AOM-TPM-9670H - Trusted Platform Module - TPM 2.0 - X11 MBs - Not Provisioned - Horizontal
- 2 x AC Power Cord (North America), C13, NEMA 5-15P, 2.1m CAB-AC
- Supermicro NVMe Kit / 2U 4-Slot SFF BPN, 4x 2.5" thin profile NVMe drive trays, cables
- Supermicro Server Manager (SSM) (DataCenter Management Package)
- No Operating System
- 5 Year Advanced Parts Replacement Warranty and NBD Onsite Service (Zone 0)

Barebone	
Memory Technology	DDR4 ECC Reg
Chipset	Intel C621
Form Factor	4U
Color	Black
Memory Slots	16x 288-pin DIMM Sockets
Graphics	ASPEED AST2500 BMC
Ethernet	Dual 10GBase-T LAN ports via Intel X550
Power	2000W Redundant Power Supplies with PMBus
External Bays	90x 3.5"/2.5" Hot-swap SAS3/SATA3
Internal Bays	2x 2.5" internal fixed slim SATA SSD
M.2	2x NVMe M.2 (form factor: 22110)
Expansion Slots	2 PCI-E 3.0 x16 (HHHL) slots 1 PCI-E 3.0 x8 (HHHL) slot
Front Panel	Power On/Off button System Reset button Power status LED Hard drive activity LED Network activity LEDs System Overheat LED Power fail LED
Dimensions (WxHxD)	17.68" (449mm) x 6.96" (177mm) x 42.9" (1091mm)
Hard Drive	
Storage Capacity	18.0TB

Interface	12.0Gb/s SAS
Rotational Speed	7200RPM
Cache	512MB
Format	512e/4Kn
Memory	
Technology	DDR4
Type	288-pin DIMM
Capacity	16 GB
Speed	3200 MHz
Error Checking	ECC
Signal Processing	Registered
Networking	
Speed	25/10 Gb Ethernet
Connector	SFP28
Interface	PCIe v3.0 (8.0 GT/s)
Cable Medium	Copper
TX/RX Streams	Tx/Rx IP
Processor	
Product Line	Xeon Scalable 2nd Gen
Socket	LGA3647
Clock Speed	2.10 GHz
Cores/Threads	8C / 16T
Intel Virtualization Technology	Yes
Intel Hyper-Threading	Yes
Wattage	85W
Solid State Drive	
Storage Capacity	512GB 375GB
Interface	6.0Gb/s Serial ATA PCIe 3.0 x4 NVMe
Read IOPS	90,000 IOPS 55,000 IOPS
Write IOPS	87,000 IOPS 50,000 IOPS
Read Speed	530 MB/s 2400 MB/s
Write Speed	520 MB/s 2000 MB/s
NAND	Micron 3D TLC NAND 20nm, 3D XPoint
Endurance	30x DWPD

Sub Total:	\$85,738.00
FedEx Economy Freight Freight:	\$1,769.00
Quote Total:	\$87,507.00