

# **FBCSO Switch Pricing for New Building**

## **Scope of Work**

**Prepared for: Fort Bend County Sheriff's Office**

**Presented on: 10/15/2018**

**Version**

**Quote # DVXQ8762-01**





6650 W. Sam Houston Pkwy S, Houston, TX 77072

t. (713)881-5300 [www.datavox.net](http://www.datavox.net)

**Quote #** DVXQ8762-01

**Date** Oct 15, 2018

**Expiration** 30 Days

**Prepared for:**

**Fort Bend County Sheriff's Office**

1410 Williams Way Blvd. Richmond, TX  
774  
Richmond, Texas 77469  
USA

**Ship to Information:**

**Fort Bend County Sheriff's Office**

1410 Williams Way Blvd. Richmond, TX  
774  
Richmond, Texas 77469  
USA

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**Customer ID #**

**Project #**



DataVox Texas DIR Vendor Number: 176-025-1479-000

**FBCSO Switch Pricing for New Building**

Part #	Description	Contract#	Svc	Qty	Unit Price	Ext. Price
<b>Main Building Core Switch</b>						
C9410R-96U-BNDL-A	Catalyst 9400 Series 10 slot,Sup, 2xC9400-LC-48U, DNA-A LIC	DIR-TSO-4167	---	1	\$14,553.00	\$14,553.00
CON-SSSNT-C9410R9A	SOLN SUPP 8X5XNBD Catalyst 9400 Series 10 slot,Sup, 2xC940	DIR-TSO-4167	36	1	\$5,082.00	\$5,082.00
C9400-NW-A	Cisco Catalyst 9400 Network Advantage License	DIR-TSO-4167	---	2	\$0.00	\$0.00
C9400-S-BLANK	Cisco Catalyst 9400 Series Slot Blank Cover	DIR-TSO-4167	---	2	\$0.00	\$0.00

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Part #	Description	Contract#	Svc	Qty	Unit Price	Ext. Price
S9400UK9-168	UNIVERSAL	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-PWR-3200AC	Cisco Catalyst 9400 Series 3200W AC Power Supply	DIR-TSO-4167	---	4	\$1,009.80	\$4,039.20
CAB-C19-CBN	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	DIR-TSO-4167	---	4	\$0.00	\$0.00
CAB-CON-C9K-RJ45	Console Cable 6ft with RJ-45-to-RJ-45	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-DNA-A	Cisco Catalyst 9400 DNA Advantage Term License	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-DNA-A-3Y	Cisco Catalyst 9400 DNA Advantage 3 Year License	DIR-TSO-4167	36	1	\$6,425.00	\$6,425.00
C9400-SUP-1-B	Cisco Catalyst 9400 Series Supervisor-1 Bundle Select Option	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-SUP-1	Cisco Catalyst 9400 Series Supervisor 1 Module	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-SUP-1/2	Cisco Catalyst 9400 Series Redundant Supervisor 1 Module	DIR-TSO-4167	---	1	\$7,140.00	\$7,140.00
C9400-LC-48U-B	Cisco Catalyst 9400 Series 2xC9400-LC-48U for Bundle Select	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet(SFP+)	DIR-TSO-4167	---	1	\$12,484.80	\$12,484.80
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-SSD-240GB	Cisco Catalyst 9400 Series 240GB M2 SATA memory	DIR-TSO-4167	---	1	\$1,040.40	\$1,040.40
					<b>SubTotal</b>	<b>\$64,809.80</b>
<b>New Building Level 1</b>						
WS-X45-SUP8L-E=	Catalyst 4500 E-Series Supervisor 8L-E	DIR-TSO-4167		2	\$6,549.40	\$13,098.80
C4500E-IP-ES-S	C4500E IP to ES license for spare Sup config	DIR-TSO-4167		2	\$5,457.40	\$10,914.80
WS-X4748-RJ45V+E=	Catalyst 4500E 48-Port PoE 802.3at 10/100/1000(RJ45)	DIR-TSO-4167		1	\$5,158.40	\$5,158.40
					<b>SubTotal</b>	<b>\$29,172.00</b>
<b>New Building Level 2</b>						
C9410R-96U-BNDL-A	Catalyst 9400 Series 10 slot,Sup, 2xC9400-LC-48U, DNA-A LIC	DIR-TSO-4167	---	1	\$14,553.00	\$14,553.00
CON-SSSNT-C9410R9A	SOLN SUPP 8X5XNBD Catalyst 9400 Series 10 slot,Sup, 2xC940	DIR-TSO-4167	36	1	\$5,082.00	\$5,082.00
C9400-NW-A	Cisco Catalyst 9400 Network Advantage License	DIR-TSO-4167	---	2	\$0.00	\$0.00
C9400-S-BLANK	Cisco Catalyst 9400 Series Slot Blank Cover	DIR-TSO-4167	---	3	\$0.00	\$0.00

