

INFORMATION TECHNOLOGY

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www.scottcountyiowa.com



July 22, 2014

To: Dee F. Bruemmer, County Administrator
From: Matt Hirst, Information Technology Director
Subject: Approval of Server and Storage Acquisition

Scott County Information Technology has received bids for blade server and Storage Area Network (SAN) hardware for a Scott County and SECC infrastructure upgrade project. The cost for this Cisco hardware and professional setup services from Cisco Systems and Alexander Open Systems (AOS) is \$547,462.08 in hardware acquisition capital expenditure (which includes shipping and professional services) and \$249,930.60 over five (5) years in operational maintenance expenditures to be billed in five (5) equal annual payments.

AOS is a Cisco Systems gold partner and is a certified Cisco authorized technology partner in Advanced Data Center Architecture and Advanced Data Center Storage Networking among others. AOS was the 2014 Commercial Partner of the Year and Services Partner of the Year for the central region.

Note: The pricing for this hardware was obtained directly through AOS and Cisco Systems. As part of I.T.'s due diligence in investigating this purchase, it was determined this direct pricing provides significant savings over pricing available through the State of Iowa WSCA (Western States Contracting Alliance) contract. WSCA discounts for Cisco hardware are in the range of 38 to 40.5 percent off of list prices. Through procuring services from IA WSCA Participating Partner, AOS, Scott County is realizing discounts approaching 80% on product and 70% on services. AOS worked with Senior VPs at Cisco to obtain these discount levels in consideration of a one-time technology migration credit to an all Cisco solution and for Scott County agreeing to be a reference customer. (The State of Iowa WSCA contract is competitively sourced and is available for use by all State of Iowa Agencies and Political Sub-Divisions within the State of Iowa including Scott County.)

It is recommended that the Board approve the attached bid from AOS and Cisco Systems.

Budget dollars are available in the Scott County Capital Improvement Program budgets to fund the cost of this project. SECC will fund twenty-five (25) percent of both the capital project and yearly maintenance costs.

Encl(s): 1



Alexander Open Systems

1859 Bowles Ave Suite 200
 Fenton, MO 63026
 Office: (636) 680-1000 Fax: (636) 680-1010
 Account Manager: Tom Sparkman
 Design Architect: Pat Meighan
 Inside Sales: Nicholas Guess

Project Summary

Hardware Total	\$ 529,963.14
Maintenance Total	\$ 249,930.60
Subtotal	\$ 779,893.74
Shipping & Handling	\$ 7,798.94
Professional Services	\$ 9,700.00
OEM Services	\$ -
Project Total **	\$ 797,392.68

Quote No:

Project Name:

Scott County Iowa
 UCS & Invicta Project
 Two 24 TB Invicta with UCS Servers & UCS Director

Financing Options Available Upon Request

Date Prepared:	7/23/2014
Quote Valid Until:	8/22/2014

*If the above address is not the shipping address, please provide the proper address.

*Please reference the above Quote Number when sending in Customer PO.

