TECHNICAL PROPOSAL FOR ALABAMA COMMUNITY COLLEGE SYSTEM

JOINT PURCHASING AGREEMENT

Bid #: ACCS-2019-01

Due: Feb 15, 2019

Submitted by: Lockstep Technology Group

Extreme™
Customer-Driven Networking

Nutanix™
LETTER OF TRANSMITTAL

February 15, 2019
Evaluation Committee
Alabama Community College System
Joint Purchase Agreement Initiative
135 South Union Street Suite#135
Montgomery, Alabama 36104

RE: Joint Purchasing Agreement Bid #: ACCS-2019-01

To Whom it May Concern,

On behalf of Lockstep Technology Group, it is our pleasure to present the enclosed response to Alabama Community College System (ACCS) RFP for Joint Purchasing Agreement Bid #: ACCS-2019-01.

Founded in 2008, Lockstep Technology Group is an IT consulting firm that partners with organizations in planning, developing and implementing enterprise-class technology solutions. For over 10 years Lockstep has been a trusted IT Consulting company with extensive engineering and technical capability. Lockstep has ten solid years designing, migrating/implementing, securing and supporting large-scale networking deployments in the state/local government and education spaces. By leveraging proven designs and over 60 years of combined networking experience Lockstep has helped many public sector entities realize the power of solid designs and smart implementations through our partnerships. The networks Lockstep positions are stable, secure and provide the needed visibility for troubleshooting, maintenance, and security.

The enclosed proposal for ACCS takes into consideration all the requirements and the vision set forth by ACCS and acknowledges the JPA Addendum 1 that states the bid will be opened on February 19, 2019 instead of February 18, 2019 as originally published. We are partnering with Extreme Networks to provide software-driven solutions from the enterprise edge to the cloud that are agile, adaptive, and secure to enable digital transformation. This includes network infrastructure, wireless and security solutions. In addition, we are partnering with Nutanix to provide software-based hyperconverged infrastructure (HCI) to deliver a full infrastructure stack that integrates compute, virtualization, storage, networking and security to power any application at any scale.

We appreciate the time invested in review of this response and look forward to a long, successful partnership between Alabama Community College System and Lockstep Technology Group. As I am the authorized representative for Lockstep Technology Group, please feel free to contact me
at either 404-271-1138 or cvanpelt@lockstepgroup.com should any questions arise regarding our submission.

Sincerely,

Charlie Van Pelt
Vice President, Sales
Lockstep Technology Group
This will be published for participating agencies to streamline the vendor contact process. Vendors may not have all of these departments/positions/titles. Please complete this information as accurately as possible. If the information below changes, please send a revised version of this page to JPA_Notification@accs.edu.

Vendor Name: Wescott Technologies, LLC dba Lockstep Technology Group Last Updated: 2/14/2019

JPA Website Address: https://www.accs.edu/index.cfm/vendors/active-rfps-rfbs-or-rfqs/2019-joint-purchase-agreement/

<table>
<thead>
<tr>
<th>Department</th>
<th>Name(s)</th>
<th>Phone</th>
<th>E-mail Address(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Contract Executive(s)</td>
<td>Charlie Van Pelt</td>
<td>404-271-1138</td>
<td><a href="mailto:cvanpelt@lockstepgroup.com">cvanpelt@lockstepgroup.com</a></td>
</tr>
<tr>
<td>Sr. Account/Sales Manager(s)</td>
<td>Charlie Van Pelt</td>
<td>404-271-1138</td>
<td><a href="mailto:cvanpelt@lockstepgroup.com">cvanpelt@lockstepgroup.com</a></td>
</tr>
<tr>
<td>Account/Sales Manager(s)</td>
<td>Liz Jackson</td>
<td>678-438-3790</td>
<td><a href="mailto:ljackson@lockstepgroup.com">ljackson@lockstepgroup.com</a></td>
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<tr>
<td>Technical Support</td>
<td>Ken Dreon</td>
<td>404-558-0994</td>
<td><a href="mailto:kdreon@lockstepgroup.com">kdreon@lockstepgroup.com</a></td>
</tr>
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</table>

BID INFORMATION INDEX

Please complete the following form to assist the Evaluation Committee in finding specific information as related to your bid response.

<table>
<thead>
<tr>
<th>Section</th>
<th>Status</th>
<th>Page Number(s)</th>
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<tbody>
<tr>
<td>Product and Services Delivery</td>
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<tr>
<td>Geographic Coverage</td>
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<tr>
<td>Availability of Technical Support</td>
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<td>Problem Resolution</td>
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<td>Customer Satisfaction</td>
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<td>Value Added Services</td>
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<tr>
<td>Reporting</td>
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<tr>
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<td>Primary Account Representative</td>
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<tr>
<td>References</td>
<td>Completed</td>
<td>53</td>
</tr>
<tr>
<td>Pricing Level and Guarantee</td>
<td>Completed</td>
<td>58</td>
</tr>
</tbody>
</table>
# Table of Contents

**Letter of Transmittal** .................................................................................................................... 2

**Evaluation Submission Form** .................................................................................................... 4

**Response to General Requirements and Specifications** ................................................................. 6
  - Product and Services Delivery Overview ....................................................................................... 10
  - Geographic Coverage .................................................................................................................... 14
  - Problem Resolution ...................................................................................................................... 16
  - Customer Satisfaction ................................................................................................................... 17
  - Value Added Services .................................................................................................................. 18
  - Reporting ..................................................................................................................................... 46
  - Electronic Commerce ................................................................................................................... 48
  - Breadth of Offering ...................................................................................................................... 50
  - Primary Account Representative ................................................................................................. 52
  - References ................................................................................................................................... 53
  - Pricing Level and Guarantee ........................................................................................................ 58
  - Technical Support ......................................................................................................................... 60
  - Website Maintenance .................................................................................................................... 60
  - Vendor Disclosure Statement ...................................................................................................... 62
RESPONSE TO GENERAL REQUIREMENTS AND SPECIFICATIONS

CERTIFICATE

This is to certify that

Extreme Networks, Inc.
HQ
6480 Via Del Oro
San Jose, CA 95119
United States of America

with the organizational units/sites as listed in the annex

has implemented and maintains a Quality Management System.

Scope:
Hardware and software design, development and service of network products from the data center to the unified wired/wireless edge as well as software driven networking (SON), security, application analytics and unified network management and control.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 • 2015

Certificate registration no. 10014949 QM15
Date of original certification 2010-03-23
Date of revision 2018-11-02
Date of certification 2017-11-17
Valid until 2020-11-16

DQS Inc.
Brad McGuire
Managing Director

Accredited Body: DQS Inc., 1130 West Lake Cook Road, Suite 340, Buffalo Grove, IL 60089 USA
Annex to certificate
Registration No. 10014949 QM15

Extreme Networks, Inc.
HQ
6480 Via Del Oso
San Jose, CA 95119
United States of America

Location
10014949
Extreme Networks, Inc.
6480 Via Del Oso
San Jose, CA 95119
United States of America

Scope
Hardware and software design, development and service of network products from the data center to the unified wired/wireless edge as well as software defined networking (SDN), security, application analytics and unified network management and control.

10014950
Extreme Networks, Inc.
2121 RDU Center Drive
Morrisville, NC 27560
United States of America

Hardware and software design, development and service of network products from the data center to the unified wired/wireless edge as well as software defined networking (SDN), security, application analytics and unified network management and control.

10014951
Extreme Networks, Inc.
Temple Steps, 8th Floor, 134-137
Anna Salai, Saidapet
Chennai, 600015
India

Software design, development and services of network products from the data center to the unified wired/wireless edge as well as software defined networking (SDN), security, application analytics and unified network management and control.

10014952
Extreme Networks, Inc.
9 Northeastern Boulevard
Salem, NH 03079
United States of America

Hardware and software design, development and service of network products from the data center to the unified wired/wireless edge as well as software defined networking (SDN), security, application analytics and unified network management and control.

10014953
Extreme Networks, Inc.
55 Commerce Valley Drive West
Suite 300
Thornhill, ON L3T 7V9
Canada

Hardware and software design, development and service of network products from the data center to the unified wired/wireless edge as well as software defined networking (SDN), security, application analytics and unified network management and control.

This annex (edition) is only valid in connection with the above-mentioned certificate.
Annex to certificate
Registration No. 10014949 QM15

**Extreme Networks, Inc.**
HQ
6480 Via Del Oro
San Jose, CA 95119
United States of America

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<td>10014964</td>
<td>Extreme Networks, Inc. Shannon Industrial Estate Co. Clare Ireland</td>
</tr>
<tr>
<td>10014995</td>
<td>Extreme Networks, Inc. C/O Expeditors Unit 2 Rosepark Shannon Shannon Ireland</td>
</tr>
<tr>
<td>10015504</td>
<td>Extreme Networks, India AMR Tech Park 11, #23 &amp; 24 Hosastra Hosur Main Road Bangalore - 560068 Karnataka India</td>
</tr>
<tr>
<td>10015507</td>
<td>Extreme Networks, India RMZ Eco Space, Campus 38, 2nd Floor, Sarjapur, Outer Ring Road Devanahalli Hall, Varthur Hobli Bangalore- 560103 Karnataka India</td>
</tr>
</tbody>
</table>

This annex (edition...) is only valid in connection with the above-mentioned certificate.
CERTIFICATE OF REGISTRATION

INFORMATION SECURITY MANAGEMENT SYSTEM – ISO/IEC 27001:2013

Coalfire ISO, Inc. certifies that the following organization operates an Information Security Management System (ISMS) that conforms to the requirements of ISO/IEC 27001:2013 per the scope and boundaries statement detailed below:

<table>
<thead>
<tr>
<th>Company</th>
<th>Nutanix, Inc.</th>
<th>Address</th>
<th>State</th>
<th>California</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>181 Metro Drive</td>
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<td>San Jose, CA 95110</td>
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SCOPE

The scope of this ISO/IEC 27001:2013 certification and the information security management system (ISMS) is limited to Nutanix corporate headquarters and the physical locations noted below in accordance with the Nutanix Statement of Applicability. This certification is aligned to ISO/IEC 27017:2015 and ISO/IEC 27018:2014 and as such the ISMS preserves the confidentiality, integrity, availability, and privacy of Nutanix information technology environments. This ISMS encompasses the Nutanix Xi Cloud Services offerings inclusive of Leap, Beam, Epoch, and Frame, as well as the Nutanix enterprise IT environment on which Nutanix builds products and supports customers.

