

Fiber Hubs

Proposal

Prepared for: New Braunfels Utilities

Presented on: 9/11/2026

Version

Quote # DVXQ36279-06





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New Braunfels Utilities Fiber Hubs SOW

Revision History

Revision	Date	Name	Description of Change
Version 1	July 9, 2026	Paul Yau	Initial Draft

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1.0 Executive Summary

New Braunfels Utilities is deploying a redundant fiber-ring network that interconnects five fiber hub sites — Loop 337, Comal, Rio, Sherrif's Posse, and Gruene — with the Headquarters (HQ) and Backup Operations Center (BOC) serving as the two independent Internet exit points for the ring. This Scope of Work covers the design, configuration, and implementation of the ruggedized Cisco Catalyst industrial switching at the five fiber hub sites.

Each fiber hub connects into the redundant fiber ring so that a fiber cut or a single-site failure does not isolate the remaining sites. To preserve the security posture required for utility operations, each hub carries three physically separate network segments — Business, Electric, and Water. Only the Business segment has a path toward the HQ and BOC Internet exits; the Electric and Water segments remain air-gapped in accordance with the SCADA Purdue reference model. DataVox will provide the equipment identified in the Bill of Materials and the professional services required to install, configure, and validate the switching at each of the five fiber hub sites.

1.1 Solution Summary

DataVox is proposing ruggedized Cisco Catalyst IE9300 series industrial switches at each of the five fiber hub sites. The five hubs are configured identically for consistency, sparing, and operational simplicity, and each hub connects to the redundant fiber ring over 10G industrial single-mode optics.

- Fiber Hub Sites (5) : Loop 337, Comal, Rio, Sherrif's Posse, and Gruene, each equipped identically.
- Ring / Aggregation : two Cisco Catalyst IE-9320-22S2C4X-E switches per hub (24x GE SFP downlinks with 4x 10G uplinks) providing redundant fiber-ring connectivity and segment aggregation.
- Access / PoE : one Cisco Catalyst IE-9310-16P8S4X-E switch per hub (16x GE PoE+ and 8x GE SFP with 4x 10G uplinks) for powered field devices and copper/fiber access.
- Fiber-Ring Optics : twelve 10GBASE-LR industrial SFP modules per hub for the redundant 10G ring uplinks, plus 1G copper (GLC-TE) and 100BASE-FX rugged (GLC-FE-100FX-RGD) SFPs for field connectivity.
- Segmentation : each hub carries the Business, Electric, and Water segments; the Electric and Water segments are air-gapped with no path to the Internet, consistent with the SCADA Purdue model.
- Management & Licensing : Cisco DNA Essentials (3-year term) and zero-touch Plug-and-Play provisioning across all hub switches.

1.2 Primary Project Contacts

The table lists the primary DataVox and New Braunfels Utilities contacts for this project.

DataVox		New Braunfels Utilities	
Name/Role	Contact Information	Name/Role	Contact Information

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Jonathan Montoya / Account Manager	Phone: 713-881-7081 Email: jonathanmo@datavox.net	Tim Brown	Phone: 830-629-8400 Email: tbrown@nbutexas.com
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2.0 In-Scope Services

This Scope of Work ("SOW") defines the services that DataVox will provide New Braunfels Utilities and the pricing for these services. DataVox has developed an initial architecture plan and design from the scoping discussions with New Braunfels Utilities. This Section lists the in-scope services that DataVox will provide New Braunfels Utilities at the following locations:

Location	Address
Loop 337 Substation	3087 Loop 337, New Braunfels, TX 78130
Gruene WWTP (Wastewater Treatment Plant)	322 Loop 337, New Braunfels, TX 78130
Comal Substation	154 Fredericksburg Rd, New Braunfels, TX 78130
Sherriff's Posse Substation	3955 S IH 35, , New Braunfels, TX 78130
Rio Lift Station	1901 Kuehler Ave, New Braunfels, TX 78130