**Plus Applicable Taxes, Travel, and Expenses

Part Number	Description	Lead Time	Qty	Unit	Price	Extended Price
HARDWARE / SOFTWARE						
UCS-SP7-B200-P	UCS SP7 B200 PERF 2x6296 1xCH 4xB200w/2x2680v2 256G		2			
UCS-SP-INFRA-CHSS	UCS SP BASE 5108 Blade Svr AC Chassis		2		5,433.75	10,867.50
N01-UAC1	Single phase AC power module for UCS 5108		2			
N20-CAK	Accessory kit for UCS 5108 Blade Server Chassis		2			
N20-CBLKB1	Blade slot blanking panel for UCS 5108/single slot		16			
N20-FAN5	Fan module for UCS 5108		16			
N20-FW011	UCS Blade Server Chassis FW Package 2.1		2			
UCS-IOM-2208XP	UCS 2208XP I/O Module (8 External, 32 Internal 10Gb Ports)		4			
UCSB-5108-PKG-HW	UCS 5108 Packaging for chassis with half width blades.		2			
UCSB-PSU-2500ACPL	2500W Platinum AC Hot Plug Power Supply for UCS 5108 Chassis		8			
CAB-C19-CBN	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors		8			
UCS-SP7-INFRA-FI96	(Not sold standalone) UCS 6296UP 2RU Fabric Int w/18p LIC		4		5,220.00	20,880.00
CAB-9K12A-NA	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America		8			
DS-SFP-FC8G-SW	8 Gbps Fibre Channel SW SFP+, LC		16			
N10-MGT011	UCS Manager v2.1		4			
SFP-10G-SR	10GBASE-SR SFP Module		8			
SFP-H10GB-CU3M	10GBASE-CU SFP+ Cable 3 Meter		24			
UCS-ACC-6296UP	UCS 6296UP Chassis Accessory Kit		4			
UCS-BLKE-6200	UCS 6200 Series Expansion Module Blank		12			
UCS-FAN-6296UP	UCS 6296UP Fan Module		16			
UCS-PSU-6296UP-AC	UCS 6296UP Power Supply/100-240VAC		8			
UCS-SP7-SR-B200-P	(Not a standalone SKU) B200M3 w/ 2xE52680B16x16GBVIC1240		8		8,232.87	65,862.96
N20-BBLKD	UCS 2.5 inch HDD blanking panel		16			
UCS-CPU-E52680B	2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz		16			
UCS-MR-1X162RZ-A	16GB DDR3-1866-MHz RDIMM/PC3-14900/dual rank/x4/1.5v		128			
UCSB-HS-01-EP	CPU Heat Sink for UCS B200 M3 and B420 M3		16			
UCSB-MLOM-40G-01	Cisco UCS VIC 1240 modular LOM for M3 blade servers		8			
UCS-EZ7-B200-P	UCS SP7 B200 PERF EXP w/ 2xE5-2680v2 256G VIC1240		2		8,140.00	16,280.00
N20-BBLKD	UCS 2.5 inch HDD blanking panel		4			
UCS-CPU-E52680B	2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz		4			
UCS-MR-1X162RZ-A	16GB DDR3-1866-MHz RDIMM/PC3-14900/dual rank/x4/1.5v		32			
UCSB-HS-01-EP	CPU Heat Sink for UCS B200 M3 and B420 M3		4			
UCSB-MLOM-40G-01	Cisco UCS VIC 1240 modular LOM for M3 blade servers		2			
UCSW-A-REPLICATE=	UCS Invicta C3124SA Asynchronous/Open Target Replication		2		6,300.00	12,600.00
UCSW-SA1-12T	UCS Invicta 12TB Scaling System Un-racked -K9		2		90,200.00	180,400.00
UCSW-SA-PALET	UCSW Invicta Unracked Packing Pallet		2			
UCSW-MC1M	UCS Invicta Mellanox cable up to 56Gb/s QSFP connectors		8			
UCSW-MC2M	UCS Invicta Mellanox cable up to 56Gb/s QSFP connectors		8			
UCSW-TR-MSX	UCS Invicta Scaling System Switched Config		2			
UCSW-C710R-U	UCS Invicta C710SR Router Un-racked for Scaling System -K9		2			
UCSW-PCIE-Q2564	Qlogic QLE2564 Quad Port 8Gb Fibre Channel HBA		2		1,444.17	2,888.34
CAB-C13-C14-1M	UCSW Whiptail Power Cord Jumper C13-C14 Connectors 1 Meter		4			
N20-BBLKD	UCS 2.5 inch HDD blanking panel		44			
UCS-CPU-E52630B	2.60 GHz E5-2630 v2/80W 6C/15MB Cache/DDR3 1600MHz		4			
UCS-MR-1X162RY-A	16GB DDR3-1600-MHz RDIMM/PC3-12800/dual rank/1.35v		8			
UCSC-HS-C240M3	Heat Sink for UCS C240 M3 Rack Server		4			
UCSC-PCIF-01F	Full height PCIe filler for C-Series		2			
UCSC-PSU2-1200	1200W 2u Power Supply For UCS		4			
UCSC-RAID-MZ-240	2008 Mezz Card for UCS C240 server HW TSOC For RAID 0/1/10		2			
UCSC-RAIL-2U	2U Rail Kit for UCS C-Series servers		2			
UCSW-PCIE-MX2GIB	Mellanox Connect-X MHQH29C-XTR QSFP IB 40GbS Server Adapter		6			
UCSW-SAR-OS5.X-K9	UCS Invicta Scaling System Router Operating System 5.x -K9		2			