<table>
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<th>Statement of Applicability:</th>
<th>Version: 2.0</th>
<th>Date: September 21, 2018</th>
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<tr>
<td>Original Registration Date:</td>
<td></td>
<td></td>
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<tr>
<td>June 29, 2018</td>
<td></td>
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</tr>
<tr>
<td>On behalf of Coalfire ISO, Inc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Print Name: Dixon Wright</td>
<td></td>
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</tr>
</tbody>
</table>

Dixon Wright

Director of Coalfire ISO

This certificate relates to the Information Security Management System, and not to the products or services of the certified organization. The certification reference number, the mark of the certification body and/or the accreditation mark may not be shown on products or services, promotional materials, advertisements, or other documents showing or referring to this certificate, the trademark of the certification body, or the accreditation mark, must comply with the intention of the certificate.
PRODUCT AND SERVICES DELIVERY OVERVIEW

ALJPA Requirement:

Vendors must describe their ability to provide professional services, technology equipment including related products and support services to the System and the various authorized entities.

Lockstep Response:

Lockstep has multiple T&M type of contracts to provide professional services ranging from ad-hoc hourly support to retainer models. When higher service levels are needed, we have retainer models that guarantee as low as 1-hour response times. Our ad-hoc T&M service model is primarily how we work with other colleges either through a reduced cost, pre-purchased block of time or just ad-hoc billing at our published rates. Our contracts are custom, and the service levels can be adjusted to meet our customer’s needs for operation.

T&M Retainer – Engineering services on an ongoing, as-needed basis to be completed over a set course of time; usually a minimum of one year. Hours will be invoiced monthly for time used. Hourly rate is determined by the number of hours purchased. Hours are used on a scheduled basis, scheduled through email or phone, and during normal business hours. Out of hours or emergency use are 2 hours.

T&M Project – Engineering services for a specific job or project to be invoiced monthly for time used. Hourly rate is determined by the number of hours purchased and is estimated to include all work associated with the specified job or project.

T&M Ad-Hoc – Engineering services to be used outside of any agreement or project. Ad-hoc is generally used for emergency situations in which the customer does not have hours to use with the contractor. Hourly rate is based on the severity of the situation and whether services are rendered after hours. T&M Ad-hoc time is invoiced monthly. Hours are used on a scheduled basis, scheduled through email or phone, and during normal business hours. Out of hours or emergency use are 2 hours.

A typical SLA on a T&M contract is 4 hours to respond. However, if required, we can build a custom contract with 2-hour response time.

All time is tracked with our central ticketing system. The ticketing system is maintained by our 24X7 NOC who serves as the first level of troubleshooting. If a ticket is escalated by the NOC it is assigned to our engineering pool. Lockstep maintains escalation engineers for higher level issues.
Most support is remote but onsite is available if required. Remote support only incurs the time the engineers spend working on the issue. Onsite support is billed for the trip one-way and then the engineers time onsite.

*We will track time spent serving ACCS through use of a Project Manager (PM) who will work with the engineering team to schedule time at ACCS. Time Detail Reports (TDR) are also used to show ACCS the number of hours worked, and what was completed for a requested period.

a. Planning

Lockstep believes that project success requires strong planning, thus placing top priority on the planning phase of any project. The Lockstep approach for any project is to apply an “engineering first” methodology towards defining the proper foundation at time of planning phase. By consulting with our customers in a technology agnostic fashion, Lockstep ensures the following are understood before making consultative recommendations for the definition and progression of the project:

- The business driver(s) for the project/implementation.
- Who are the key stakeholders sponsoring the project?
- What technologies are being addressed as part of the project?
- How many systems or people are affected by the pending implementation?
- What staffing resources are needed from Lockstep to support the project?
- What are the implementation timeframes?
- What is the desired state to signify the successful completion of the project?
- Creation of a success criteria.
- Outline the change management requirements in the event changes are required.
- Define ongoing support requirements or required customer training/turnover.
- Define documentation/procedure development expectations.

The “Lockstep Process” assigns a Project Manager and a lead engineering resource to each project to ensure the technical and management aspects are covered from the beginning. Planning is performed in conjunction with multiple engineering and business liaison resources depending on the skillset(s) required and the extent of the project.

b. Project Coordination

Lockstep believes that Project Coordination requires resource allocation, communication and documentation. Prior to inception of the project, a proper, well defined project path will be documented. This document will outline assumptions, resources and success criteria. Communication methodology as well as expectations on timing, approach and desired state are clearly defined and agreed upon.

For projects performed by Lockstep, the central point of contact is the project manager (when the project is defined) and the account manager. The account manager is the liaison assigned to FCS who is responsible for gathering the initial requirements either through ongoing consulting/planning or through customer request. Once the need/requirement is identified as a
project, a project manager is coupled with a delivery engineer who has overall responsibility for the technical/communication aspects of the engagement. As projects are defined and planned, the personnel resources are identified and allocated to the project. A communications schedule will be defined, and the Lockstep team will meet as required (minimum of weekly for our internal team). Customer update schedules will be defined as a regular event to be handled by the project manager and the services delivery manager.

c. Field Procedure

Lockstep field procedures rely on a solidified plan derived by the project teams. The coordination phase will define what type of resource is needed and will deliver a timeline of the project and its progression. Between the project manager and services delivery engineer, the field team will have a “roadmap” of what needs to be accomplished to conduct a successful project/implementation. Tasks are tracked closely by the project manager. Items requiring a change to the project or deliverable will be addressed through a pre-defined change management process. Lockstep’s field engineers report to the services delivery manager who has overall responsibility for the quality of the project. A checklist is developed with any requirements or test procedures to ensure there is a complete delivery of all system objectives and totally meets customer expectations.

d. Costing

The “Lockstep Process” focuses on a transparent, effective and competitive project costing history, based upon years of experience in multiple HIGHER EDUCATION environments. Lockstep not only leverages historical projects as references but also market analysis to ensure appropriate costing models for given projects. Historically, Lockstep has accomplished the goal of providing effective and accurate project delivery within a defined budget. If a fixed fee estimate is agreed upon and the project remains within the agreed upon boundaries, Lockstep will deliver the project at or under the estimated timeframe and cost. A long history across many of the technical domains defined in the RFQ allows Lockstep to have key historical examples of projects closely related to most of the items. Lockstep also provides Georgia HIGHER EDUCATIONs with cost-effective pricing based upon the project complexity, skillset(s) required and timeframe to help control costs.

e. Valuation techniques for business requirements

Lockstep delivers successful services for multiple Georgia based College Systems on a continuing basis. This experience across many other College Systems has enabled Lockstep to understand best practices and effectiveness that benefits all customers. This includes:

- The realized benefit to the College System of the desired architecture /implementation/ analysis
- The ongoing support costs including maintenance and management of the architecture
- The skillsets required to provide ongoing support for the implementation
- Realized benefits to the College System to facilitate innovation or stability to the system
- Relevant life of the desired architecture
Lockstep will assess technology (currently deployed or desired) to ensure it is a fit across the metrics as outlined above. Lockstep partners with clients, many through long term multiyear relationships, allowing Lockstep to provide insight into the College’s architecture that helps drive the direction of desired or required technologies. An example of this is the Lockstep analytics platform that was developed to provide a view across all colleges proactively depicting things like slow logon events or high latency trends, ensuring a positive user experience. Through this “big data” analysis a focus can be recommended to proactively address problem areas where capacity or lack of proper implementation can be addressed. This provides a path to recommend pointed architecture/implementations/analysis to cost effectively address a system’s progression.

The selection criteria for product or architecture recommendations are from an agnostic engineering perspective. Often, Lockstep can provide multiple ways to address the requirement, including a no cost alternative in addition to multiple paid-for products or architectures. This best of breed, technology agnostic approach ensures the clients are able to select the best solution to meet their needs and budgets. Lockstep will also recommend products or architectures that are not part of the current Lockstep product offering but are the right solution. For any product or architecture recommendation, the process below is followed:

- The product/architecture must meet the customer’s minimum requirements with the potential to exceed them over time.
- The product/architecture must have a good vendor support structure or Lockstep needs to support it directly for the customer.
- The ongoing costs associated with keeping the product/architecture must be well defined and within reasonable ongoing support costs.
- The solution must be relevant over the desired period defined by the customer.

f. How Lockstep defines the Statement of Work

Lockstep utilizes its 11-year history working with College Systems and corporate customers to define the items for a statement of work. The SOW approach is to:

Identify the requirements through a request or a co-developed concept or requirement.
Justify the requirement in terms of:

- Relevancy as a solution considering how the solution fits into the College System’s operational requirement.
- The ability of the College System to support the solution through the existing technical support staff, as augmented by Lockstep or through a managed service.
- The cost to acquire and support the solution over the period of relevancy.
- The desired lifecycle of the solution.
- Testing/success criteria definition.

After gathering the required data and ensuring it is a fit for the College System, Lockstep will determine which resources will be required based on skillsets, delivery restrictions/requirements and support requirements after the implementation. Lockstep is flexible based upon customer’s requirements and can provide Statement of Works for either fixed-fee or time and materials engagements.
GEOGRAPHIC COVERAGE

ALJPA Requirement:

Map with an indication of the locations where products may be delivered plus the number and type of support personnel or other resources that may be employed to service procuring entity purchase orders (a very basic example map for a fictitious company is provided in Appendix B). The narrative in response to this specification should include, at a minimum, a general overview of the proposed services and an overview of how the services are to be provided in the locations indicated.