2.1 Project Initiation and Planning Phase

2.1.1 Project Initiation and Planning

- Gather information for all network devices related to the project
- Review the finalize BoM
- Inventory equipment and verify basic operation: Power on all equipment, check diagnostics, update software and enable licensing
- Stage and build out any necessary hardware (for example module power supplies, fans or supervisors)
- Identify tasks and estimated efforts to finalize a project plan

2.2 Project Execution Phase

2.2.1 Fiber Hub Sites — Cisco Catalyst IE9300 (Ruggedized Industrial)

- The following installation and configuration tasks are performed at each of the five fiber hub sites: Loop 337, Comal, Rio, Sherrif's Posse, and Gruene.
- Mount and install the Cisco Catalyst IE-9310 and the two Cisco Catalyst IE-9320 switches in the provided cabinet or enclosure at each hub.
- Install and connect the ruggedized AC/DC power supplies and verify redundant power where provided.
- Install the 10G industrial optics (SFP-10G-LR10-I) and the 1G (GLC-TE) and 100BASE-FX (GLC-FE-100FX-RGD) SFP modules.

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- Perform base configuration (hostname, management IP, SSH, AAA, SNMP, syslog, NTP) and apply Cisco DNA Essentials licensing via zero-touch Plug-and-Play.
- Apply baseline device hardening and access control lists per NBU standards.

2.2.2 Redundant Fiber Ring

- Configure the 10G fiber-ring uplinks between adjacent hub sites and toward the HQ and BOC exit points.
- Configure ring resiliency and loop protection (e.g., Resilient Ethernet Protocol or spanning tree) so the ring survives a single fiber or node failure.
- Verify ring failover and recovery to the design target.

2.2.3 Network Segmentation (Business, Electric, Water)

- Create the Business, Electric, and Water segment VLANs at each hub.
- Configure the Business segment to reach the HQ and BOC Internet exit points over the ring.
- Configure the Electric and Water segments as physically and logically separated, air-gapped networks with no routed path to the Internet, consistent with the SCADA Purdue reference model.
- Configure inter-hub segment transport so each segment remains isolated end to end across the ring.

2.2.4 Testing and Validation

- Verify switch reachability, licensing, and management at all five hubs.
- Verify redundant fiber-ring failover and recovery.
- Verify the physical and logical separation and air-gap of the Electric and Water segments.
- Verify Business segment egress toward the HQ and BOC Internet exits.

2.3 Project Deliverables

Each in-scope phase has specific deliverables attached.

As part of this SOW the following deliverables will be developed throughout the project with the involvement of New Braunfels Utilities's IT team.

- **Project Initiation and Planning** – This includes the project plan and timeline.
- **Project Execution** – This includes results of the system testing.
- **Project Knowledge Transfer and Closing** – This includes project wrap-up documentation such as: as-built files, configuration files, Visio Diagram(s), and administration and maintenance guides.

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 Customer's responsibility to make the necessary print copies.

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3.0 Project Management Services

This Section describes DataVox Project Management Services. DataVox follows the Project Management Institute (PMI) project management methodology, condensed into the following phases for the simplicity of presentation of phases in this SOW:

- Project Execution

DataVox offers three (3) Project Management Packages: Basic, Enhanced, and Premium. The following table lists the Project Management Package that DataVox will provide.

Project Management Package		Description
	Basic	• Notification of resource assignment and scheduling. • Provide equipment tracking and delivery notifications. • Provide documentation and project sign-off.
X	Enhanced	• Facilitate Kickoff Meeting. • Facilitate Technical Discovery Meeting(s). • Project planning using Microsoft Project. • Ongoing project tracking and progress reporting. • Provide documentation in a Project Wrap-Up Meeting.
	Premium	• Facilitate Kickoff Meeting. • Facilitate Technical Discovery Meeting(s). • Project planning using Microsoft Project. • Ongoing project tracking and progress reporting. • Provide a Communication and Implementation Plan. • Risk and issues planning. • Provide a Test Plan. • Provide documentation and review lessons learned in a Project Wrap-Up Meeting.