UCSW-SD120G0KA2-C	UCS Invicta Micron M500 SSD 120GB	4		
UCSW-C710R-U	UCS Invicta C710SR Router Un-racked for Scaling System -K9	2		
UCSW-PCIE-Q2564	Qlogic QLE2564 Quad Port 8Gb Fibre Channel HBA	2	1,444.17	2,888.34
CAB-C13-C14-1M	UCSW Whiptail Power Cord Jumper C13-C14 Connectors 1 Meter	4		
N20-BBLKD	UCS 2.5 inch HDD blanking panel	44		
UCS-CPU-E52630B	2.60 GHz E5-2630 v2/80W 6C/15MB Cache/DDR3 1600MHz	4		
UCS-MR-1X162RY-A	16GB DDR3-1600-MHz RDIMM/PC3-12800/dual rank/1.35v	8		
UCSC-HS-C240M3	Heat Sink for UCS C240 M3 Rack Server	4		
UCSC-PCIF-01F	Full height PCIe filler for C-Series	2		
UCSC-PSU2-1200	1200W 2u Power Supply For UCS	4		
UCSC-RAID-MZ-240	2008 Mezz Card for UCS C240 server HW TSOC For RAID 0/1/10	2		
UCSC-RAIL-2U	2U Rail Kit for UCS C-Series servers	2		
UCSW-PCIE-MX2GIB	Mellanox Connect-X MHQH29C-XTR QSFP IB 40GbS Server Adapter	6		
UCSW-SAR-OS5.X-K9	UCS Invicta Scaling System Router Operating System 5.x -K9	2		
UCSW-SD120G0KA2-C	UCS Invicta Micron M500 SSD 120GB	4		
UCSW-C3124N-6T-U	UCS Invicta C3124SN 6T Node Un-racked Scaling System -K9	2		
UCSW-DDUP-6T	UCS Invicta De-Dup Software for 6TB	2	6,300.00	12,600.00
CAB-C13-C14-1M	UCSW Whiptail Power Cord Jumper C13-C14 Connectors 1 Meter	4		
UCS-CPU-E52680B	2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz	4		
UCS-MR-1X162RY-A	16GB DDR3-1600-MHz RDIMM/PC3-12800/dual rank/1.35v	32		
UCS-SD-32G-S	32GB SD Card for UCS servers	4		
UCSC-HS-C240M3	Heat Sink for UCS C240 M3 Rack Server	4		
UCSC-PCIF-01F	Full height PCIe filler for C-Series	4		
UCSC-PSU2-1200	1200W 2u Power Supply For UCS	4		
UCSC-RAIL-2U	2U Rail Kit for UCS C-Series servers	2		
UCSW-PCIE-MX2GIB	Mellanox Connect-X MHQH29C-XTR QSFP IB 40GbS Server Adapter	2		
UCSW-PCIE-NVRAM	UCS Invicta Netlist NVRAM card	2		
UCSW-SA-OS5.X-K9	UCS Invicta Scaling System Operating System 5.x -K9	2		
UCSW-SAS9207-8I	UCS Invicta PCIe Card SAS 6.0Gbps 8 port LSI HBA	2		
UCSW-SD240G0KA2-C	UCS Invicta Micron M500 SSD 240GB	48		
UCSW-C3124N-6T-U	UCS Invicta C3124SN 6T Node Un-racked Scaling System -K9	2		
UCSW-DDUP-6T	UCS Invicta De-Dup Software for 6TB	2	6,300.00	12,600.00
CAB-C13-C14-1M	UCSW Whiptail Power Cord Jumper C13-C14 Connectors 1 Meter	4		
UCS-CPU-E52680B	2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz	4		
UCS-MR-1X162RY-A	16GB DDR3-1600-MHz RDIMM/PC3-12800/dual rank/1.35v	32		
UCS-SD-32G-S	32GB SD Card for UCS servers	4		