Lockstep Response:

Lockstep is headquartered in Duluth, GA and has satellite offices in Kennesaw, GA and Chelsea, AL. 18 employees report to the Duluth office including all management, administrative, and sales staff. Quoting, purchasing, invoicing, and reporting generates from this office. The Duluth office is also a location where equipment can be delivered for staging and configuration and houses our Network Operations Center (NOC) that supports our managed services customers.

Our Kennesaw Satellite office location houses Lockstep’s professional services engineers and marketing staff. Lockstep has a robust engineering staff of 21 that continues to grow on a regular basis. Many of our engineers assist customers remotely from the Kennesaw office, but habitually travel to customer sites as well. The Kennesaw office is another site where equipment can be delivered for staging and configuration.

Our Alabama office is a location where remote services and equipment staging and configuration can occur.

The following page includes maps highlighting each location.
**PROBLEM RESOLUTION**

**ALJPA Requirement:**

Vendors must thoroughly describe their procedures for resolving customer problems and complaints including timelines and escalation measures.

**Lockstep Response:**

Lockstep Technology Group will provide a project manager that will be assigned to per project conducted with an ALJCA college. This individual will coordinate support through the Lockstep Technology Group engineering team and the equipment manufacturer for timely resolution of all support issues. ALJCA will also have a designated email address to which they may send both sales and support requests. Lockstep has a core value of responsiveness that has been a trademark of our 10+ years in business. We will provide a quick escalation path for problem resolution within three business days if issues arise.
If SLA’s are not being met, the following procedures will ensure timely resolution:

1. Notification to ACCS assigned Project Manager: ACCS may contact the project manager with written details regarding current issues and project milestones for which SLAs are not being meet. The ACCS assigned project manager will then have 24 hours to respond with a plan to resolve the issues and implement a remediation plan.

2. Notification to Lockstep Engineering Manager: If the ACCS assigned project manager is unable to provide a satisfactory remediation plan after 24 hours, ACCS may contact a Lockstep Engineering Manager. The Engineering Manager will coordinate between the Lockstep Project Manager and the ACCS project team to ensure proper tactical steps are taken to realign the project to resolve all issues based on the remediation plan.

In the unlikely event that the ACCS assigned Project Manager and Engineering Manager are unable to provide a satisfactory remediation plan within 3 business days, ACCS staff may contact a Lockstep Managing Partner who will setup an onsite meeting with Lockstep and ACCS staff to define an action plan for issue resolution and remediation.

**CUSTOMER SATISFACTION**

**ALJPA Requirement:**

Vendors must submit customer satisfaction statistics or survey results concerning the quality of the products and/or services offered.

**Lockstep Response:**

Throughout Lockstep’s 10+ years in business, we have a track record of retaining 85% of current customers. 87% of Lockstep customers have continued to do business with us for over 5 years.
VALUE ADDED SERVICES

ALJPA Requirement:

Vendors must thoroughly describe their ability to provide value added technical services including:

- Installation, Training or directly related optional services
- Geographic area where the services may be provided

Lockstep Response:

Lockstep prides itself on maintaining a well-rounded group of engineering talent. The approach is to cross-train all engineers on regular architectures like virtualization, storage, Active Directory, etc. Lockstep maintains a hierarchy of senior engineers that function as service delivery engineers. The field engineers report to a senior engineer for all projects. Expertise is outlined in the table below based upon Lockstep’s experience. These services can be performed in the state of Alabama.

| MICROSOFT |

<table>
<thead>
<tr>
<th>1. IDENTITY MANAGEMENT</th>
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<tbody>
<tr>
<td><strong>Supported Functions</strong></td>
</tr>
<tr>
<td>• System planning and design</td>
</tr>
<tr>
<td>• Multifactor authentication implementation</td>
</tr>
<tr>
<td>• ADFS to O365 Migration</td>
</tr>
<tr>
<td>• Public cloud and on-prem deployment</td>
</tr>
<tr>
<td>• Staff/student account management automation</td>
</tr>
<tr>
<td>• Staff training and end user education</td>
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<tr>
<td><strong>Summary</strong></td>
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<tr>
<td>Experience with multiple large education clients in planning and implementing ADFS on premise and in the cloud and migrating ADFS to O365.</td>
</tr>
<tr>
<td>Enabling campus-wide multifactor authentication on premise and in O365 with group-based licensing, connections to Azure AD, and text/phone/app password creation.</td>
</tr>
<tr>
<td>Robust account management practice with highly efficient automated account provisioning and deprovisioning.</td>
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**References:**
2. **Office 365 Applications (Including Email)**

| Supported Functions | Mail flow planning and design  
|                     | Phased, seamless exchange migrations  
|                     | Managed as a service  
|                     | Security center configuration  
|                     | Spam rule migration  
|                     | Licensing automation  
|                     | Training  

**Summary**

Lockstep has extensive experience migrating large education and distributed environments from Exchange to O365 using a phased approach with systematic shifting of resources and users with ongoing testing and communication with users regarding changes to the mail system.

Lockstep engineers ensure that firewall, networking, and spam rules are carefully configured to maximize security and performance.

**References:**

Marietta City Schools - O365 Migration. January 2018  
Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

Cartersville City Schools - Enterprise Application in Azure AD. 2017/Ongoing  
Kristy Hovers, khovers@cartersvilleschools.org, (770) 387-5571

City of Smyrna - O365 Migration. October 2018  
Chris Addicks, caddicks@smyrnaga.gov, (678) 631-5523

Atlanta Housing Authority - O365 Exchange, SharePoint, OneDrive, and Teams. July 2018.
3. **INTUNE**

**Supported Functions**
- System planning and design
- Implementation
- Public cloud deployment
- Managed as a service
- Policy planning
- User Portal Development
- Best practice analysis
- Preproduction testing
- Training

**Summary**
Lockstep is experienced in completely configuring and deploying Intune in education environments, including cloud deployments.

Lockstep's Intune implementation includes working with on-site personnel to develop organizational groups, device profiles, compliance policy rules and remediation, and custom user portals.

Critically, Lockstep trains IT staff on Intune management and ongoing support including password policies, device wiping, and deploying to new devices as needed.

**References:**

Tim Faircloth, tim.faircloth@gsu.edu, (229) 931-5076

4. **AZURE**

**Supported Functions**
- System planning and design
- Cloud server/storage sizing
- OPEX/CAPEX calculations and analysis
- Implementation
- Datacenter to cloud migration
- Workload migration automation
- Automated Vnet provisioning
- Business continuity/DR infrastructure


<table>
<thead>
<tr>
<th>Summary</th>
<th>•Managed as a service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lockstep performs work in Azure including supporting complicated and large environments. Lockstep performs cloud migration road mapping including detailed cost analysis for determining when cloud infrastructure is economically beneficial.</td>
<td></td>
</tr>
<tr>
<td>Lockstep has developed migration plans and custom automations for moving very large customer facing environments into colocation facilities including all new virtualization systems and the replication of all data.</td>
<td></td>
</tr>
<tr>
<td>Lockstep has connected colocations to Azure using ExpressRoute, enabling a private connection instead of using IPsec.</td>
<td></td>
</tr>
<tr>
<td>Lockstep performs cloud migration assessments to determine what cloud services will meet the client's budget by mapping server to server relationships, workloads and application relationships (AppStacks) and determining the average spend based upon the relationships to run the workloads in the various cloud providers (Azure, Amazon and Google)</td>
<td></td>
</tr>
</tbody>
</table>

**References:**

Telular - Datacenter to Azure Migration with ExpressRoute. 2016/Ongoing  
Vic Elarde, velarde@telular.com, (312) 379-8314

Kevin Schmidt, kschmidt@ggc.edu, (678) 407-5301

Tim Berger, tberger@waltoncommunities.com, (678) 424-5424

5. **SCCM**

| Supported Functions | •System planning and design  
|                     | •Implementation  
|                     | •Public and private cloud deployment  
|                     | •Managed as a service  
|                     | •Optimization  
|                     | •Advanced automation  
|                     | •Upgrades and patching  
|                     | •Training |
Summary

Lockstep has experience with multiple large education clients in planning and implementing SCCM to manage thousands of endpoints consisting of multiple domains, user types, and operating systems.

Lockstep has the ability to package drivers, applications, thick and light client images, certificates, and updates/patches for Windows and Office.

Advanced services include deploying SCCM in the cloud, on-prem/cloud hybrid deployments, and advanced automation.

SCCM services can be offered as a service and training for IT staff in SCCM is available.

References:

Tim Faircloth, tim.faircloth@gsu.edu, (229) 931-5076

Buford City Schools - SCCM Deployment, June 2015.
Jason Downs, jason.downs@bufordcityschools.org, (770) 945-5035

Forsyth County School System - SCCM Deployment, Training, As-a-Service. November 2017/Ongoing
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

Cartersville City Schools - SCCM Deployment, Training, As-a-Service. 2016/Ongoing
Kristy Hovers, khovers@cartersvilleschools.org, (770) 387-5571

6. GROUP POLICY

- Analyze current GPOs and make recommendations for modification, addition or optimization
- Help more centrally configure systems to be more secure or manageable
- Provide architectures using Windows Firewall and GPO for management to help provide a cost-effective segregation systems for data protection
- Utilize GPO to lock down desktops and servers helping to enhance the security posture
- Create software deployment/restriction policies
- Provide the analysis through our Analytics product to make optimization recommendations to enhance end-user experience
- Created custom GPO policies (.adm/.admx files) when needed to help administer an environment

Lockstep is uniquely capable of managing the high number of policy settings that come with educational IT.

Lockstep has performed cleanup and analysis for clients with unused or misapplied policies. Lockstep assists our education clients in automating what would otherwise be the impossible task of effectively managing policy settings.

Carefully managing user accounts and group policies also functions as an important step in securing a school's network from potential hacks.