As part of the project management process, DataVox will assign a business team to the project soon after official project award. At a minimum, the project team will include an Account Manager, Lead Systems Engineer, Project Manager, and Solution Architect. The Project Manager will incorporate additional resources in the project as required by the project.

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 project resources.

4.0 Out-of-Scope Services

Changes to the initial agreed upon parameters are referred to as “out-of-scope.” Out-of-scope items require a written and signed Change Order to be processed and may be subject to additional charges. For more information regarding change orders, please refer to Section 8.0.

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Any service that is not explicitly listed as “In-Scope”, is considered to be out-of-scope for this engagement and includes but is not limited to:

- ⊗ Site inspection activities such as a comprehensive analysis of Customer facility’s power, cooling humidity, airborne contaminant, vibration levels, and determination of whether the data center’s raised floor has sufficient structural capability to accommodate the weight of newly installed equipment.
- ⊗ Environmental compliance or site preparation.
- ⊗ Application integration or integration of third-party products or peripherals not included with the provided project bill of materials.
- ⊗ Assembly of racks or other computer room site preparation.
- ⊗ Any configuration of New Braunfels Utilities’s existing equipment, unless specifically stated in the In-Scope section of this document.
- ⊗ Manage the process of coordination with the Customer’s telecommunications service provider to order services or make changes to existing services.
- ⊗ Training classes not listed in this SOW.
- ⊗ Documentation not listed in this SOW.
- ⊗ Installation, splicing, or termination of fiber-optic cabling or the fiber-ring transport between sites.
- ⊗ Civil, electrical, environmental, or enclosure/cabinet work at the hub sites (e.g., outdoor cabinets, grounding, HVAC, power provisioning).
- ⊗ Configuration, integration, or troubleshooting of SCADA/OT end devices (RTUs, PLCs, HMIs, meters) on the Electric and Water segments.
- ⊗ Configuration of the HQ and BOC sites, which are covered under separate scopes of work.
- ⊗ Hardwiring the IE switches.

IMPORTANT: Miscellaneous items may be required for completion during project execution (e.g., 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 Customer or the items can be purchased from DataVox following the standard change management process.

5.0 Assumptions and Responsibilities

5.1 DataVox Assumptions

This section lists the project assumptions:

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- DataVox will be given remote VPN access to New Braunfels Utilities network for the duration of this SOW.
- DataVox will be given access to New Braunfels Utilities's network while onsite from a DataVox provided laptop.
- UPS systems, network racks and high voltage electrical work are to be provided by third parties unless explicitly stated in Section 2.0.
- DataVox assumes no responsibility for the configuration of the Customer's existing infrastructure environments. DataVox will provide design recommendations consistent with those used to configure the infrastructure listed in the Bill of Materials for this SOW, however, it is Customer's responsibility to configure and troubleshoot their existing infrastructure in order for the solution to work properly using the provided design recommendations.
 - **IMPORTANT:** Network consulting services to implement existing infrastructure design recommendations are available. These services are considered billable and outside the scope of work.
- Unless agreed to in advance and explicitly stated in this SOW, Cutovers at each site will be flash cutovers (i.e. not a phased cutover) performed during weekday afterhours (after 5:00 PM CST) unless otherwise detailed within this SOW.
- If the project requires manufacturer entitlement for technical support services or software update/upgrade licensing, it is New Braunfels Utilities's responsibility to provide the necessary vendor contract information and access to the DataVox project team.
- This SOW covers the five fiber hub sites (Loop 337, Comal, Rio, Sherrif's Posse, and Gruene). The BOC is addressed under separate scopes of work.
- New Braunfels Utilities will provide the fiber-ring transport, fiber terminations, and any service-provider circuits between the hub sites, HQ, and BOC. DataVox will connect to the fiber terminations presented at each hub.
- New Braunfels Utilities will provide suitable, powered, and environmentally rated enclosures or cabinets at each hub for the ruggedized switches; industrial/outdoor mounting and environmental preparation are performed by others.
- The three network segments (Business, Electric, and Water) will be physically separated at each hub, and the Electric and Water segments will remain air-gapped with no routed path to the Internet, in accordance with the SCADA Purdue reference model.
- New Braunfels Utilities will provide IP addressing, VLAN, and routing standards for each segment prior to configuration.
- Configuration of SCADA end devices, RTUs, PLCs, HMIs, meters, and other operational-technology equipment on the Electric and Water segments is the responsibility of New Braunfels Utilities and/or its OT integrators and is not included in this SOW.