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C9400-PWR-3200AC	Cisco Catalyst 9400 Series 3200W AC Power Supply	DIR-TSO-4167	---	4	\$1,009.80	\$4,039.20
CAB-C19-CBN	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	DIR-TSO-4167	---	4	\$0.00	\$0.00
CAB-CON-C9K-RJ45	Console Cable 6ft with RJ-45-to-RJ-45	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-DNA-A	Cisco Catalyst 9400 DNA Advantage Term License	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-DNA-A-3Y	Cisco Catalyst 9400 DNA Advantage 3 Year License	DIR-TSO-4167	36	1	\$6,425.00	\$6,425.00
C9400-SUP-1-B	Cisco Catalyst 9400 Series Supervisor-1 Bundle Select Option	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-SUP-1	Cisco Catalyst 9400 Series Supervisor 1 Module	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-SUP-1/2	Cisco Catalyst 9400 Series Redundant Supervisor 1 Module	DIR-TSO-4167	---	1	\$7,140.00	\$7,140.00
C9400-LC-48U-B	Cisco Catalyst 9400 Series 2xC9400-LC-48U for Bundle Select	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-SSD-240GB	Cisco Catalyst 9400 Series 240GB M2 SATA memory	DIR-TSO-4167	---	1	\$1,040.40	\$1,040.40
					<b>SubTotal</b>	<b>\$57,006.80</b>

**New Building Level 3**

C9410R-96U-BNDL-A	Catalyst 9400 Series 10 slot,Sup, 2xC9400-LC-48U, DNA-A LIC	DIR-TSO-4167	---	1	\$14,553.00	\$14,553.00
CON-SSSNT-C9410R9A	SOLN SUPP 8X5XNBD Catalyst 9400 Series 10 slot,Sup, 2xC940	DIR-TSO-4167	36	1	\$5,082.00	\$5,082.00
C9400-NW-A	Cisco Catalyst 9400 Network Advantage License	DIR-TSO-4167	---	2	\$0.00	\$0.00
C9400-S-BLANK	Cisco Catalyst 9400 Series Slot Blank Cover	DIR-TSO-4167	---	3	\$0.00	\$0.00
S9400UK9-168	UNIVERSAL	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-PWR-3200AC	Cisco Catalyst 9400 Series 3200W AC Power Supply	DIR-TSO-4167	---	4	\$1,009.80	\$4,039.20
CAB-C19-CBN	Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	DIR-TSO-4167	---	4	\$0.00	\$0.00
CAB-CON-C9K-RJ45	Console Cable 6ft with RJ-45-to-RJ-45	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-DNA-A	Cisco Catalyst 9400 DNA Advantage Term License	DIR-TSO-4167	---	1	\$0.00	\$0.00



Part #	Description	Contract#	Svc	Qty	Unit Price	Ext. Price
C9400-DNA-A-3Y	Cisco Catalyst 9400 DNA Advantage 3 Year License	DIR-TSO-4167	36	1	\$6,425.00	\$6,425.00
C9400-SUP-1-B	Cisco Catalyst 9400 Series Supervisor-1 Bundle Select Option	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-SUP-1	Cisco Catalyst 9400 Series Supervisor 1 Module	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-SUP-1/2	Cisco Catalyst 9400 Series Redundant Supervisor 1 Module	DIR-TSO-4167	---	1	\$7,140.00	\$7,140.00
C9400-LC-48U-B	Cisco Catalyst 9400 Series 2xC9400-LC-48U for Bundle Select	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$0.00	\$0.00
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	DIR-TSO-4167	---	1	\$4,681.80	\$4,681.80
C9400-SSD-240GB	Cisco Catalyst 9400 Series 240GB M2 SATA memory	DIR-TSO-4167	---	1	\$1,040.40	\$1,040.40
<b>SubTotal</b>						<b>\$47,643.20</b>