**References:**

Jay Smith, Jay.Smith@hallco.org, (770) 534-6313

Marietta City Schools - Project work. Ongoing
Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

Atlanta Public Schools - 2016/Ongoing
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

### 7. SQL

**Supported Functions**

- System planning and design
- Implementation
- Public cloud deployment
- Always-on cluster deployment
- Managed as a service
- Server tuning and performance optimization
- Advanced automation
- Data continuity, including point-in-time recovery
- Training

Lockstep has performed SQL migrations from on-premise to public cloud. Lockstep has also configured HA clustering for reliability and availability of databases in case of failure. Through our managed services we provide the care and feeding required to maintain a working system state.
8. SHAREPOINT

**Supported Functions**
- System planning, design, and implementation strategy
- SharePoint site development
- Policy and permission configuration
- File tracking and control hierarchies and permissions configuration
- SharePoint audit systems

**Summary**
Lockstep works with clients to use SharePoint for document management and storage as well as an informative tool for disseminating information to key user groups.

Lockstep specialists assist in developing SharePoint sites with elements such as calendars, company directories, FAQs, announcements, training information, and other desired information sources.

Lockstep can configure policies for controlling file access, file moves, and company surveys.

Lockstep also provides final-mile training of end users, which can be particularly useful when implementing new technologies such as SharePoint lists or policies such as onedrive storage spaces.

**References:**
Bobby Clark, bobby.clarke@wctel.com, (864) 446-9270

Atlanta Housing Authority - O365 Exchange, SharePoint, OneDrive, and Teams. July 2018.
David Hudson, David.Hudson@atlantahousing.org, (404) 817-7439

9. BUSINESS INTELLIGENCE

**Supported Functions**
- IT analytics dashboard development
- Security monitoring dashboards
- Performance monitoring
**Summary**

Lockstep has experience developing IT analytics dashboards and data using Microsoft PowerBI.

This includes developing Microsoft SQL databases for data ingestion and repository along with customer dashboards designed to highlight business level analysis related to IT operations, security, and performance monitoring.

**References:**

Forsyth County School System - IT Operations Analytics. May 2018
Curt Godwin, cgodwin@forsyth.k12.ga.us, (770) 757-6477

Atlanta Public Schools - Networking Performance Analytics. June, 2018
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

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.GOOOGLE

1. **GOOGLE APPS FOR EDUCATION**

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Ad hoc support in existing education customer environments</td>
</tr>
</tbody>
</table>

**Summary**

Lockstep works with education clients including multiple large and small school districts and higher education facilities across the state of Georgia.

As part of our regular support of our clients we are often tasked with working with and around Google Apps for Education.

Lockstep's breadth of experience in a diverse range of educational IT environments contributes to our ability to work with Google applications.

**References:**

Marietta City Schools - Operational support. Ongoing
Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

---

2. **YOUTUBE**

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Granular video whitelisting</td>
</tr>
<tr>
<td>• Firewall-level student access control</td>
</tr>
</tbody>
</table>

**Summary**

Lockstep has worked with education clients to implement complex firewall level controls for schools so that YouTube can be used as an education tool.
References:

Marietta City Schools - Operational support. Ongoing
Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

Ware County Schools – Operational support Ongoing
Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142

3. Chrome

Supported Functions

• Group policy management
• Chrome Enterprise deployment and configuration
• Always on VPN configuration and management
• Deployment of Chrome OS

Summary

Lockstep has worked to deploy and integrate Chrome OS, into our education client’s environment securely. This allows for our education customers to have the same level of access and control, with a limited operating system.

References:

Ware County Schools – Chromebook Deployment June 2016
Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142

Madison County Board of Education – Palo Alto and Chromebook Deployment. July 2018
Amy Denman, adenman@madison.k12.ga.us, (706) 795-5029

VMware

1. Virtualization Platform

Supported Functions

• System planning and design
• Implementation
• Public cloud deployment
• Always-on cluster deployment
• Managed as a service
• Server tuning and performance optimization
## Summary

- Advanced automation
- Data continuity, including point-in-time recovery
- Training

Virtualization including VMware ESX infrastructure is the foundation of almost every project that Lockstep undertakes.

Lockstep engineers hold advanced certifications in various applicable VMware products and are cross-trained to enable seamless project completion.

Lockstep manages virtualization infrastructures including compute and storage as a service and as regular project work.

Lockstep provides ongoing support for on-premises and cloud deployments across multiple educational IT environments

### References:

- **Atlanta Public Schools** - Troubleshooting and ongoing support. Ongoing  
  Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

- **Cartersville City Schools** - As-a-Service. Ongoing  
  Kristy Hovers, khovers@cartersvilleschools.org, (770) 387-5571

- **Marietta City Schools** - Project work. Ongoing  
  Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

- **Forsyth County School System** - vSAN managed as-a-Service. Ongoing  
  Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

### NSX / SOFTWARE DEFINED NETWORKING

<table>
<thead>
<tr>
<th>Supported Functions</th>
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</thead>
<tbody>
<tr>
<td>VMware NSX Certified</td>
</tr>
<tr>
<td>NSX-certified engineers on staff</td>
</tr>
</tbody>
</table>

**Summary**  
Lockstep has been involved with NSX since its launch. We have obtained all the requisite trainings and certifications to be NSX Certified by VMware.

### References:
### 3. AirWatch

<table>
<thead>
<tr>
<th>Supported Functions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Profile creation and management for multiple Exchange Active-sync deployments</td>
<td></td>
</tr>
<tr>
<td>• Device migration to new managed profiles</td>
<td></td>
</tr>
<tr>
<td>• Apple certificate registration</td>
<td></td>
</tr>
<tr>
<td>• Certificate-based authentication for user email</td>
<td></td>
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<tr>
<td>• Certificate authority template and auto registration configuration</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Lockstep configures, manages, and maintains AirWatch in two of the environments that we work in, including profile creation and management, device migration, certificate registration, and certificate-based authentication for user email.</td>
<td></td>
</tr>
</tbody>
</table>

**References:**

- Cartersville City Schools - As-a-Service. Ongoing  
Kristy Hovers, khovers@cartersvilleschools.org, (770) 387-5571

- The Georgia Lottery - Exchange and AirWatch Troubleshooting and Remediation May 2018  
Bill Tucker, btucker@galottery.org, (404) 215-5124

### NETWORK

#### 1. Process Improvements, Automation, Documentation

<table>
<thead>
<tr>
<th>Supported Functions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• System planning and design</td>
<td></td>
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<tr>
<td>• Infrastructure assessment and documentation</td>
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<tr>
<td>• Technology lifecycle management</td>
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<tr>
<td>• Implementation</td>
<td></td>
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<tr>
<td>• Managed as a service</td>
<td></td>
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<tr>
<td>• QoS testing and optimization</td>
<td></td>
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<tr>
<td>• Automated switch deployment</td>
<td></td>
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<tr>
<td>• Network business continuity planning</td>
<td></td>
</tr>
<tr>
<td>• Network monitoring and alerting</td>
<td></td>
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<tr>
<td>• Training</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Lockstep has built its K12 business over the past decade on the strength of our campus networking expertise.</td>
<td></td>
</tr>
</tbody>
</table>

Lockstep has guided multiple educational customers from initial IT Infrastructure Assessment to system planning to remediation and district-wide implementation.
Lockstep has multiple references for our exhaustive documentation and systematic approach to networking, including the integration and upgrade of heterogenous environments.

Lockstep provides final-mile networking services including customized network monitoring, alerting, and QoS optimization.

### References:

- **Ware County Schools - System Assessment.** June 2016
  Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142

- **Madison County Board of Education - Infrastructure Assessment and Redesign.** June 2018
  Amy Denman, adenman@madison.k12.ga.us, (706) 795-5029

- **Forsyth County School System - Infrastructure Assessment.** November 2017
  Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

- **Atlanta Public Schools - Networking Assessment.** August 2018
  Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

- **Buford City Schools - Infrastructure Assessment, April 2013**
  Jason Downs, jason.downs@bufordcityschools.org, (770) 945-5035

---

### 2. SYSTEMS INTEGRATIONS AND UPGRADES

<table>
<thead>
<tr>
<th>Supported Functions</th>
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</thead>
<tbody>
<tr>
<td>• System planning and design</td>
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<tr>
<td>• Infrastructure assessment and documentation</td>
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<tr>
<td>• Technology lifecycle management</td>
</tr>
<tr>
<td>• Implementation</td>
</tr>
<tr>
<td>• Managed as a service</td>
</tr>
<tr>
<td>• QoS testing and optimization</td>
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<tr>
<td>• Automated switch deployment</td>
</tr>
<tr>
<td>• Network business continuity planning</td>
</tr>
<tr>
<td>• Network monitoring and alerting</td>
</tr>
<tr>
<td>• Training</td>
</tr>
</tbody>
</table>

**Summary**

Lockstep has guided multiple educational customers from initial IT Infrastructure Assessment to system planning to remediation and district-wide implementation.
Lockstep's engineers have experience across a wide range of switching manufacturers and has completely implemented and manages networks including datacenter core switches, top of rack switches, routers, edge switches, and wireless infrastructure. Lockstep specializes in highly resilient networks and implements all integrations and upgrade with minimal impact to regular network operations.

Lockstep provides final-mile networking services including customized network monitoring, alerting, and QoS optimization.

References:

Forsyth County School System - district-wide switch refresh and upgrades. March 2016 - current
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

Atlanta Public Schools - Networking design and switch deployment. September 2018
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

Buford City Schools - district-wide switch refresh and upgrades. March 2013 - current
Jason Downs, jason.downs@bufordcityschools.org, (770) 945-5035

Marietta City Schools - Project work. Ongoing
Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

3. APPLICATION LOAD AND STRESS TESTING

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Virtual Desktop Stress Testing</td>
</tr>
<tr>
<td>• Network Analytics</td>
</tr>
</tbody>
</table>

Summary

Lockstep has experience with performing a variety of performance analytics including stressing testing of virtualization systems to support VDI or application delivery.