5.2 Customer Responsibilities

- Participate in project meetings including, but not limited to: Kickoff, Design and Wrap-Up Meetings.
- Complete any necessary database information.

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- Configure existing infrastructure using the provided design recommendations by DataVox, if recommended.
- Provide access to the network and existing customer documentation to facilitate project objectives.
- Provide access to Customer's technical team to collect information and answer questions about the current configuration and define any business requirements that will impact the configuration of any new equipment subject to this SOW.
- Provide any existing IP addressing and configuration standards used in the infrastructure.
- Approve the project plan.
- Provide adequate space, power, and cooling based on DataVox recommendations.
- Provide adequate storage of project equipment at the relevant installation sites.
- Provide adequate security of project equipment once delivered to the relevant installation site.
- Provide any necessary asset tagging.
- Provide adequate workspace for the DataVox project team while onsite at Customer's facility.
- Provide terminated fiber-optic connections at each hub for the ring uplinks and segment transport.
- Provide suitable powered, environmentally rated enclosures or cabinets and physical mounting at each hub.
- Provide IP addressing, VLAN, and routing standards for each of the three segments.
- Configure and maintain all SCADA/OT end devices on the air-gapped Electric and Water segments.
- Confirm and maintain the physical separation and air-gap requirements between the Business, Electric, and Water segments at each hub.
- Coordinate with certified electrician to hardwire the IE 9300 switches.

5.3 DataVox Responsibilities

- Participate in project meetings including, but not limited to: Kickoff, Design and Wrap-Up Meetings.
- Review physical requirements with Customer (e.g. power, space, cooling, and network).
- Provide Customer guidance in the completion of the necessary database information.
- Completion of all in-scope services and project management services as defined in Section 2.0 and 3.0, respectively.

6.0 Completion Criteria

The services provided for within this SOW will be considered complete when:

- The services specified in **Section 2.0** are complete,
- The system testing is complete.
- Project deliverables are provided to Customer.

6.1 Deliverables Acceptance

Unless multiple project milestones are designated within this SOW, upon project completion, DataVox will provide New Braunfels Utilities with a Delivery Acceptance Form that Customer shall sign and return

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to DataVox within thirty (30) days. If project milestones are created pursuant to this SOW, then a Delivery Acceptance Form will be required upon completion of each milestone. If Customer takes issue with the Delivery Acceptance Form, Customer shall inform DataVox within thirty (30) days of receipt of the same. Customer acknowledges and agrees that if it fails to provide the signed or fails to provide its rejection within the above-stated timeframe, DataVox will assume that all deliverables are considered accepted and shall continue with the next relevant phase.

7.0 Pricing and Payment Information

The price to complete this engagement is based on the criteria and assumptions provided within this SOW. Invoicing will occur according to the table below, subject to final credit approval.

7.1 Professional Services

The professional services will be provided on a fixed cost basis based on the criteria and assumptions in this scope of work. Changes to the scope of the project or price of the services will follow the change management process specified in Section 8.0

7.2 Project Summary Pricing

This table provides a summary of the costs associated with the project based on the criteria and assumptions in this scope of work.