**SFP's (Optics)**

SFP-10G-LR-S=DVX	10GBASE-LR SFP Module, Enterprise-Clas	DIR-TSO-4167		16	\$529.99	\$8,479.84
GBLC2-D1-03	Fiber Optic Patch Cords, 3 meter, SM, LC to LC	DIR-TSO-4167		16	\$21.00	\$336.00

**UPS**

SMX3000HVT	APC Smart-UPS X 3000VA Short Depth Tower/Rack Convertible LCD 208V	DIR-TSO-3702		6	\$1,557.75	\$9,346.50
AP9631	UPS Network Management Card 2 with Environmental Monitoring	DIR-TSO-3702		6	\$491.97	\$2,951.82
WBEXTWAR3YR-SP-04	UPS Network Management Card 2 with Environmental Monitoring Service Pack 3 Year Warranty Extension	DIR-TSO-3702		6	\$269.69	\$1,618.14
<b>SubTotal</b>						<b>\$22,732.30</b>

**Cisco 2802i Wireless Access Points**

AIR-AP2802I-B-K9	802.11ac W2 AP w/CA; 4x4:3; Int Ant; 2xGbE B		---	31	\$797.50	\$24,722.50
CON-SNT-AIRAPIKB	SNTC-8X5XNBD 802.11ac W2 AP w/CA; 3x4:3; Int Ant; 2xG		12	31	\$41.60	\$1,289.60
AIR-AP-T-RAIL-R	Ceiling Grid Clip for Aironet APs - Recessed Mount (Default)		---	31	\$0.00	\$0.00
AIR-AP-BRACKET-1	802.11 AP Low Profile Mounting Bracket (Default)		---	31	\$0.00	\$0.00
SW2802-CAPWAP-K9	Cisco Aironet 2800 Series CAPWAP Software Image		---	31	\$0.00	\$0.00
<b>SubTotal</b>						<b>\$26,012.10</b>

**Cisco AP Licenses for 5508 Controller**

Part #	Description	Contract#	Svc	Qty	Unit Price	Ext. Price
L-LIC-CT5508-UPG	Primary SKU for CT5508 upgrade licenses (Delivery via Email)		---	1	\$0.00	\$0.00
CON-SSSNT-LCTUPG	SOLN SUPP 8X5XNBD Primary SKU for all upgrade options on the		12	1	\$0.00	\$0.00
L-LIC-CT5508-5A	5 AP Adder License for the 5508 Controller(eDelivery)		---	2	\$1,447.10	\$2,894.20
CON-ECMUS-LICCT55A	SOLN SUPP SWSS 5 AP Adder License for the 5508 Controll		12	2	\$339.20	\$678.40
L-LIC-CT5508-25A	25 AP Adder License for the 5508 Controller (eDelivery)		---	1	\$7,247.10	\$7,247.10
CON-ECMUS-LCT25A	SOLN SUPP SWSS 25 AP Adder License for the 5508 Control		12	1	\$1,699.20	\$1,699.20
					<b>SubTotal</b>	<b>\$12,518.90</b>

### Professional Services

Professional Services	DIR-TSO-4167	1	\$39,246.97	\$39,246.97
UPS Installation	DIR-TSO-3702	9	\$90.00	\$810.00
			<b>SubTotal</b>	<b>\$40,056.97</b>

<b>SubTotal</b>	\$299,952.07
<b>Tax</b>	\$0.00
<b>Total</b>	<b>\$299,952.07</b>

## Purchase Notes

- The Professional Services includes the installation the the three new switches and removal and re-installation of the Catalyst 4510 in the thirrd floor of the new building.

The Link between the Main Building and New Building will be Encrypted using MAC Security.