Additionally, Lockstep has developed custom K12 "end-user experience" analytics designed to monitor for system stress or misconfiguration that may result in end-user performance issues.

For example, Lockstep has developed a K12 district performance dashboard solution that allows school IT personnel to pinpoint login performance issues, Wi-Fi issues, desktop performance issues, application response failures, network latency issues at a desktop level, etc.

References:
### 4. ACTIVE DIRECTORY AND GROUP POLICY

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• System planning and design</td>
</tr>
<tr>
<td>• Authentication server design and implementation</td>
</tr>
<tr>
<td>• Managed as a service</td>
</tr>
<tr>
<td>• Policy planning</td>
</tr>
<tr>
<td>• Best practice analysis</td>
</tr>
<tr>
<td>• Multifactor authentication implementation</td>
</tr>
<tr>
<td>• ADFS to O365 Migration</td>
</tr>
<tr>
<td>• Public cloud and on-prem deployment</td>
</tr>
<tr>
<td>• Staff/student account management automation</td>
</tr>
<tr>
<td>• Staff training and end user education</td>
</tr>
</tbody>
</table>

**Summary**

Lockstep has experience with multiple large education clients in planning and implementing Active Directory on-premise and in the cloud and migrating ADFS to O365.

Enabling campus-wide multifactor authentication on premise and in O365 with group-based licensing, connections to Azure AD, and text/phone/app password creation.

Lockstep has written a complete, modular, PowerShell-based student provisioning system that we have deployed in most of our HIGHER EDUCATION accounts. The provisioning system integrates with most of the leading SIS package (Infinite Campus cloud/on-prem, Aspen…) and provides each school district with their own unique workflows and student AD account management.

**References:**

  Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

- Ware County Schools - Project work. June 2016/Ongoing
  Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142

- University System of GA Shared Services Center - Dot1x implementation. October 2016.
5. **NETWORK CONFIGURATION, MONITORING, REMEDIATION**

<table>
<thead>
<tr>
<th>Supported Functions</th>
<th>LOCKSTEP Technology Group</th>
</tr>
</thead>
</table>
| • System planning and design  
  • Infrastructure assessment and documentation  
  • Technology lifecycle management  
  • Managed as a service  
  • QoS monitoring and alerting  
  • Network business continuity planning  
  • Network monitoring and alerting  
  • NOC-based network support  
  • Custom network sensors  
  • Network monitor server load optimization  
  • Training | Duluth, GA 30096  
  • www.lockstepgroup.com |

**Summary**

Lockstep has extensive experience configuring and monitoring education networks. Lockstep has developed dozens of custom sensors for commercial network monitoring tools and has implemented system-wide network monitoring in multiple education IT environments.

**References:**

Craig Liggett, cliggett@bulloch.k12.ga.us, (912) 212-8660

Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

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**APPLICATIONS**

1. **SOFTWARE IMAGING AND PACKAGE DEPLOYMENT**

<table>
<thead>
<tr>
<th>Supported Functions</th>
<th>LOCKSTEP Technology Group</th>
</tr>
</thead>
</table>
| • System planning and design  
  • Implementation  
  • Public and private cloud deployment  
  • Managed as a service  
  • Optimization  
  • Advanced automation  
  • Upgrades and patching | Duluth, GA 30096  
  • www.lockstepgroup.com |
• Training

Summary

Lockstep has experience with multiple large education clients in planning and implementing SCCM to manage thousands of endpoints consisting of multiple domains, user types, and operating systems.

Lockstep has the ability to package drivers, applications, thick and light client images, certificates, and updates/patches for Windows and Office.

Advanced services include deploying SCCM in the cloud, on-prem/cloud hybrid deployments, and advanced automation.

SCCM services can be offered as a service and training for IT staff in SCCM is available.

References:

Tim Faircloth, tim.faircloth@gsw.edu, (229) 931-5076

Buford City Schools - SCCM Deployment, June 2015.
Jason Downs, jason.downs@bufordcityschools.org, (770) 945-5035

Forsyth County School System - SCCM Deployment, Training, As-a-Service. November 2017/Ongoing
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

Cartersville City Schools - SCCM Deployment, Training, As-a-Service. 2016/Ongoing
Kristy Hovers, khovers@cartersvilleschools.org, (770) 387-5571

2. PROCESS IMPROVEMENTS, AUTOMATION, DOCUMENTATION

• Student provisioning workflow documentation
• Stale account remediation.
• Automated scripting of account changes
• Automated account moves to follow students
• Automated account changes upon graduation, etc.
• Directory and/or home site creation
• Phased deployment with testing
### Summary

Lockstep has organically developed a dev-ops approach to process improvement and documentation that incorporates deep system knowledge with an advanced usage of scripting technologies such as PowerShell.

This approach allows Lockstep to quickly and efficiently support very large environments with complicated needs.

Lockstep's automation prowess plays a key role in all of our K12 projects, including network implementation, firewall migrations, and user account management.

### References:

- Hall County Board of Education - Student provisioning. November 2013.
  Jay Smith, Jay.Smith@hallco.org, (770) 534-6313

- Marietta City Schools - Student provisioning. Ongoing
  Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

### 3. WORKFLOW CREATION/IMPROVEMENT/MIGRATION/RETIREMENT

#### Supported Functions

- Student provisioning workflow documentation
- Stale account retirement.
- Automated scripting of account changes
- Automated account moves to follow students
- Automated account changes upon graduation, etc.
- Directory and/or home site creation
- Phased deployment with testing

#### Summary

Lockstep is uniquely capable of managing the sheer number of users that come with educational IT.

Lockstep has performed cleanup for clients with tens of thousands of stale accounts and assists our education clients in automating what would otherwise be the impossible task of effectively managing tens of thousands of user accounts as students move from school to school, leave the district, and/or graduate.

Carefully managing user accounts and group policies also functions as an important step in securing a school's network from potential hacks.

### References:

- Hall County Board of Education - Student provisioning. November 2013.
4. **TECHNICAL WRITING**

<table>
<thead>
<tr>
<th>Supported Functions</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>• In-depth and exhaustive documentation</td>
<td>Lockstep has multiple references for our exhaustive documentation and systematic approach to IT consultation. Each of our infrastructure/network and security assessments include detailed documentation with findings clearly outlined and remediation steps prioritized for quick response.</td>
</tr>
<tr>
<td>• End user and IT user targeted training and instructions</td>
<td>Lockstep can assist IT leadership with formulating 3 or 5 year plans, including accurate growth estimates and technology lifecycle considerations.</td>
</tr>
<tr>
<td>• Director-level IT roadmaps</td>
<td>Lockstep also provides training on new technologies, practices, policies and procedures as needed to assist with smooth implementation and maximum adoption.</td>
</tr>
<tr>
<td>• Prioritized action items for immediate remediation</td>
<td></td>
</tr>
<tr>
<td>• 3 year/5-year technology plan consulting and guidance</td>
<td></td>
</tr>
</tbody>
</table>

**References:**

  Tim Faircloth, tim.faircloth@gsu.edu, (229) 931-5076

- Madison County Board of Education - Infrastructure Assessment and Redesign. June 2018
  Amy Denman, adenman@madison.k12.ga.us, (706) 795-5029

- Forsyth County School System - Infrastructure Assessment. November 2017
  Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

- Atlanta Public Schools - Networking Assessment. August 2018
  Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868
5. **Collaboration and Productivity**

| Supported Functions |  
|---------------------|---
| • System planning, design, and implementation strategy  
| • SharePoint site development  
| • Policy and permission configuration  
| • File tracking and control hierarchies and permissions configuration  
| • SharePoint audit systems  

| Summary |  
|---------|---
| Lockstep works with clients to use SharePoint for document management and storage as well as an informative tool for disseminating information to key user groups.  
| Lockstep specialists assist in developing SharePoint sites with elements such as calendars, company directories, FAQs, announcements, training information, and other desired information sources.  
| Lockstep can configure policies for controlling file access, file moves, and company surveys.  

**References:**

  Bobby Clark, bobby.clarke@wctel.com, (864) 446-9270

- Atlanta Housing Authority - O365 Exchange, SharePoint, OneDrive, and Teams. July 2018.  
  David Hudson, David.Hudson@atlantahousing.org, (404) 817-7439

6. **Device Management**

| Supported Functions |  
|---------------------|---
| • System planning and design  
| • Implementation  
| • Public cloud deployment  
| • Managed as a service  
| • Policy planning  
| • User Portal Development  
| • Best practice analysis  
| • Preproduction testing  
| • Training  

| Summary |  
|---------|---
| Lockstep is experienced in completely configuring and deploying Intune in education environments, including cloud deployments.  

### Data Warehouse

#### 1. Analytics

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Analytics analysis and development</td>
</tr>
<tr>
<td>• Infrastructure capacity metric development</td>
</tr>
<tr>
<td>• Performance metric development</td>
</tr>
</tbody>
</table>

**Summary**

Lockstep has experience with performing a variety of performance analytics by leveraging data warehouse solutions along with BI tools including PowerBI and Tableau.

Additionally, Lockstep has developed custom K12 "end-user experience" analytics designed to monitor for system stress or misconfiguration that may result in end-user performance issues.

**References:**

Forsyth County School System - IT Operations Analytics. May 2018
Curt Godwin, cgodwin@forsyth.k12.ga.us, (770) 757-6477

Atlanta Public Schools - Networking Performance Analytics. June 2018
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

---

Lockstep's Intune implementation includes working with on-site personnel to develop organizational groups, device profiles, compliance policy rules and remediation, and custom user portals.

Critically, Lockstep trains IT staff on Intune management and ongoing support including password policies, device wiping, and deploying to new devices as needed.