UCSC-HS-C240M3	Heat Sink for UCS C240 M3 Rack Server	4		
UCSC-PCIF-01F	Full height PCIe filler for C-Series	4		
UCSC-PSU2-1200	1200W 2u Power Supply For UCS	4		
UCSC-RAIL-2U	2U Rail Kit for UCS C-Series servers	2		
UCSW-PCIE-MX2GIB	Mellanox Connect-X MHQH29C-XTR QSFP IB 40GbS Server Adapter	2		
UCSW-PCIE-NVRAM	UCS Invicta Netlist NVRAM card	2		
UCSW-SA-OS5.X-K9	UCS Invicta Scaling System Operating System 5.x -K9	2		
UCSW-SAS9207-8I	UCS Invicta PCIe Card SAS 6.0Gbps 8 port LSI HBA	2		
UCSW-SD240G0KA2-C	UCS Invicta Micron M500 SSD 240GB	48		
UCSW-C3124N-6TEU	UCS Invicta C3124SN 6T Node Un-racked Add-on -K9	2	41,000.00	82,000.00
UCSW-DDUP-6T	UCS Invicta De-Dup Software for 6TB	2	6,300.00	12,600.00
CAB-C13-C14-1M	UCSW Whiptail Power Cord Jumper C13-C14 Connectors 1 Meter	4		
UCS-CPU-E52680B	2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz	4		
UCS-MR-1X162RY-A	16GB DDR3-1600-MHz RDIMM/PC3-12800/dual rank/1.35v	32		
UCS-SD-32G-S	32GB SD Card for UCS servers	4		
UCSC-HS-C240M3	Heat Sink for UCS C240 M3 Rack Server	4		
UCSC-PCIF-01F	Full height PCIe filler for C-Series	4		
UCSC-PSU2-1200	1200W 2u Power Supply For UCS	4		
UCSC-RAIL-2U	2U Rail Kit for UCS C-Series servers	2		
UCSW-PCIE-MX2GIB	Mellanox Connect-X MHQH29C-XTR QSFP IB 40GbS Server Adapter	2		
UCSW-PCIE-NVRAM	UCS Invicta Netlist NVRAM card	2		
UCSW-SA-OS5.X-K9	UCS Invicta Scaling System Operating System 5.x -K9	2		
UCSW-SAS9207-8I	UCS Invicta PCIe Card SAS 6.0Gbps 8 port LSI HBA	2		
UCSW-SD240G0KA2-C	UCS Invicta Micron M500 SSD 240GB	48		
UCSW-C3124N-6TEU	UCS Invicta C3124SN 6T Node Un-racked Add-on -K9	2	42,000.00	84,000.00
CAB-C13-C14-1M	UCSW Whiptail Power Cord Jumper C13-C14 Connectors 1 Meter	4		
UCS-CPU-E52680B	2.80 GHz E5-2680 v2/115W 10C/25MB Cache/DDR3 1866MHz	4		
UCS-MR-1X162RY-A	16GB DDR3-1600-MHz RDIMM/PC3-12800/dual rank/1.35v	32		
UCS-SD-32G-S	32GB SD Card for UCS servers	4		
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UCSW-PCIE-MX2GIB	Mellanox Connect-X MHQH29C-XTR QSFP IB 40GbS Server Adapter	2		
UCSW-PCIE-NVRAM	UCS Invicta Netlist NVRAM card	2		
UCSW-SA-OS5.X-K9	UCS Invicta Scaling System Operating System 5.x -K9	2		
UCSW-SAS9207-8I	UCS Invicta PCIe Card SAS 6.0Gbps 8 port LSI HBA	2		
UCSW-SD240G0KA2-C	UCS Invicta Micron M500 SSD 240GB	48		
UCSW-DDUP-6T	UCS Invicta De-Dup Software for 6TB	2	6,300.00	12,600.00
UCS-SD-16G=	16GB SD Card module for UCS Servers	20	44.80	896.00