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**Fort Bend County Sheriff's Office FBCSO Switch Pricing for New Building SOW**

**Revision History**

Revision	Date	Name	Description of Change
1.0	8/15/2018	Herbert Witt	Initial draft
2.0	10/14/18	Andrew Ferguson	Added Wireless Scope





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## **Fort Bend County Sheriff's Office FBCSO Switch Pricing for New Building SOW**

### **Acceptance of Scope of Work**

The use of signatures on this Scope of Work is to ensure agreement by Fort Bend County Sheriff's Office on project objectives and the work to be performed by DataVox.

### **Parties to Agreement**

This Scope of Work (SOW) is made and entered into between DataVox, Inc., 6650 West Sam Houston Parkway South, Houston, Texas 77072 ("DataVox") and Fort Bend County Sheriff's Office, 1410 Williams Way Blvd. Richmond, TX 774, Richmond, Texas 77469 ("Customer"), as of the date listed on the title page of this document.

### **Terms**

When (but only when) signed by Customer and an authorized representative of DataVox this shall be a binding, legal contract.

The prices, specifications, and conditions in this SOW are satisfactory, and are hereby accepted in their entirety. Customer hereby agrees to purchase the Equipment and authorizes DataVox to do the work, and provide the materials specified, and payment will be made as outlined in the Payment section of this document. The price quoted in this SOW is based upon the Equipment included in the attached Bill of Material. Any changes in the Equipment or installation may result in a change in the price. Any such change must be in writing, and signed by all parties.

DataVox reserves the right to modify payment terms at any time based on a review of the Customer's credit.

THIS AGREEMENT, WHEN SIGNED BY BOTH PARTIES (BELOW), SHALL BE GOVERNED BY THE TERMS AND CONDITIONS SET FORTH IN THIS DOCUMENT. THE AGREEMENT IS INCORPORATED BY REFERENCE AS IF FULLY SET FORTH HEREIN. THERE ARE NO OTHER AGREEMENTS, OR WARRANTIES, ORAL OR WRITTEN, EXCEPT AS EXPRESSLY STATED IN THIS DOCUMENT. THIS AGREEMENT CANNOT BE MODIFIED EXCEPT IN WRITING AND SIGNED BY BOTH PARTIES.

Customer acknowledges having read and understood all of the terms and conditions specified in this SOW and acknowledges receipt of a complete executed copy of this SOW. Customer understands and agrees that this SOW and all of the terms and conditions hereof shall be a binding, enforceable contract when signed by Customer and by an authorized representative of DataVox.

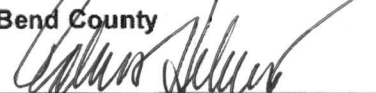


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**Fort Bend County Sheriff's Office FBCSO Switch Pricing for New Building SOW**

**Approval Signatures**

IN WITNESS WHEREOF, the duly authorized representatives of the parties hereto have caused this SOW to be duly executed.

<p><b>DataVox, Inc.</b> DocuSigned by: <u>Chris Butler</u> (Signature) B3CB7A63F9B0482</p> <p><b>By:</b> _____</p> <p><b>Name:</b> <u>Chris Butler</u></p> <p><b>Title:</b> <u>Director of Enterprise Sales</u></p> <p><b>Date:</b> <u>11/19/2018   4:57 PM CST</u></p>	<p><b>Fort Bend County</b></p> <p><b>By:</b> <u></u> (Signature)</p> <p><b>Name:</b> <u>Robert E. Hebert</u></p> <p><b>Title:</b> <u>County Judge</u></p> <p><b>Date:</b> _____</p>
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**Date:** 8/15/18 **Technical validation provided by** Herbert G Witt IV

**Quote file name:** EE\_Services - Ver101716 - FBSCO New Cat9400s and 4507 Swap- Witt IV Rev1.xlsx



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## **Fort Bend County Sheriff's Office FBCSO Switch Pricing for New Building SOW**

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## **Fort Bend County Sheriff's Office FBCSO Switch Pricing for New Building SOW**

### **1.0 Executive Summary**

This Scope of Work (SOW) defines the services that DataVox will provide Fort Bend County Sheriff's Office and the pricing for these services.

Fort Bend County is building a new office at 1840 Williams Way Blvd, Richmond TX 77469. The new building's infrastructure will improve system performance, provide better manageability and support software defined features that Fort Bend County IT will later implement.