SubTotal	\$291,262.76
Tax	\$0.00
Shipping	\$0.00
Grand Total	\$291,262.76
Deposit Required	\$0.00

7.3 Project Invoicing

Project invoicing will occur as follows, subject to final credit approval:

- The deposit listed above will be billed upon the execution of this SOW and will be due immediately. The deposit must be received by DataVox prior to any project equipment being ordered and Kickoff Meeting.
- All equipment will be billed upon delivery to either DataVox's facility for staging or Customer's location.
- The remaining project balance will be progress-billed as services are completed and equipment is delivered.
- All invoices, other than the project deposit, are due net 30 days from invoice date.

7.4 Pricing Adjustments

Due to industry-wide constraints and fluctuations, DataVox reserves the right to change the price of this proposal prior to execution of this SOW.

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8.0 Change Management Process

Either DataVox or the Customer may request a change to this SOW by executing a written change order signed by both DataVox and the Customer.

9.0 Termination

DataVox is committed to resolving any issues that Customer is experiencing with the equipment and services subject to this SOW.

Either party may terminate this Agreement for reasonable cause, after being afforded a thirty (30) day opportunity to cure.

If mutually agreed upon, both parties may terminate this Agreement for convenience at any time during the term of this Agreement. Customer shall be obligated to pay for any non-returnable equipment and services which have been rendered until such effective date of termination.

10.0 Terms and Conditions

Contract #DIR-CPO-5370, Contract #DIR-CPO-5347, and the Additional Terms and Conditions attached hereto and incorporated herein by reference as Exhibit A-1 and executed by DataVox and Customer, and DataVox Standard Terms and Conditions attached hereto and incorporated herein by reference as Exhibit A-2, as modified by the parties, shall govern the execution of this scope of work.

In the event of conflict between the documents, the Contract #DIR-CPO-5370 and Contract #DIR-CPO-5347 shall control over all other documents.

11.0 Notices

All notices required to be sent or given under this Agreement shall be sent in writing and shall be deemed duly given and effective (i) immediately, if delivered in person; (ii) the next business day, if delivered via electronic mail; (iii) if sent by registered mail, return receipt requested or first class postage prepaid, two (2) business days after deposit in the mail; or (iv) if sent by internationally recognized overnight delivery service, one (1) business day after delivery to a recognized overnight delivery service. In each case, notice must be addressed to the party entitled to receive the same at the address specified below:

If to Customer, then to:

Customer Name: _____

Attention: _____

Address: _____



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Email: _____

If to DataVox, then to

DataVox, Inc.

Attention: Greg Smith, Vice President of Sales

6650 W. Sam Houston Parkway S.

Houston, Texas 77072

Telephone: 713-881-7467

With a copy to:

Legal Department – DataVox

Attention: Anuja Deshpande, General Counsel

6650 W. Sam Houston Parkway S.

Houston, Texas 77072

Telephone: 713-881-7090

Email: legalnotices@datavox.net

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Acceptance of Scope of Work

The use of signatures on this Scope of Work is to ensure agreement by New Braunfels Utilities 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 New Braunfels Utilities, 263 E Main Plaza, New Braunfels, TX 78130 ("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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Approval Signatures

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

DataVox, Inc.

By: _____
(Signature)

Name: _____

Title: _____

Date: _____

New Braunfels Utilities

By: _____
(Signature)

Name: _____

Title: _____

Date: _____

Date: July 9, 2026 Technical validation provided by Paul Yau

Quote file name: DVXQ36792_5_Hubs_Switches_Implementation-New-Braunfels-Utilities-2026-07-09_rev1