**References:**

Tim Faircloth, tim.faircloth@gsu.edu, (229) 931-5076
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868
## PROJECT MANAGEMENT AND BUSINESS ANALYSIS

### 1. ENTERPRISE APPLICATION PROJECTS

<table>
<thead>
<tr>
<th>Supported Functions</th>
<th>Summary</th>
</tr>
</thead>
</table>
| • Analytics analysis and development  
• Infrastructure capacity metric development  
• Performance metric development | Lockstep has experience with performing a variety of performance analytics by leveraging data warehouse solutions along with BI tools including PowerBI and Tableau.  
Additionally, Lockstep has developed custom K12 "end-user experience" analytics designed to monitor for system stress or misconfiguration that may result in end-user performance issues. |

**References:**

- Forsyth County School System - IT Operations Analytics. May 2018  
  Curt Godwin, cgodwin@forsyth.k12.ga.us, (770) 757-6477
- Atlanta Public Schools - Networking Performance Analytics. June 2018  
  Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

### 2. NETWORK INFRASTRUCTURE PROJECTS

<table>
<thead>
<tr>
<th>Supported Functions</th>
<th>Summary</th>
</tr>
</thead>
</table>
| • System planning and design  
• Infrastructure assessment and documentation  
• Technology lifecycle management  
• Implementation  
• Managed as a service  
• QoS testing and optimization  
• Automated switch deployment  
• Network business continuity planning  
• Network monitoring and alerting  
• Training | Lockstep has guided multiple educational customers from initial IT Infrastructure Assessment to system planning to remediation and district wide implementation. |
Lockstep's engineers have experience across a wide range of switching manufacturers and has completely implemented and manages networks including datacenter core switches, top of rack switches, routers, edge switches, and wireless infrastructure.

Lockstep specializes in highly resilient networks and implements all integrations and upgrade with minimal impact to regular network operations.

Lockstep provides final-mile networking services including customized network monitoring, alerting, and QoS optimization.

References:

Forsyth County School System - district-wide switch refresh and upgrades. March 2016 - current
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

Atlanta Public Schools - Networking design and switch deployment. September 2018
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

Buford City Schools - district-wide switch refresh and upgrades. March 2013 - current
Jason Downs, jason.downs@bufordcityschools.org, (770) 945-5035

Marietta City Schools - Project work. Ongoing
Thomas Maxwell, tmaxwell@marietta-city.k12.ga.us, (678) 209-7573

3. IT SECURITY PROJECTS

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Security planning and strategy development</td>
</tr>
<tr>
<td>• Firewall configuration, migration, and best practice analysis/rule audit</td>
</tr>
<tr>
<td>• Web filtering configuration and training</td>
</tr>
<tr>
<td>• Security policy review</td>
</tr>
<tr>
<td>• Automated password management</td>
</tr>
<tr>
<td>• Multi-factor authentication configuration</td>
</tr>
<tr>
<td>• Roles based access control</td>
</tr>
<tr>
<td>• Executive security summaries with prioritized remediation recommendations</td>
</tr>
</tbody>
</table>

Summary

Lockstep has a fully-developed, dedicated security team including multiple CISSP-certified specialists who work with clients to design and implement security processes and procedures. For our public sections clients, including K12, Lockstep specializes in NIST assessments including NIST 800-171 and 800-53.
Lockstep's security specialists work within the framework of the existing environment to provide maximum security with minimum impact to user experience.

Lockstep also provides final-mile training of end users, which can be particularly useful when implementing new technologies such as multi-factor authentication or policies such as mandatory password changes.

References:

Dekalb County School System - IT Risk and Security Assessment. October 2016
Ken Marshall, ken_marshall@dekalbschoolsga.org, (678) 676-1000

Madison County Board of Education - Infrastructure Assessment and Redesign. June 2018
Amy Denman, adenman@madison.k12.ga.us, (706) 795-5029

Jay Smith, Jay.Smith@hallco.org, (770) 534-6313

Logan Carter, lecarter@jeffcityschools.org, (706) 367-2881

Forsyth County School System - IT Risk and Security Assessment. June 2015
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

Ware County Schools - System Assessment. June 2016
Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142

Atlanta Public Schools - IT Risk and Vulnerability Assessment. June 2015
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5386

4. IT OPERATIONAL HARDWARE DEPLOYMENT PROJECTS

Supported Functions

• System-wide infrastructure assessments
• Technology selection guidance
• POCs and technology bake offs
• Virtualization infrastructure design and implementation
• Storage sizing, system design, and implementation
• IT Infrastructure management as a service
• Firewall configuration and deployment
Cloud and hybrid cloud based deployments
IT 3 and 5 year plan consulting
Backup and recovery systems including offsite replication and failover

Lockstep prides itself in providing the best in enterprise-class IT infrastructure to our K12 clients. Our engineers have designed and implemented complete data center build outs including firewalls, load balancers, core switches, virtualization clusters, storage, and backup and recovery systems.

The datacenter is where all of Lockstep's areas of expertise and our valuable roster of cross trained and specialized engineers come together to deliver correctly sized, resilient, and effective IT infrastructure for education.

Lockstep works with our clients to build systems that stay within budget parameters and can be managed with limited staff.

Our engineers are experienced in multiple brands and technologies, enabling them to work effectively in any customer environment.

References:

Dekalb County School System- Backup and Recovery Infrastructure. September 2017
Ken Marshall, ken_marshall@dekalbschoolsga.org, (678) 676-1000

Ware County Schools - Servers, Storage, Firewall, Switching. 2012/Ongoing
Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142

Forsyth County School System - Servers, Storage, Hyperconverged, Firewalls, Switching, SIEM. 2011/Ongoing
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

Security

1. Network Security Processes and Procedures

Supported Functions

• Firewall configuration, migration, and best practice analysis/rule audit
• Web filtering configuration and training
• Security policy review
• Automated password management
• Multi-factor authentication configuration
• Roles based access control
• Executive security summaries with prioritized remediation recommendations
### Summary

Lockstep has a fully-developed, dedicated security team including multiple CISSP-certified specialists who work with clients to design and implement security processes and procedures.

Lockstep's security specialists work within the framework of the existing environment to provide maximum security with minimum impact to user experience.

Lockstep also provides final-mile training of end users, which can be particularly useful when implementing new technologies such as multi-factor authentication or policies such as mandatory password changes.

### References:

- **Dekalb County School System - IT Risk and Security Assessment.** October 2016  
  Ken Marshall, ken_marshall@dekalbschoolsga.org, (678) 676-1000

- **Madison County Board of Education - Infrastructure Assessment and Redesign.** June 2018  
  Amy Denman, adenman@madison.k12.ga.us, (706) 795-5029

- **Hall County Board of Education - Risk Assessment.** April 2017.  
  Jay Smith, Jay.Smith@hallco.org, (770) 534-6313

  Logan Carter, lcarter@jeffcityschools.org, (706) 367-2881

- **Forsyth County School System - IT Risk and Security Assessment.** June 2015  
  Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461

- **Ware County Schools - System Assessment.** June 2016  
  Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142

- **Atlanta Public Schools - IT Risk and Vulnerability Assessment.** June 2015  
  Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868

### 2. Audits Including Pen Testing and Vulnerability Assessments

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Comprehensive Security Assessments</td>
</tr>
<tr>
<td>• Penetration testing</td>
</tr>
<tr>
<td>• Ransomware risk analysis</td>
</tr>
<tr>
<td>• Policy analysis and best practice guidance</td>
</tr>
</tbody>
</table>
| **Summary** | Lockstep security assessments offer concise, targeted, and easy-to-implement security analysis that is designed to give you actionable insights into critical aspects of your organization’s security posture.  
Lockstep security services range from OSINT investigations to penetration testing to in-depth security assessments including site audits, personnel interviews, and comprehensive policy review.  
Lockstep has assisted multiple education clients with assessing their security posture and has assisted with technology selection and services for vulnerability remediation. |

| **References:** |

Dekalb County School System - IT Risk and Security Assessment. October 2016  
Ken Marshall, ken_marshall@dekalbschoolsga.org, (678) 676-1000  

Madison County Board of Education - Infrastructure Assessment and Redesign. June 2018  
Amy Denman, adenman@madison.k12.ga.us, (706) 795-5029  

Jay Smith, Jay.Smith@hallco.org, (770) 534-6313  

Logan Carter, lcarter@jeffcityschools.org, (706) 367-2881  

Forsyth County School System - IT Risk and Security Assessment. June 2015  
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461  

Ware County Schools - System Assessment. June 2016  
Dr. Dennis Wainwright, dwainwright@ware.k12.ga.us, (912) 283-8656 ext. 142  

Atlanta Public Schools - IT Risk and Vulnerability Assessment. June 2015  
Roanna Washington, rwashington@atlanta.k12.ga.us, (678) 467-5868
3. INCIDENT MANAGEMENT AND REMEDIATION

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Security incident response as-a-service</td>
</tr>
<tr>
<td>• Customized SLAs to meet customer requirements</td>
</tr>
<tr>
<td>• 24x7 NOC support</td>
</tr>
<tr>
<td>• Security incident response team</td>
</tr>
<tr>
<td>• Remediation professional services</td>
</tr>
<tr>
<td>• SIEM management as-a-service</td>
</tr>
<tr>
<td>• Standards compliant incident response procedures and documentation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>In addition to ad hoc work, Lockstep offers security services to our clients as retainer agreements and as a service. These agreements allow our clients predictable costs with the highest level of security excellence and allow access to highly trained and certified security experts.</td>
</tr>
<tr>
<td>Lockstep offers SIEM as-a-service to provide real-time analytics, logging, event correlation, and forensic analysis.</td>
</tr>
</tbody>
</table>

References:

Jay Smith, Jay.Smith@hallco.org, (770) 534-6313

Chaitanya Kancharana, chaitanya.kancharana@rhanet.org, (404) 968-2682

4. SECURITY CONFIGURATION, MONITORING, REMEDIATION

<table>
<thead>
<tr>
<th>Supported Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Firewall configuration, migration, and best practice analysis/rule audit</td>
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<td>• Web filtering configuration and training</td>
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<td>• Roles based access control</td>
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<td>• Executive security summaries with prioritized remediation recommendations</td>
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<tr>
<td>• SIEM management as-a-service</td>
</tr>
<tr>
<td>• Remediation professional services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Lockstep has a fully-developed, dedicated security team including multiple CISSP-certified specialists who work with clients to design and implement security processes and procedures.</td>
</tr>
</tbody>
</table>
Lockstep's security specialists work within the framework of the existing environment to provide maximum security with minimum impact to user experience. Lockstep also provides final-mile training of end users, which can be particularly useful when implementing new technologies such as multi-factor authentication or policies such as mandatory password changes.