#### **1.1 Solution Summary**

The proposed solution is to replace the current Cisco Catalyst 4507R+E in the Main build located at 1410 Williams Way Blvd, Richmond, Texas 77469, with a Cisco Catalyst 9410R. The new building has three (3) floors that require a switch on each floors. To meet the switch requirements of the new building the Cisco Catalyst 4507R+E will be refreshed with new supervisors and an additional 48 port POE blade. The Cisco Catalyst 4507R+E will be installed in the new building with two (2) additional Cisco Catalyst 9400s. This solution also includes a new wireless infrastructure for the new building using (31) Cisco 2802i Wireless access points which will be managed by the existing 5508 Wireless LAN Controller.

#### **1.2 DataVox Assumptions**

This section lists project assumptions.

- Cabling between the building is not a part of this scope of work
- DataVox will reuse the existing patch cables in the main building
- DataVox is not responsible for damaged or non-working patch cables related to the main build switch refresh
- Staging of all project equipment will be done at the DataVox facility
- DataVox will be given remote VPN access to the Customer's network during the course of completing this SOW
- DataVox will be given access to the Customer's network while onsite from a DataVox provided laptop
- DataVox will provide onsite Day 1 support after the cutover to ensure smooth transition.
- Customer is to provide proper cooling and power capacity
- Data Center racks are standard 4 post racks
- 1G fiber SFPs in the existing Cisco 4507R+E are to be re-used in the replacement Cisco Catalyst 9410R
- DataVox will physically mount the wireless access point in the proposed locations
- Wireless access points will be mounted indoors to the ceiling grid using the supplied bracket and/or ceiling grid clip.





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## **Fort Bend County Sheriff's Office FBCSO Switch Pricing for New Building SOW**

- Wireless QoS is not requirement. Cisco best practice RF profile, and deployment strategy will be applied. Such as 2 wireless SSID ~ Local and Guest SSID with Pre-shared key authentication. WPA2 is recommended for Guest SSID. Local SSID is integrated with AD authentication.
- The Customer has the appropriate level of Cisco maintenance and software entitlement to provide DataVox with access to the necessary software upgrade licenses
- Cutovers at each site will be a flash cutover and not a phased cutover

### **1.3 Primary Project Contacts**

The table lists the primary DataVox and Fort Bend County Sheriff's Office contacts for this project.

<b>DataVox</b>		<b>Fort Bend County Sheriff's Office</b>	
<b>Name/Role</b>	<b>Contact Information</b>	<b>Name/Role</b>	<b>Contact Information</b>
Troy Moore / <b>Account Manager</b>	<b>Phone:</b> 713-881-7446 <b>Email:</b> troym@datavox.net	Andy Patti	<b>Phone:</b> 2813414676 <b>Email:</b> andy.patti@co.fort-bend.tx.us

### **2.0 In Scope Services**

This section lists the in-scope services that DataVox will provide Fort Bend County Sheriff's Office at the following locations:

<b>Location</b>	<b>Address</b>
Main Building (HQ)	1410 Williams Way Blvd, Richmond, Texas 77469
New Building	1840 Williams Way Blvd, Richmond, Texas 77469

### **2.1 Phase 1 – Pre-Installation**

- Review and finalized Bill of Materials with the customer
- Review network, wireless and data center final design
- Gather information for all network devices related to this project
- Inventory and create port mapping of the existing Catalyst 4507R+E in Main building since we are replacing with new Catalyst 9410R
- Work with Customer's team to discuss the final network design and technical details necessary to perform this project
- Create a high level and low level design. (to include logical and physical topologies, documented IP addressing, documented VLAN schemes, spanning tree parameters, Layer 2 configurations, routing topology for Layer 3 connectivity for the core and distribution network, software recommendation for Catalyst platform)



## **Fort Bend County Sheriff's Office FBCSO Switch Pricing for New Building SOW**

- Analyze the customers current Wireless Infrastructure so the new Wireless Access Points adhere to the same wireless requirements as the current devices (if applicable) or design a new wireless network to match the customer's wireless requirements and finalize the details for deployment
- Analyze the customers current Wireless LAN Controller environment
- Identify tasks and estimated efforts for project plan finalization
- Inventory and verify hardware and equipment delivery
- Stage and build out infrastructure hardware (for example, line cards, power supplies, supervisors, and fans)
- Power on all equipment, check diagnostics, update software and enable licensing as required
- Interconnect the equipment and validate equipment basic interconnection and operation