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Expiration: 10/9/2026

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Part #	Description	DIR #	Qty	Unit Price	Ext. Price
Loop 337					
IE-9310-16P8S4X-E	IE9300 w/ 16x GE PoE+ & 8x GE SFP w/ 4x 10G SFP uplinks	DIR-CPO-5347	1	\$4,742.51	\$4,742.51
CON-SSSNT-IE9310ZX	SOLN SUPP 8X5XNBD IE9300 w 16x GE PoE+ and 8x GE SFP w 4x	DIR-CPO-5347	1	\$2,515.50	\$2,515.50
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	1	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	1	\$243.00	\$243.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	1	\$303.06	\$303.06
PWR-RGD-AC-DC-400	Higher PoE, 400W PSU for IE9300, 100-240VAC/100-250VDC	DIR-CPO-5347	1	\$1,087.81	\$1,087.81
IE93X0_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	1	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	1	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	1	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	1	\$0.00	\$0.00
IE-9320-22S2C4X-E	24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$12,863.53	\$25,727.06
CON-SSSNT-IE932CXE	SOLN SUPP 8X5XNBD 24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$6,822.00	\$13,644.00
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	2	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	2	\$243.00	\$486.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	2	\$303.06	\$606.12

Part #	Description	DIR #	Qty	Unit Price	Ext. Price
PWR-RGD-AC-DC-H	IE4010/5000 Hazloc Pwr Supply High AC/DC 85-264VAC/88-300VDC	DIR-CPO-5347	2	\$373.43	\$746.86
IE9300_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	2	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	2	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	2	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	2	\$0.00	\$0.00
SFP-10G-LR10-I-DVX	CISCO SFP-10G-LR10-I COMP XCVR TAA 10G-LR LC 1310NM 10KM SMF SFP+	DIR-CPO-5370	12	\$166.67	\$2,000.04
GLC-TE-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-TE TX SFP 100M RJ-45 DVX ONLY	DIR-CPO-5370	10	\$46.67	\$466.70
GLC-FE-100FX-RGD-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-FE-100FX-RGD FX SFP LC DVX ONLY	DIR-CPO-5370	5	\$33.33	\$166.65
Loop 337 SubTotal					\$52,735.31

Comal					
IE-9310-16P8S4X-E	IE9300 w/ 16x GE PoE+ & 8x GE SFP w/ 4x 10G SFP uplinks	DIR-CPO-5347	1	\$4,742.51	\$4,742.51
CON-SSSNT-IE9310ZX	SOLN SUPP 8X5XNBD IE9300 w 16x GE PoE+ and 8x GE SFP w 4x	DIR-CPO-5347	1	\$2,515.50	\$2,515.50
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	1	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	1	\$243.00	\$243.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	1	\$303.06	\$303.06
PWR-RGD-AC-DC-400	Higher PoE, 400W PSU for IE9300, 100-240VAC/100-250VDC	DIR-CPO-5347	1	\$1,087.81	\$1,087.81
IE93X0_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	1	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	1	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	1	\$0.00	\$0.00

Part #	Description	DIR #	Qty	Unit Price	Ext. Price
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	1	\$0.00	\$0.00
IE-9320-22S2C4X-E	24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$12,863.53	\$25,727.06
CON-SSSNT-IE932CXE	SOLN SUPP 8X5XNBD 24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$6,822.00	\$13,644.00
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	2	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	2	\$243.00	\$486.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	2	\$303.06	\$606.12
PWR-RGD-AC-DC-H	IE4010/5000 Hazloc Pwr Supply High AC/DC 85-264VAC/88-300VDC	DIR-CPO-5347	2	\$373.43	\$746.86
IE9300_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	2	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	2	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	2	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	2	\$0.00	\$0.00
SFP-10G-LR10-I-DVX	CISCO SFP-10G-LR10-I COMP XCVR TAA 10G-LR LC 1310NM 10KM SMF SFP+	DIR-CPO-5370	12	\$166.67	\$2,000.04
GLC-TE-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-TE TX SFP 100M RJ-45 DVX ONLY	DIR-CPO-5370	10	\$46.67	\$466.70
GLC-FE-100FX-RGD-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-FE-100FX-RGD FX SFP LC DVX ONLY	DIR-CPO-5370	5	\$33.33	\$166.65
				Comal SubTotal	\$52,735.31