Lockstep is particularly adept at configuring, deploying, and optimizing next-generation firewalls and security appliances in K12 environments. Lockstep's deep project experience means that firewalls are properly sized and correctly configured as efficiently as possible.

References:

Madison County Board of Education - Infrastructure Assessment and Redesign. June 2018
Amy Denman, adenman@madison.k12.ga.us, (706) 795-5029

Jay Smith, Jay.Smith@hallco.org, (770) 534-6313

Logan Carter, lcarter@jeffcityschools.org, (706) 367-2881

Forsyth County School System - IT Risk and Security Assessment. June 2015
Tim Fleming, tfleming@forsyth.k12.ga.us, (770) 887-2461
REPORTING

ALJPA Requirement:

Vendors must agree to provide quarterly utilization reports to the System based upon the schedule and minimum content as described in this request.

Quarterly reports must be submitted to The System Office to JPA-Notification@accs.edu. The electronic copy must be in the form of a PDF file. Vendors must describe their ability and commitment to meet this requirement and include a sample quarterly report with the bid response. The required report must be compiled and forwarded to the Joint Purchase Agreement Initiative Administrator within two weeks of the end of each quarter.

Vendors may count quarters either from the calendar (i.e., the end of March will be the end of the first quarter) or from the time we awarded you the bid (i.e., May 1 will be the end of the first quarter). An example of the required reporting format is included in Appendix C. Failure to provide the required report in the specified format could result in removal from the contract.

Vendors are encouraged to describe and include additional sample reports. Vendors are encouraged to describe other reporting capabilities such as electronic delivery of reports or direct access to Internet or other databases that may be used to administer the agreements or support marketing.

Lockstep Response:

Quarterly reporting is a part of Lockstep’s best practices. We provide monthly, quarterly, and yearly reports for our customers entailing product purchased, Professional and Managed services time detail reports, and invoicing details for both products and services. We use our CRM system, Connectwise, as our Professional Services Automation that encompasses our service delivery, product purchases, and financial reporting. We can request pro-active automated reports or create customized reports based on customer needs and specifications.

Sample Report below on PG. 43
<table>
<thead>
<tr>
<th>Invoice Date to Customer/End User</th>
<th>Invoice Number</th>
<th>Procuring Entity</th>
<th>Customer Order Number</th>
<th>Part Number</th>
<th>Item Description</th>
<th>Quantity</th>
<th>End User Unit Purchase Price</th>
<th>Extended End User Purchase Price</th>
<th>State Contract or Open Market</th>
<th>Manufacturer (example: Extreme Networks)</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>
**Electronics Commerce**

**ALJPA Requirement:**

Vendors must describe their ability to provide and maintain, at a minimum, an Internet website that contains the complete ESS as well as product specifications and options.

Vendors are encouraged to describe an existing capability or commitment to implement a website that would provide procuring entities guidance and assistance with product selection, purchase order tracking, reporting or other relevant capability. The ability or commitment to accept and process purchase orders electronically should be thoroughly described. Internet URL’s may be provided which reference sites that demonstrate the desired functionality.

**Lockstep Response:**

Process for Customer accessing the order tracker on Extreme Networks Orders:

1. Once PO is submitted to Lockstep, Lockstep will respond within 1 full business day acknowledging receipt of PO and providing customer with order status tracking number and URL for Order Tracking.

2. Once order is placed with distribution, Lockstep will set the customer up in MyOrderTracker.com

3. Customer will login to the following URL: [http://www.myordertracker.com/us/HomePage.aspx](http://www.myordertracker.com/us/HomePage.aspx) and use the order status tracking number to access their order.

4. If any changes need to be made, customer will inform Lockstep and Lockstep will make the changes to the order.

5. Estimated ship date, serial numbers, and tracking can all be accessed through the order tracker and will be provided by automated emailing system.

Currently there is no Electronic Commerce for Nutanix, but distribution has made a commitment to online order tracking and is in the process of developing an order tracking portal. This is the process for requesting order tracking for Nutanix Orders:

1. Once PO is submitted to Lockstep, Lockstep will respond within 1 full business day acknowledging receipt of PO and providing customer with order status tracking number.

2. Lockstep will provide order status including estimated ship date to customer within 3 days of order acknowledgement.
3. If any changes need to be made, customer will inform Lockstep and Lockstep will make the changes to the order.

4. Lockstep will proactively provide serials and tracking once order ships.
BREADTH OF OFFERING

ALJPA Requirement:

Vendors must, at a minimum, offer products or services in at least one of the following categories:


Lockstep Response:

Lockstep will provide offerings including Networking Equipment, Storage, Servers, Software, and Professional services.

ALJPA Requirement:

Vendors must provide a comprehensive list of the models or variations available in each of the following categories for which a vendor offers products:


Lockstep Response:

Lockstep will provide complete product line offerings for Extreme and Nutanix via each manufacturer’s price list. Lockstep provides services around both of these product lines as shown below.
ALJPA Requirement:

Vendors must provide, at a minimum, a licensed operating system with each type of processor, where applicable:


Lockstep Response:

All licenses are provided in price list.

ALJPA Requirement:

Vendors may propose and provide a wide range of the technical services including installation, training and technical support:


Lockstep Response:

Lockstep prides itself on maintaining a well-rounded group of engineering talent. The approach is to cross-train all engineers on regular architectures like virtualization, storage, Active Directory, etc. Lockstep maintains a hierarchy of senior engineers that function as services delivery engineers. The field engineers report to a senior engineer for all projects. Expertise is outlined in the table above based upon Lockstep’s experience. These services can be performed in the state of Alabama.

Expertise is outlined in the value-add services section of this RFP.
**Primary Account Representative**

**ALJPA Requirement:**

Vendors must identify by name and location both the proposed primary account representative and the marketing supervisor who will be responsible for the performance of the agreement. Any changes to this information must be immediately sent to the Joint Purchase Agreement Administrator.

**Lockstep Response:**

**Primary Account Representative:**

Charlie Van Pelt  
Vice President of Sales  
Lockstep Technology Group  
(404) 271-1138  
cvanpelt@lockstepgroup.com  
Located in Atlanta, Georgia

**Marketing Supervisor:**

Jason Satcher  
Business Support and Marketing Director  
Lockstep Technology Group  
(770) 505-9550  
jsatcher@lockstepgroup.com  
Located in Atlanta, Georgia
REFERENCES

ALJPA Requirement:

Vendors must submit three (3) references of entities of like size and complexity, and/or entities that have or are currently receiving similar products and services to those proposed by the vendor for this procurement. Each reference must include the name of the contact person, address, telephone number and description of products and services provided.

Lockstep Response:

<table>
<thead>
<tr>
<th>Forsyth County School System</th>
</tr>
</thead>
<tbody>
<tr>
<td>1120 Dahlonega Highway, Cumming, GA 30040</td>
</tr>
<tr>
<td>Curt Godwin, Network Operations Coordinator, (770) 887-2461, <a href="mailto:CGodwin@forsyth.k12.ga.us">CGodwin@forsyth.k12.ga.us</a></td>
</tr>
<tr>
<td>Dates of Engagement: 11/2011 – present</td>
</tr>
</tbody>
</table>

Description of Work:

- Performed network architecture and design for production and DR sites, including network core migration.
- Designed and implemented high availability project including recoverability at production and DR sites.
- Storage area network design, sizing, and implementation to support production and DR site replication.
- Redesigned District-wide network and wireless architecture to provide standardized platform, centralized management of inventory, backup configurations, and policy deployment using ExtremeSwitching, ExtremeWireless, and Extreme Management Center.
- Reviewed existing firewall policies and capabilities while projecting future bandwidth usage, user count, and application traffic in order to propose a next-generation firewall solution to service 40k+ users.
- Migrated the district from Fortigate firewalls with major performance issues and maxed-out throughput to Palo Alto Networks 5050 firewalls and later 7080 models.
- Configured and implemented Threat Prevention, URL Filtering, User ID, and SSL decryption along with Panorama management.
- Wrote Forsyth County Schools Cybersecurity Policies, Procedures, and Controls for a policy based on the NIST 800-171 Standard and created a control document so they could perform a self-assess compliance.

- Performed end-user optimization for application and network monitoring, allowing Forsyth County Schools to proactively monitor end-user experience.

- Consulted on proper sizing of logging/SIEM architecture to accommodate existing log volume. Configured and implemented customer alerts and reports.

- Lockstep performs managed services for Forsyth’s SCCM infrastructure, Backup and Replication services, and proactive network monitoring.

- Implemented a cyber security range that will provide students and staff with a high-fidelity training environment, offering a broad range of attack and defense scenarios.

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**Atlanta Public Schools**

130 Trinity Ave. SW, Atlanta, GA 30303

Roanna Washington, IT Security Director, (678) 467-5868,

rwashington@atlanta.k12.ga.us

Dates of Engagement: 08/2015 – present

**Description of Work:**

- Performed extensive data security assessment, including reviewing existing firewall policies and capabilities.

- Forecasted future needs taking into account projected bandwidth usage, user count, and application traffic. Scoped, architected, and proposed a Palo Alto Networks Next Generation Firewall to accommodate 55,000 users.

- Performed end-user experience optimization and implemented proactive application and network monitoring. This allowed APS IT staff to identify issues by measuring performance and end user experience, across their 50,000-student user base, 100 disparate sites, and thousands of endpoints. We were applying to implement this proactive solution for APS to pinpoint these application and network issues during the middle of APS’s testing cycle.
• Lockstep gave APS the ability to measure and manage end user experience ensures IT staff are able to meet district wide KPI and SLAs.