## **2.2 Phase 2 - Installation**

### **2.2.1 Infrastructure Network Design and Implementation**

- For the New Building prepare to build a green field infrastructure and work with Fort Bend County team for additional IP scheme and IP structure
- Using the DataVox created port mapping spreadsheet stage and build out the Main buildings replacement Cisco Catalyst 9410R with the five (5) UPOE blades and 24 port SFP+ card
- Stage and build out the New buildings Cisco Catalyst 9400R with the UPOE blades
- Stage and build out the New buildings refreshed Cisco 4507R+E with dual SUP8L-E and new POE blade
- Test the Catalyst 9410R and Catalyst 4507R+E switch hardware including supervisors, line cards, power supplies and fans in DataVox staging facility
- Configure Layer 2 LAN switching services including VLANs, Trunks, Port Channels, UDLD, and IGMP snooping (if applicable)
- Configure Layer 3 services including First Hop Routing Protocol (FHRP), layer 3 unicast routing, EIGRP routing, route summarization, route filtering, route redistribution, multicast routing, policy-based routing (PBR) and other best practice as required
- Configure Catalyst high-availability features, such as Non-Stop Forwarding (NSF) and Stateful Switch Over (SSO)
- Configure local area network security features such as hardware rate limiting, storm control, access control, DHCP snooping, and dynamic ARP inspection
- Configure and implement smart call home, network time protocol, logging, AAA, role based access control (RBAC), rollback configuration, embedded event manager (EEM), simple network management protocol (SNMP) and Netflow
- Configure and install the customer provided Cisco 3850 switch for management purpose

### **2.2.2 Install and commission 4 Catalyst 9400/4500 Switches at customer network**

- Install and configure 21 Catalyst switch line card modules on Catalyst 9400/4500 switches
- Configure Port Channels and trunks on Catalyst 9400/4500 switches to connect other switches

### **2.2.3 Cisco Wireless Implementation**

- Coordinated with the customers cabling team to ensure the access point cabling locations follow the DataVox AP placement design



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- Activate new AP licenses on the customers' existing 5508 Wireless LAN Controller
- Configure additional SSIDs on the customers' existing 5508 Wireless LAN Controller if applicable
- Configure and Mount (31) controller-based Cisco 2802i wireless access point with internal antennas for adequate coverage and throughput throughout the new building
- Assign new Cisco access points to the appropriate new or existing AP group
- Deploy and configure dynamic channel assignment (DCA) for the new wireless access points
- Configure Cisco best practice RF Profile per location (if applicable)

### **2.3 Phase 3 – Installation Cutover**

- Schedule delivery of equipment to the Customer's location
- Review staging and installation requirement for site, interconnection, interoperability and decommissioning of legacy environment (as appropriate)
- Make additional configuration changes as required once the access points are physical mounted at the customer site to ensure the wireless is working as designed
- Rack and stack the equipment
- Interconnect all new infrastructure hardware to the Customer's existing network
- Schedule approved cut-over time with the Customer
- Go Live/Migrate services to new production environment
- Make additional configuration changes as required

### **2.4 Phase 4 – Post Cutover**

- Test with Customer approved test plan
- Go live support
  - Day 1 onsite support
  - Remote follow up support Day 2-3
- Test functionally and performance using test plans and checklist for all services
- Validate network is operating as a highly available network as per design parameters
- Document any issues encountered during this phase and resolve these issues
- Monitor critical network elements, resources, event notifications, performance and utilization of the Core network
- Knowledge transfer of the technical configuration

## **3.0 Out of Scope Services**

The following services are outside the scope of work:

- ⊗ Ordering circuits or managing orders from providers for data or voice
- ⊗ Troubleshooting manufacturer bugs that are not system critical (business severely impacted)
- ⊗ Advanced wireless security including certificated-based
- ⊗ System testing beyond the DataVox standard testing and deployment methods described in this SOW (for example, additional tests and cutovers)
- ⊗ Issues with provider equipment or service (for example, data or voice)