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Part #	Description	DIR #	Qty	Unit Price	Ext. Price
IE-9310-16P8S4X-E	IE9300 w/ 16x GE PoE+ & 8x GE SFP w/ 4x 10G SFP uplinks	DIR-CPO-5347	1	\$4,742.51	\$4,742.51
CON-SSSNT-IE9310ZX	SOLN SUPP 8X5XNBD IE9300 w 16x GE PoE+ and 8x GE SFP w 4x	DIR-CPO-5347	1	\$2,515.50	\$2,515.50
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	1	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	1	\$243.00	\$243.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	1	\$303.06	\$303.06
PWR-RGD-AC-DC-400	Higher PoE, 400W PSU for IE9300, 100-240VAC/100-250VDC	DIR-CPO-5347	1	\$1,087.81	\$1,087.81
IE93X0_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	1	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	1	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	1	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	1	\$0.00	\$0.00
IE-9320-22S2C4X-E	24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$12,863.53	\$25,727.06
CON-SSSNT-IE932CXE	SOLN SUPP 8X5XNBD 24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$6,822.00	\$13,644.00
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	2	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	2	\$243.00	\$486.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	2	\$303.06	\$606.12
PWR-RGD-AC-DC-H	IE4010/5000 Hazloc Pwr Supply High AC/DC 85-264VAC/88-300VDC	DIR-CPO-5347	2	\$373.43	\$746.86
IE9300_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	2	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	2	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	2	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	2	\$0.00	\$0.00

Part #	Description	DIR #	Qty	Unit Price	Ext. Price
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	2	\$0.00	\$0.00
SFP-10G-LR10-I-DVX	CISCO SFP-10G-LR10-I COMP XCVR TAA 10G-LR LC 1310NM 10KM SMF SFP+	DIR-CPO-5370	12	\$166.67	\$2,000.04
GLC-TE-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-TE TX SFP 100M RJ-45 DVX ONLY	DIR-CPO-5370	10	\$46.67	\$466.70
GLC-FE-100FX-RGD-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-FE-100FX-RGD FX SFP LC DVX ONLY	DIR-CPO-5370	5	\$33.33	\$166.65
				Rio SubTotal	\$52,735.31

Sherrif's Posse					
IE-9310-16P8S4X-E	IE9300 w/ 16x GE PoE+ & 8x GE SFP w/ 4x 10G SFP uplinks	DIR-CPO-5347	1	\$4,742.51	\$4,742.51
CON-SSSNT-IE9310ZX	SOLN SUPP 8X5XNBD IE9300 w 16x GE PoE+ and 8x GE SFP w 4x	DIR-CPO-5347	1	\$2,515.50	\$2,515.50
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	1	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	1	\$243.00	\$243.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	1	\$303.06	\$303.06
PWR-RGD-AC-DC-400	Higher PoE, 400W PSU for IE9300, 100-240VAC/100-250VDC	DIR-CPO-5347	1	\$1,087.81	\$1,087.81
IE93X0_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	1	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	1	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	1	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	1	\$0.00	\$0.00
IE-9320-22S2C4X-E	24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$12,863.53	\$25,727.06

Part #	Description	DIR #	Qty	Unit Price	Ext. Price
CON-SSSNT-IE932CXE	SOLN SUPP 8X5XNBD 24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$6,822.00	\$13,644.00
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	2	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	2	\$243.00	\$486.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	2	\$303.06	\$606.12
PWR-RGD-AC-DC-H	IE4010/5000 Hazloc Pwr Supply High AC/DC 85-264VAC/88-300VDC	DIR-CPO-5347	2	\$373.43	\$746.86
IE9300_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	2	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	2	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	2	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	2	\$0.00	\$0.00
SFP-10G-LR10-I-DVX	CISCO SFP-10G-LR10-I COMP XCVR TAA 10G-LR LC 1310NM 10KM SMF SFP+	DIR-CPO-5370	12	\$166.67	\$2,000.04
GLC-TE-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-TE TX SFP 100M RJ-45 DVX ONLY	DIR-CPO-5370	10	\$46.67	\$466.70
GLC-FE-100FX-RGD-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-FE-100FX-RGD FX SFP LC DVX ONLY	DIR-CPO-5370	5	\$33.33	\$166.65
				Sherrif's Posse SubTotal	\$52,735.31

