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Governor

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Ray Tenorio
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September 18, 2015

Invitation for Bid GSA-117-15
12, 24, 48, PORT BROCADE SWITCH

AMENDMENT #3

1. AMEND TO CHANGE "BID OPENING" DATE FROM SEPTEMBER 22, 2015 AT 9:00AM TO NOW READ: SEPTEMBER 24, 2015 AT 2:00PM

2. AMEND TO REPLACE PAGES 28, 30, 32, 34, 36, AND 37 WITH THE "REVISED 9/18/15" PAGES 28, 30, 32, 34, 36, AND 27 (ATTACHED)

All others remains unchanged.

CLAUDIA S. ACFALLE
Chief Procurement Officer

ITEM NO.	DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION
1.1	12 Port Switch- **1GB** SFP Port Brocade ICX-6430 as per the following specifications below	1 EA.	$_____	$_____

SPECIFICATIONS: **BIDDING ON OR REMARKS**

RJ-45 Ports: 10/100/1000 w/PoE   _____
Activate 10GB Port SFP **(1 ea.)**   _____
Activate 1GB Port SFP **(1 ea.)**   _____

10G SFP Single Fiber Module – LR **(1 ea.)**   _____
1G STP Single Fiber Module – LR **(1 ea.)**   _____

Fiber Patch Cable 6 feet – **(4 ea.)**   _____
Direct Attached Copper Cable-Twinax **8 ft. (1 ea.)** _____
PoE+ Power 12 Port   _____

Out of band Ethernet Management:
10/100/1000Mbps RJ-45   _____
Console Management: RJ45 serial   _____
VLAN: 4096   _____
Spanning Trees (STP): Max: 32   _____

MAC Addresses: Max 8000   _____
Routes: Max 12,000   _____
Trunking: Max port per trunk: 8   _____
Trunk Group: 29   _____

Priority Queues: 4   _____
Jumbo Frame Size: 9216 Bytes   _____
AC Power Supply 120-220V   _____

Layer 2
802.1s Multiple Spanning Tree 802.1x
802.1xAuthentication   _____

Auto MDI/MDIX   _____
BPDU Guard, Root Guard   _____
Switching Capacity (Data Rate, Full Duplex 56Gbps   _____
Forwarding Capacity (Data Rate, Full Duplex) 42GBPS   _____
Dual –Mode Vlans   _____

Mac-based VLANs, Dynamic MAC based VLAN activation   _____
Dynamic VLAN Assignment   _____
Dynamic Voice VLAN Assignment   _____
Fast Port Span   _____
GARP VLAN Registration Protocol   _____

IGMP Snooping (v1/v2/v3)   _____
ICMP Proxy for Static Group   _____
ICMP v2/v3 Fast Leave   _____
IGMP Tracking   _____

Inter-Packet Gap (IPG) adjustment   _____
Link Fault Signaling (LFS)   _____
Link Fault Signaling (LFS)   _____

MAC Address Locking; MAC   _____
MAC-Layer Filtering   _____
MAC Learning Disable   _____
MAC-Layer Filtering – Source & Destination MAC address _____

1.2	24 Port Switch- 8 1/10Gb SFP Port Brocade ICX7250-24P specifications below	1 ea.	$_____	$_____

SPECIFICATIONS:

BIDDING ON OR REMARKS

RJ-45 Ports: 10/100/1000
10GB SFP Port Activated **(2 ea.)** w/ Module **(2 ea.)**
1GB SFP Port Activated **(8 ea.)** w/ Module **(2 ea.)**
10G SFP Single Fiber Module – LR **(2 ea.)**
1G STP Single Fiber Module – LR **(2 ea.)**
Poe+ Class 3 Port 24 port
Fiber LC-LCPatch Cable 6 feet – **(6 ea.)**
Direct Attached Copper Cable-Twinax **8 ft. (1 ea.)**
Advanced IPv4/v6 L3 routing (RIP, OSPF)
Stacking bandwidth: 80GPS Full Duplex
Stacking density: 12
Stacking Distance: 10km

Console Management: USB / Serial w/ cable
VLAN: 4096
Spanning Trees (STP): Max: 254
MAC Addresses: Max 16,000
Routes: Max 12,000
Trunking: 16
QOS Priority Queues: 8
Jumbo Frame Size: 9216 Bytes
AC Power Supply 120-220V
AC Redundant Power Supply
Switching Capacity: 176Gbps
Forwarding Capacity 132Mpps