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- ⊗ Procurement and installation of racks, cabinets and battery backups
- ⊗ Any network consulting services to configure existing network devices outside the network devices provided within this SOW and the Bill of Materials (see **Appendix**).
- ⊗ Any network consulting services to implement QoS outside the network devices provided within this SOW and the Bill of Materials (see **Appendix**)
- ⊗ Any additions or modifications needed to the Microsoft Active Directory or Exchange environment to allow for interaction with the Collaboration Solution environment
- ⊗ Training classes not listed in this SOW
- ⊗ Documentation not listed in this SOW

**IMPORTANT:** Miscellaneous items may be required for completion during project execution which DataVox or the Customer did not foresee (for example, copper or fiber patch cables, power cords, and optics.) If miscellaneous items are required beyond what is included in the Bill of Materials, these items will be provided by the Customer or the items can be purchased from DataVox following the standard change management process.

### **4.0 Project Management Services**

This section describes the DataVox project management services. DataVox follows the Project Management Institute (PMI) project management life cycle which includes the following phases:

- Initiating
- Planning
- Executing
- Monitoring and Controlling
- Closing





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DataVox offers three (3) project management packages: Basic, Enhanced, and Premium. The following table lists the project management package that DataVox will provide.

<b>Project Management Package</b>		<b>Description</b>
	Basic	<ul style="list-style-type: none"> <li>• Facilitate kickoff meeting</li> <li>• Facilitate technical meeting</li> <li>• Project tracking and progress reporting</li> <li>• Facilitate wrap-up meeting</li> </ul>
X	Enhanced	<ul style="list-style-type: none"> <li>• Basic Project Management Services</li> <li>• Facilitate database meeting</li> <li>• MS Project scheduling</li> <li>• Lessons learned</li> </ul>
	Premium	<ul style="list-style-type: none"> <li>• Enhanced Project Management Services</li> <li>• Project management planning               <ul style="list-style-type: none"> <li>• Communication plan document</li> <li>• Risk and issue planning</li> <li>• Implementation plan document</li> <li>• Test plan document</li> </ul> </li> <li>• Implementation management workshop</li> </ul>

As part of the project management, DataVox will assign a business team to the project soon after official project award. The project team will include an account manager, lead systems engineer, project manager, and solution architect. Additional resources will be incorporated into the core team as required by the project.

The lead project engineer will incorporate additional engineering resources in the project as needed. All personnel will have the requisite skills necessary to fulfill the project scope. DataVox strives to keep the same project team intact throughout the project but reserves the right to make changes to the team as necessary. DataVox will notify the Customer of any changes made to the team resources.

## **5.0 Project Deliverables**

As part of this SOW, DataVox will deliver the following items:

- Project Timeline
- Provide results of the system testing
- Project wrap-up documentation, such as
  - System As Built
  - Configuration files
  - Visio diagram of the system DataVox installed as part of this SOW
  - Administration and maintenance guides



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### **NOTES:**

- Custom documents and runbooks are outside this scope of work.
- Documentation not explicitly listed in this SOW, can be provided at additional cost.
- All documents will be delivered electronically. It is the Customer's responsibility to make the necessary print copies.

## **6.0 Baseline Responsibilities**

This section provides a general list of DataVox and Customer responsibilities that are common to many services described in **Section 2.0**.

<b>Responsibility</b>	<b>DataVox</b>	<b>Fort Bend County Sheriff's Office</b>
Participate in the project meetings including, but not limited to kickoff, design, and close out	x	x
Review physical requirements with the Customer (for example, power, space, cooling, and network)	x	
Provide the Customer guidance in the completion of the necessary database information	x	
Receive, inventory, stage, and preconfigure equipment at DataVox prior to deployment	x	
Provide access to the network and available telephony and network documentation to facilitate the project objectives		x
Provide access to the Customer's technical team to collect information and answer questions about the current network and to define any business requirements that will impact the configuration of the new equipment within this SOW		x
Provide any existing IP addressing and configuration standards used in the network		x
Approve the project plan		x
Provides adequate space, power and cooling based on the recommendations of DataVox		x
Provide space for receipt of project equipment at installation sites		x
Security of project equipment after it is delivered to the customer's site		x
Provide any necessary asset tagging		x
Providing adequate workspace for the DataVox project team while they are onsite at the Customer's facility		x
Sign off on the system design prior to staging of equipment		x