MAINTENANCE / SUPPORT

60 Months Smartnet Maintenance

CON-OSP-SPINFRAC	ONSITE 24X7X4 5108 Blade Server Chassis	2		396.50	793.00
CON-OSP-SP7F6296	ONSITE 24X7X4 TBD	4		2,940.20	11,760.80
CON-OSP-SP7B200P	ONSITE 24X7X4 TBD	8		468.18	3,745.44
CON-OSP-EZ7B200P	ONSITE 24X7X4 TBD	2		468.18	936.36
CON-SAS-REPLICA	UCS Invicta C3124SA System Replication	2		7,777.50	15,555.00
CON-OSP-SA112T	Null SKU--No line item services included	2			
CON-OSP-WTC720RU	UCS Invicta C710SR Router	2		8,835.00	17,670.00
CON-OSP-WTC720RU	UCS Invicta C710SR Router	2		8,835.00	17,670.00
CON-OSP-WT6TBU	UCS Invicta C3124SN 6T Node	2		18,150.00	36,300.00
CON-SAS-DDUP6TB	UCS Invicta De-dupe SW 6TB	2		4,575.00	9,150.00
CON-OSP-WT6TBU	UCS Invicta C3124SN 6T Node	2		18,150.00	36,300.00
CON-SAS-DDUP6TB	UCS Invicta De-dupe SW 6TB	2		4,575.00	9,150.00
CON-OSP-WT6TBEU	UCS Invicta C3124SN 6T Node	2		18,150.00	36,300.00
CON-SAS-DDUP6TB	UCS Invicta De-dupe SW 6TB	2		4,575.00	9,150.00
CON-OSP-WT6TBEU	UCS Invicta C3124SN 6T Node	2		18,150.00	36,300.00
CON-SAS-DDUP6TB	UCS Invicta De-dupe SW 6TB	2		4,575.00	9,150.00
CON-SAU-CUICSBUN2					

AOS PROFESSIONAL SERVICES

AOS-PRO-SERV	AOS Professional Services (Statement of Work Required)	1	FLAT FEE	9,700.00	9,700.00
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OEM SERVICES

AOS-TELTRON	Cisco Invicta Impelementation	2	N/C		
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Terms and Conditions

Customer signature constitutes agreement with all AOS Terms and Conditions, which may be found at <http://www.aos5.com/terms> in addition to any addendums shown on this quote.

To accept this quotation, please sign and return to Alexander Open Systems:

Customer Signature of Authorization

Printed Name

Title

Date

THE COUNTY AUDITOR'S SIGNATURE CERTIFIES
THAT THIS RESOLUTION HAS BEEN FORMALLY
APPROVED BY THE BOARD OF SUPERVISORS ON

DATE

SCOTT COUNTY AUDITOR

R E S O L U T I O N

SCOTT COUNTY BOARD OF SUPERVISORS

July 31, 2014

APPROVING PURCHASE OF SERVERS AND STORAGE AREA NETWORK

BE IT RESOLVED BY the Scott County Board of Supervisors as follows:

Section 1. The purchase of Cisco servers, storage area network, and professional installation services in the amount of \$547,462.08 and five years of maintenance in the amount of \$249,930.60 is hereby approved.

Section 2. This resolution shall take effect immediately.