Layer 2 Switching:
802.1s Multiple Spanning Tree
802.1x Authentication
Auto MDI/MDIX
BPDU Guard, Root Guard
Dual-Mode VLANs
MAC-based VLANs, Dynamic MAC based VLAN activation

Dynamic VLAN Assignment
Dynamic Voice VLAN Assignment
Fast Port Span
GARP VLAN Registration Protocol
IGMP Snooping (v1/v2/v3).
Link Fault Signaling (LFS)
IGMP Vlan Registration Protocol
IGMP Snooping (v1/v2/v3)
IGMP Proxy for Static Groups
IGMP v/2/v3 Fast Leave
IGMP Tracking
Inter-Packed Gap (IPG) adjustment
MAC Address Locking; Port Security
MAC-Layer Filtering
MAC Learning Disable
MLD Snooping (v1/v2)
Multi-device Authentication
Per-VLAN Spanning Tree (PVST/PVST +/PVRST)
Port-based Access Control Lists
Mirroring - Port-based, ACL-based, MAC Filter-based, and VLAN-based
Port Loop Detection

"REVISED 9/18/15"

ITEM NO.	DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION
1.3	48 Port Switch- 8 1/10Gb SFP Port Brocade ICX7250-48P specifications below	1 ea.	$_____	$_____

SPECIFICATIONS:

BIDDING ON OR REMARKS

RJ-45 Ports: 10/100/1000
10GB SFP Port Activated (2 ea.) w/ Module **(2 ea.)**
1GB SFP Port Activated (8 ea.) w/ Module **(2 ea.)**
10G SFP Single Fiber Module – LR **(2 ea.)**
1G STP Single Fiber Module – LR **(2 ea.)**
Poe+ Class 3 Port 48 port
Fiber LC-LCPatch Cable 6 feet – **(6 ea.)**
Direct Attached Copper Cable-Twinax **8 ft. (1 ea.)**
Advanced IPv4/v6 L3 routing (RIP, OSPF)
Stacking bandwidth: 80GPS Full Duplex
Stacking density: 12
Stacking Distance: 10km
Console Management: USB / Serial w/ cable
VLAN: 4096
Spanning Trees (STP): Max: 254
MAC Addresses: Max 16,000
Routes: Max 12,000
Trunking: 16
QOS Priority Queues: 8
Jumbo Frame Size: 9216 Bytes
AC Power Supply 120-220V
AC Redundant Power Supply
Switching Capacity: 176Gbps
Forwarding Capacity 132Mpps

Layer 2 Switching:
802.1s Multiple Spanning Tree
802.1x Authentication
Auto MDI/MDIX
BPDU Guard, Root Guard
Dual-Mode VLANs
MAC-based VLANs, Dynamic MAC based
VLAN activation
Dynamic VLAN Assignment
Dynamic Voice VLAN Assignment
Fast Port Span
GARP VLAN Registration Protocol
IGMP Snooping (v1/v2/v3)
Link Fault Signaling (LFS)
IGMP Vlan Registration Protocol
IGMP Snooping (v1/v2/v3)
IGMP Proxy for Static Groups
IGMP v/2/v3 Fast Leave
IGMP Tracking
Inter-Packed Gap (IPG) adjustment
MAC Address Locking; Port Security
MAC-Layer Filtering
MAC Learning Disable
MLD Snooping (v1/v2)
Multi-device Authentication
Per-VLAN Spanning Tree (PVST/PVST +/PVRST)
Port-based Access Control Lists
Mirroring - Port-based, ACL-based, MAC
Filter-based, and VLAN-based

ITEM NO.	DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION
1.4	Brocade VDX 6720-24 1/10Gbe SFP+ (equal to or better). As per the following specifications	1 ea.	$_____	$_____

SPECIFICATIONS: **BIDDING ON/REMARKS**

1/10 Gbe SFP+ ports: 24 _____
Ports on Demand (Pod) increments: 16, 24 _____
Activate 24 Port: 10Gb _____
Max Spanning Tree Instances: 32: _____
Max Port Profiles (AMPP): 256 _____
Max Layer 2 Multicast Group: 2000 _____
VLAN: 4096 _____
MAC Addresses: Max 32,000 _____
Max Per-Port Priority pause Level: 8 _____
Max LAG Groups in a VCS fabric: 512 _____
Max Members in Standard LAG: 16 _____
Max MAC Addresses in a CS fabric: 30000 _____
Max Switch in a VCS fabrics: 24 _____
Max switches in a VCS fabrics: 24 _____
Max ECMP paths in a VCS fabrics: 8 _____
Max Truck Members for VCS fabric ports: 8 _____
Max switches across which a vLAG can span: 4 _____
Max Members in a VLAG: 16 _____
Max Jumbo Frame Size: 9208 bytes _____
Queues per port: 8 _____
DCB Priority Flow Control (PFC) classes _____