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<b>Responsibility</b>	<b>DataVox</b>	<b>Fort Bend County Sheriff's Office</b>
Allow unrestricted access to DataVox personnel to equipment included in the Bill of Materials as required to configure and troubleshoot until the Customer takes ownership of the systems		x
Allow appropriate remote access to equipment listed in the Bill of Materials until the Customer takes ownership of the systems. The remote access methods must allow connectivity for all necessary protocols and ports needed in order for DataVox to program and troubleshoot remotely		x

### **6.1 Problems with the Customer's Legacy Equipment**

VPN networks are inherently unreliable due to the inability to control the network nodes and lack of congestion management. If there are issues with a system connected over a VPN and DataVox determines this to be the root cause of an issue, any labor and/or materials required to fix the problem will be billable unless otherwise stated by DataVox. Dedicated links are suggested for any connections that need to support mission critical or real-time traffic.

Equipment that has the potential to interfere with the operation of equipment included in the Bill of Materials must be configured to allow all traffic as required to configure and/or troubleshoot. If the equipment sold by DataVox works properly when these systems are bypassed either by configuration or physical means, it is the customer's responsibility to configure and troubleshoot their equipment in order for the system to work properly. DataVox will make a reasonable effort to assist. However, this intent to assist does not imply ownership of the issue by DataVox.

Problems that are due to the customer's legacy equipment are the Customer's sole responsibility. If the issue must be resolved by DataVox, any labor and/or materials will be billable unless otherwise stated by DataVox.

### **6.2 Changes to the Customer's Existing Network Environment**

DataVox assumes no responsibility for the configuration of the Customer's existing wired or wireless network environments. DataVox will provide network design recommendations consistent with those used to configure the network devices listed in the Bill of Materials for this SOW. It is the Customer's responsibilities to configure existing network devices using the provided design recommendations.

**IMPORTANT:** Network consulting services to implement the network design recommendations on existing network devices are available. These services are considered billable and outside the scope of work.

## **7.0 Completion Criteria**

Per scope of work, the services will be considered complete when:



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- The services specified in **Section 2.0** are completed
- The system testing is completed
- Project deliverables were provided





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**8.0 Payment**

This is a fixed cost contract based on the criteria and assumptions in this scope of work. For detailed cost information, see the Bill of Materials in the appendix. Invoicing will occur according to the following table subject to final credit approval.

<b>SubTotal</b>	\$299,952.07
<b>Tax</b>	\$0.00
<b>Shipping</b>	\$0.00
<b>Grand Total</b>	\$299,952.07
<b>Deposit Required</b>	\$0.00

**9.0 Change Management Process**

Either DataVox or the Customer may request a change to this SOW by issuing a Change Request in the agreed form. After a Change Request is agreed in writing by DataVox and the Customer, the change will become effective. For the purposes of the Change Request, written agreement can be communicated by email, fax, or electronic signature, provided that it is made clear that both DataVox and the Customer have agreed on the same Change Request document.



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### Terms and Conditions

The Texas Department of Information Resources (DIR) terms and conditions shall govern the execution of the DataVox contract with the Customer. To view a copy of the *DIR Standard Terms and Conditions for Product and Related Services Contracts*, refer to the DataVox corporate Website DIR page.

<https://www.datavox.net/texas-dir/>

On the DIR page, click the Contract Number of the appropriate product.

# CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.  
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

## OFFICE USE ONLY CERTIFICATION OF FILING

**1 Name of business entity filing form, and the city, state and country of the business entity's place of business.**

DataVox Inc.  
Houston, TX United States

Certificate Number:  
2018-426877

Date Filed:  
11/19/2018

**2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.**

Fort Bend County

Date Acknowledged:  
11/27/2018

**3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.**

14289  
DIR-TSO-4167 Cisco hardware, software, and services

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary

**5 Check only if there is NO Interested Party.**



**6 UNSWORN DECLARATION**

My name is \_\_\_\_\_, and my date of birth is \_\_\_\_\_.

My address is \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.  
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in \_\_\_\_\_ County, State of \_\_\_\_\_, on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.  
(month) (year)

\_\_\_\_\_  
Signature of authorized agent of contracting business entity  
(Declarant)