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IE-9310-16P8S4X-E	IE9300 w/ 16x GE PoE+ & 8x GE SFP w/ 4x 10G SFP uplinks	DIR-CPO-5347	1	\$4,742.51	\$4,742.51
CON-SSSNT-IE9310ZX	SOLN SUPP 8X5XNBD IE9300 w 16x GE PoE+ and 8x GE SFP w 4x	DIR-CPO-5347	1	\$2,515.50	\$2,515.50
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	1	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	1	\$243.00	\$243.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	1	\$303.06	\$303.06

Part #	Description	DIR #	Qty	Unit Price	Ext. Price
PWR-RGD-AC-DC-400	Higher PoE, 400W PSU for IE9300, 100-240VAC/100-250VDC	DIR-CPO-5347	1	\$1,087.81	\$1,087.81
IE93X0_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	1	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	1	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	1	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	1	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	1	\$0.00	\$0.00
IE-9320-22S2C4X-E	24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$12,863.53	\$25,727.06
CON-SSSNT-IE932CXE	SOLN SUPP 8X5XNBD 24 Port SFP Downlinks with 4 10G Uplinks	DIR-CPO-5347	2	\$6,822.00	\$13,644.00
IE9300-DNA-E	Cisco DNA Essentials license for IE9300 Series	DIR-CPO-5347	2	\$0.00	\$0.00
CON-SSTCM-IE93000D	SOLN SUPP SW SUB Cisco DNA Essentials license for IE9300	DIR-CPO-5347	2	\$243.00	\$486.00
IE9300-DNA-E-3Y	IE 9300 DNA Essentials, 3 Year Term license	DIR-CPO-5347	2	\$303.06	\$606.12
PWR-RGD-AC-DC-H	IE4010/5000 Hazloc Pwr Supply High AC/DC 85-264VAC/88-300VDC	DIR-CPO-5347	2	\$373.43	\$746.86
IE9300_SW	Software for Catalyst IE9300 rugged series	DIR-CPO-5347	2	\$0.00	\$0.00
RPS-IE5000-COVER	Power Supply Blank for IE5000/IE9300	DIR-CPO-5347	2	\$0.00	\$0.00
NETWORK-PNP-LIC	Network Plug-n-Play Connect for zero-touch device deployment	DIR-CPO-5347	2	\$0.00	\$0.00
DIGITAL-DL-CODE	Digital Download Code for Software License	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-UTILITIES	Utilities Industry Solutions; For tracking only.	DIR-CPO-5347	2	\$0.00	\$0.00
IOT-TRANS-OTHER	Not related to an IoT Transportation Solution; Tracking only	DIR-CPO-5347	2	\$0.00	\$0.00
SFP-10G-LR10-I-DVX	CISCO SFP-10G-LR10-I COMP XCVR TAA 10G-LR LC 1310NM 10KM SMF SFP+	DIR-CPO-5370	12	\$166.67	\$2,000.04
GLC-TE-DVX	DATAVOX OPTICS CISCO COMP SFP GLC-TE TX SFP 100M RJ-45 DVX ONLY	DIR-CPO-5370	10	\$46.67	\$466.70

Part #	Description	DIR #	Qty	Unit Price	Ext. Price
GLC-FE-100FX-RGD-DV X	DATAVOX OPTICS CISCO COMP SFP GLC-FE-100FX-RGD FX SFP LC DVX ONLY	DIR-CPO-5370	5	\$33.33	\$166.65
				Gruene SubTotal	\$52,735.31

DataVox Professional Services					
DVX-EE-PROSVC-STD	DataVox Professional Services	DIR-CPO-5347		\$27,586.21	\$27,586.21