LAYER 2
Max Learning and Aging _____
Static MAC Configuration _____
Link Aggregation Control Protocal (LACP) _____
802.3AD.802.1ax _____
VLAN _____
VLAN Encapsulation 802.1Q _____
Rapid Spanning Tree Protocal (RSTP) 802.1D _____
Multiple Spanning Tree Protocol (MSTP) 802.1S _____
Per-Vlan Spamming Tree (PVST=/PVRST+) _____
Stp PortFast & PortFast BDPU Guard _____
Layer 2 Access Control Lists (ACL) _____
Address Resolution Protocol (ARP) RFC 826 _____
IGMP v1/v2 Snooping _____
Pause Frames 802.3x _____

VCS Fabric Features:
Automatic Fabric Formation _____
Distributed Fabric Services _____
Transport LAN Services _____

VLAN
Switching Beaconing _____
Distributed Configuration Management _____
STP Root Guard _____
Layer 2 Access Control List (ACLs) _____
Address Resolution Protocol (ARP) RFC 826 _____
IGMP V1/V2 Snooping _____
Distributed Configuration Management _____
STP Root Guard _____
Layer 2 Access Control List (ACLs) _____
Address Resolution Protocol (ARP) RFC 826 _____
IGMP V1/V2 Snooping _____

ITEM NO.	DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION
1.5	Brocade VDX 6720 10Gb SFP+ Module (equal to or better)	1 ea.	$_____	$_____

BIDDING ON
Manufacturer:_____
Place of origin:_____
Year:_____
Date of delivery:_____

Note: Office of Technology has upgrade the network with Brocade switch. Spec is similar to existing Brocade switch installed within the government.

Prepared By: Ben Camacho, System & Programmer Administrator – Office of Technology 6/29/15
And approved by: Anthony Blaz, Director.

| 1.6 | Brocade VDX 6720 1Gb SFP+ Module Multi-Mode (equal to or better) | 1 ea. | $_____ | $_____ |

BIDDING ON
Manufacturer:_____
Place of origin:_____
Year:_____
Date of delivery:_____

Note: Office of Technology has upgrade the network with Brocade switch. Spec is similar to existing Brocade switch installed within the government.

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And approved by: Anthony Blaz, Director

| 1.7 | Brocade VDX 6720 10Gb SFP+ Module Multi-Mode (equal to or better) | 1 ea. | $_____ | $_____ |

BIDDING ON
Manufacturer:_____
Place of origin:_____
Year:_____
Date of delivery:_____

Note: Office of Technology has upgrade the network with Brocade switch. Spec is similar to existing Brocade switch installed within the government.

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ITEM NO.	DESCRIPTION	QTY/UOM	UNIT PRICE	PRICE EXTENSION

8.1 Brocade VDX 6720 1GB TX
     (equal to or better)   1   ea. $_____ $_____

BIDDING ON
Manufacturer:_____
Place of origin:_____
Year:_____
Date of delivery:_____

Note: Office of Technology has upgrade the network with Brocade switch. Spec is similar to existing Brocade switch installed within the government.   Prepared By: Ben Camacho, System & Programmer Administrator – Office of Technology 6/29/15 And approved by: Anthony Blaz, Director

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9.1   Brocade VDX 6720 10GB TX
       (equal to or better)   1   ea. $_____ $_____

BIDDING ON
Manufacturer:_____
Place of origin:_____
Year:_____
Date of delivery:_____

Note: Office of Technology has upgrade the network with Brocade switch. Spec is similar to existing Brocade switch installed within the government. Prepared By: Ben Camacho, System & Programmer Administrator – Office of Technology 6/29/15 An approved by: Anthony Blaz, Director

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10.1 Brocade VDX 6720 10G Twinax
       6 feet. (equal to or better)   5   ea. $_____ $_____

BIDDING ON
Manufacturer:_____
Place of origin:_____
Year:_____
Date of delivery:_____

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11.1 LC-LC Single Mode Fiber Patch Cable 30ft   15   ea. $_____ $_____

BIDDING ON
Manufacturer:_____
Place of origin:_____
Year:_____
Date of delivery:_____

Note: Office of Technology has upgrade the network with Brocade switch. Spec is similar to existing Brocade switch installed within the government.

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