• Designed and implemented a highly available DNS, DHCP, and IPAM infrastructure. Reduced long term cost of BlueCat infrastructure. Improved recovery and resiliency, ensuring critical resource availability.

• Performed extensive network assessment, including reviewing existing network policies and capabilities.

• Performed network perimeter security assessment.

• Enhanced the ability to reduce the information risk, and provided a detailed path to resolving high risk security items

• Provided guidance regarding most effective and cost-effective hardware and software upgrade and provided comprehensive documentation of security best practices for system reference and future improvements.

Marietta City Schools

250 Howard Street, Marietta, GA 30060

Thomas Maxwell, IT Director, (770) 422-3500,

tmaxwell@marietta-city.k12.ga.us

Dates of Engagement: 10/2010 – present
Description of Work:

- Performed holistic system lifecycle management including a full system stabilization and migration of datacenter.
- Lockstep has performed services including Active Directory/Exchange/Office 365 migration, student provisioning automation, and centralization of all IT resources, virtualization of platforms.
- Additional services include firewall implementation and configuration, disaster recovery system implementation including a complete DR site, Mitel phone system implementation, and a full network migration for all schools.
- Designed and implemented full scale Extreme switching solution for all schools and sites within the school district. Replaced legacy 3COM solution with modern Extreme switching solution centrally managed by Extreme Management Center product.

Shared Services Center

1005 George J. Lyons Pkwy

Jake McNutt, IT Director, (478) 240-6500,

Jake.mcnutt@usg.edu

Dates of Engagement: 10/2010 – present

Description of Work:

- Lockstep worked with the SSC to plan, design, size, and build their data center to support HR Managed Systems to support 26 USG institutions.
- Lockstep designed the virtualization, storage, Active Directory domain, Exchange, database infrastructure, desktop environment, security, and network infrastructure.
- Lockstep also designed and built a disaster recovery site for SSC at Kennesaw State University, implementing a replication system from SSC’s datacenter to another with full recoverability.
- Lockstep also built an automated file transfer system for all USG employees for payroll and benefits.
Kennesaw State University
1000 Chastain Road, Bldg 35
Davide Gaetano, Technology Manager, (770) 423-6000,
dgaetano@kennesaw.edu
Dates of Engagement: 12/2011 – present

Description of Work:

- Lockstep has partnered with KSU for many years, including assisting with the merger of KSU’s and Southern Polytechnic University’s critical systems.
- Lockstep has built and hosted all of KSU’s voice infrastructure at Lockstep’s colocation facility with zero downtime over the past four years.
- Lockstep has designed a scalable “cookie cutter” network to allow for projected growth without adding complexity or instability to their network systems.
- Most recently, Lockstep has migrated Palo Alto Networks PA5000s to PA5200s and has replaced Cisco ASAs with PA800s, including firewall rule audits and cleanup.

Dekalb County School System

DCS is Georgia’s third largest school district serving nearly 102,000 students, 140 schools, and 15,000 employees. Lockstep has provided projects including engineering services (Risk and Security Assessments), as well as Disaster Recovery, backup and network monitoring.

**Lockstep Technology Group Customer Comparison**

<table>
<thead>
<tr>
<th>School District Name</th>
<th>Number of Schools</th>
<th>Number Full Time Employees</th>
<th>Number of Teachers</th>
<th>Number of Students</th>
<th>Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forsyth County Schools</td>
<td>39</td>
<td>6,000</td>
<td>2,500</td>
<td>49,300</td>
<td>7th Largest School District</td>
</tr>
<tr>
<td>Dekalb County Schools</td>
<td>40</td>
<td>15,500</td>
<td>6,600</td>
<td>102,000</td>
<td>3rd Largest School District</td>
</tr>
<tr>
<td>Atlanta Public Schools</td>
<td>89</td>
<td>8,500</td>
<td>4,000</td>
<td>52,000</td>
<td>6th Largest School District</td>
</tr>
</tbody>
</table>
ALJPA Requirement:

Vendors must submit with their responses a narrative that describes the baseline (published) pricing and the initial pricing level discount that is proposed, by product class or category in the ESS. The response to this specification is expected to be in the form of a percentage discount from a published, baseline price listing. Vendors must describe the baseline pricing and provide information where the baseline pricing may be accessed and verified. Firm Price – Initial quoted discount levels must remain constant throughout the term of this agreement, subject only to subsequent increased discount amounts.

Lockstep Response:

Lockstep will guarantee that all pricing is at or below published price schedules. This will ensure that manufacturer price drops and discounts are continually passed along to Alabama Community College System. Wherever possible, discounts percentages provided on this proposal will be maintained (or better where possible) by Lockstep Technology Group throughout the contract lifecycle.

Pricing off list is based on previous state contracts has been accepted by other government and school entities.

Extreme Networks

- Product, Software and Licenses @ 47% off published list price (Network Hardware, Network Software, Networking Licenses)
- Cables @ 5% off published list price
- Support @ 6% off published list price

Extreme Networks’ MSRP price list will be available to ALJPA members as a base price source. ACCS members may also request a copy of the price list at the following website:

Nutanix

- Appliance platforms including hardware, software, and support options available with the appliance platform will be discounted at minimum of 12% off Nutanix’s price list.

- Nutanix services will be discounted at a minimum of 6% off Nutanix’s price list.

Lockstep Technology Group’s Engineering Services

<table>
<thead>
<tr>
<th>CATEGORY: Engineering Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSITION TYPE</td>
</tr>
<tr>
<td>Onsite Senior Systems Engineer</td>
</tr>
<tr>
<td>Remote Senior Systems Engineer</td>
</tr>
<tr>
<td>Project Manager</td>
</tr>
<tr>
<td>Remote Project Manager</td>
</tr>
<tr>
<td>Security Services Engineer</td>
</tr>
</tbody>
</table>

Complete price lists for Extreme Networks and Nutanix are available via the included USB drive.
**TECHNICAL SUPPORT**

**ALJPA Requirement:**

The vendor agrees to maintain a toll-free technical support telephone line. The line shall be accessible to procuring entity personnel who wish to obtain competent technical assistance regarding the installation or operation of products supplied by the vendor.

**Lockstep Response:**

Lockstep maintains a 24/7 technical support call down line, the number to dial is (800) 918-6520.

**WEBSITE MAINTENANCE**

**ALJPA Requirement:**

Vendor agrees to maintain and support an Internet website for access to the ESS, configuration assistance, product descriptions, product specifications and other aids in accordance with instructions provided by the contract. In addition, vendor may provide electronic commerce assistance for the electronic submission of purchase orders, purchase order tracking and reporting.

**Lockstep Response:**

Process for Customer accessing the order tracker on Extreme Networks Orders:

6. Once PO is submitted to Lockstep, Lockstep will respond within 1 full business day acknowledging receipt of PO and providing customer with order status tracking number and URL for Order Tracking.

2. Order status tracking number will be our PO number to distribution.

7. Once order is placed with distribution, Lockstep will set the customer up in MyOrderTracker.com

8. Customer will login to the following URL: [http://www.myordertracker.com/us/HomePage.aspx](http://www.myordertracker.com/us/HomePage.aspx) and use the order status tracking number to access their order.

9. If any changes need to be made, customer will inform Lockstep and Lockstep will make the changes to the order.
10. Estimated ship date, serial numbers, and tracking can all be accessed through the order tracker and will be provided by automated emailing system.

SAMPLE ORDERING REPORT AND SHIPPING/TRACKING INFO

<table>
<thead>
<tr>
<th>LINE NUMBER</th>
<th>QUANTITY ORDERED</th>
<th>QUANTITY RELEASED</th>
<th>QUANTITY BACKORDERED</th>
<th>AVAILABLE SHIP DATE</th>
<th>ETS DATE</th>
<th>ACTUAL SHIP DATE</th>
<th>SHIP VIA</th>
<th>WAREHOUSE</th>
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<tbody>
<tr>
<td>1)</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>2012-03-26</td>
<td></td>
<td>FEDX GRND</td>
<td>Miami</td>
<td></td>
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<tr>
<td>Mr# F2N025-06</td>
<td></td>
<td></td>
<td></td>
<td>BELKIN COMPONENTS Belkin PRO Series - Display cable - HD-15 (M) - HD-15 (M) - 6 ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2)</td>
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<td>Miami</td>
<td></td>
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<tr>
<td>Mr# BN0011</td>
<td></td>
<td></td>
<td></td>
<td>CREATIVE LABS AUDKGY 2 NX SND CRD</td>
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</table>

**BUNDLE COMPONENTS**

<table>
<thead>
<tr>
<th>MFR PART#</th>
<th>QTY. ORD.</th>
<th>QTY. SHIPPED</th>
<th>QTY. B.O.</th>
<th>AVAILABLE SHIP DATE</th>
<th>ETS DATE</th>
<th>ACTUAL SHIP DATE</th>
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<tr>
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<tr>
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<td>2012-03-26</td>
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<tr>
<td>Mr# WL048AT</td>
<td></td>
<td></td>
<td></td>
<td>ATI FIREPRO V3800 512MB VIDADPT PCIE SBY</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>N/A</td>
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</tr>
<tr>
<td>Mr# FX065UT</td>
<td></td>
<td></td>
<td></td>
<td>HP 1GB (1X1GB) DDR3-1333 ECC MEMORY SBY</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If you do not want to receive any future notifications from this service please click here
**VENDOR DISCLOSURE STATEMENT**

**ALJPA Requirement:**

Act 2001-955 requires the disclosure statement to be completed and filed with all proposals, bids, contracts, or grant proposals to the State of Alabama in excess of $5,000. In circumstances where a contract is awarded by competitive bid, the disclosure statement shall be required only from the person receiving the contract and shall be submitted within ten (10) days of the award.

**Lockstep Response:**

Lockstep will complete and file the disclosure statement within 10 days, if awarded contract.